

## ДОДАТОК А. FrontCode

### 1. App.js

```
import { Button, Space } from 'antd';
import './stylesheets/theme.css';
import './stylesheets/alignments.css';
import './stylesheets/textelements.css';
import './stylesheets/custom-components.css';
import './stylesheets/form-elements.css';
import './stylesheets/layout.css';
import { Routes, Route, BrowserRouter } from 'react-router-dom';
import Login from './pages/common/Login';
import Register from './pages/common/Register';
import ProtectedRoute from './components/ProtectedRoute';
import Home from './pages/common/Home';
import Exams from './pages/admin/Exams';
import AddEditExam from './pages/admin/Exams/AddEditExam';
import Loader from './components/Loader';
import { useSelector } from 'react-redux';
import WriteExam from './pages/user/WriteExam';
import UserReports from './pages/user/UserReports';
import AdminReports from './pages/admin/AdminReports';
```

```
function App() {
  const { loading } = useSelector(state => state.loader)
  return (
    <>
      {loading && <Loader />}
      <BrowserRouter>
        <Routes>
          {/* Common Routes */}
          <Route path="/login" element={<Login />} />
          <Route path="/register" element={<Register />} />

          {/* User Routes */}
          <Route
            path="/"
            element={
              <ProtectedRoute>
                <Home />
              </ProtectedRoute>
            }
          />
          <Route
            path="/user/write-exam/:id"
```

```
    element={
      <ProtectedRoute>
        <WriteExam />
      </ProtectedRoute>
    }
  />
<Route
  path="/user/reports"
  element={
    <ProtectedRoute>
      <UserReports />
    </ProtectedRoute>
  }
/>
{/* Admin Routes */}
<Route
  path="/admin/tests"
  element={
    <ProtectedRoute>
      <Exams />
    </ProtectedRoute>
  }
/>
<Route
  path="/admin/exams/add"
  element={
    <ProtectedRoute>
      <AddEditExam />
    </ProtectedRoute>
  }
/>

<Route
  path="/admin/exams/edit/:id"
  element={
    <ProtectedRoute>
      <AddEditExam />
    </ProtectedRoute>
  }
/>
<Route
  path="/admin/reports"
  element={
    <ProtectedRoute>
      <AdminReports />
    </ProtectedRoute>
  }
}
```

```
    />
  </Routes>
</BrowserRouter>
</>
);
}
```

```
export default App;
```

## 2. exam.js

```
import axios from "axios";
```

```
const { default: axiosInstance } = require(".");
```

```
// add test
```

```
export const addExam = async (payload) => {
  try {
    const response = await axiosInstance.post("/api/exams/add", payload);
    return response.data;
  } catch (error) {
    return error.response.data;
  }
};
```

```
// get all tests
```

```
export const getAllExams = async () => {
  try {
    const response = await axiosInstance.post("/api/exams/get-all-exams");
    return response.data;
  } catch (error) {
    return error.response.data;
  }
};
```

```
// get test by id
```

```
export const getExamById = async (payload) => {
  try {
    const response = await axiosInstance.post("/api/exams/get-exam-by-id", payload);
    return response.data;
  } catch (error) {
    return error.response.data;
  }
};
```

```
//edit test by id
```

```
export const editExamById = async (payload) => {  
  try {  
    const response = await axiosInstance.post("/api/exams/edit-exam-by-id", payload)  
    return response.data;  
  } catch (error) {  
    return error.response.data;  
  }  
}
```

```
//delete test by id
```

```
export const deleteExamById = async (payload) => {  
  try {  
    const response = await axiosInstance.post("/api/exams/delete-exam-by-id", payload);  
    return response.data;  
  } catch (error) {  
    return error.response.data;  
  }  
}
```

```
// add question to test
```

```
export const addQuestionToExam = async (payload) => {  
  try {  
    const response = await axiosInstance.post("/api/exams/add-question-to-exam", payload);  
    return response.data;  
  } catch (error) {  
    return error.response.data;  
  }  
}
```

```
export const editQuestionById = async (payload) => {  
  try {  
    const response = await axiosInstance.post("/api/exams/eddit-question-in-exam", payload);  
    return response.data;  
  } catch (error) {  
    return error.response.data;  
  }  
}
```

```
export const deleteQuestionById = async(payload) => {  
  try {  
    const response = await axiosInstance.post("/api/exams/delete-question-in-exam", payload);  
    return response.data;  
  } catch (error) {  
    return error.response.data; }};
```

### 3. apicalls → index.js

```
import axios from 'axios';
```

```
const axiosInstance = axios.create({
  headers: {
    Authorization : `Bearer ${localStorage.getItem('token')}`
  }
})
```

```
export default axiosInstance;
```

### 4. reports.js

```
const { default: axiosInstance } = require(".");
```

```
//add report
```

```
export const addReport = async(payload) => {
  try {
    const response = await axiosInstance.post("/api/reports/add-report", payload);
    return response.data;
  } catch (error) {
    return error.response.data;
  }
}
```

```
// get all reports
```

```
export const getAllReports = async(filters) => {
  try {
    const response = await axiosInstance.post("/api/reports/get-all-reports", filters);
    return response.data;
  } catch (error) {
    return error.response.data;
  }
}
```

```
//get all reports by user
```

```
export const getAllReportsByUser = async() => {
  try {
    const response = await axiosInstance.post("/api/reports/get-all-reports-by-user");
    return response.data;
  } catch (error) {
    return error.response.data;
  }
}
```

#### 4. user.js

```
const { default: axiosInstance } = require(".");

export const registerUser = async (payload) => {
  try {
    const response = await axiosInstance.post('/api/users/register', payload);
    return response.data;
  } catch (error) {
    return error.response.data;
  }
}

export const loginUser = async (payload) => {
  try {
    const response = await axiosInstance.post('/api/users/login', payload);
    return response.data;
  } catch (error) {
    return error.response.data;
  }
}

export const getUserInfo = async () => {
  try {
    const response = await axiosInstance.post('/api/users/get-user-info');
    return response.data;
  } catch (error) {
    return error.response.data;
  }
}
```

#### 5. Loader.js

```
import React from 'react'

function Loader() {
  return (
    <div className='loader-parent'>
      <div className='loader'></div>
    </div>
  )
}
```

#### 6. PageTitle.js

```
import React from 'react'

function PageTitle({title}) {
  return (
    <div className='mt-2'>
```

```
    <h1>{title}</h1>
  </div>
)
}
```

```
export default PageTitle
```

## 7. ProtectedRoute.js

```
import { message } from "antd";
import React, { useEffect, useState } from "react";
import { getUserInfo } from "../apicalls/users";
import { useDispatch, useSelector } from "react-redux";
import { SetUser } from "../redux/usersSlice.js";
import { useNavigate } from "react-router-dom";
import { HideLoading, ShowLoading } from "../redux/loaderSlice";
```

```
function ProtectedRoute({ children }) {
  const { user } = useSelector((state) => state.users);
  const [menu, setMenu] = useState([]);
  const [collapsed, setCollapsed] = useState(false);
  const dispatch = useDispatch();
  const navigate = useNavigate();
```

```
  const userMenu = [
    {
      title: "Home",
      paths: ["/", "/user/write-exam"],
      icon: <i className="ri-home-line"></i>,
      onClick: () => navigate("/"),
    },
    {
      title: "Reports",
      paths: ["/user/reports"],
      icon: <i className="ri-bar-chart-line"></i>,
      onClick: () => navigate("/user/reports"),
    },
    {
      title: "Logout",
      paths: ["/logout"],
      icon: <i className="ri-logout-box-line"></i>,
      onClick: () => {
        localStorage.removeItem("token");
        navigate("/login");
      },
    },
  ],
```

```

];
const adminMenu = [
  {
    title: "Home",
    paths: ["/", "/user/write-exam"],
    icon: <i className="ri-home-line"></i>,
    onClick: () => navigate("/"),
  },
  {
    title: "Tests",
    paths: ["/admin/tests", "/admin/tests/add"],
    icon: <i className="ri-file-list-line"></i>,
    onClick: () => navigate("/admin/tests"),
  },
  {
    title: "Reports",
    paths: ["/admin/reports"],
    icon: <i className="ri-bar-chart-line"></i>,
    onClick: () => navigate("/admin/reports"),
  },
  {
    title: "Logout",
    paths: ["/logout"],
    icon: <i className="ri-logout-box-line" ></i>,
    onClick: () => {
      localStorage.removeItem("token");
      navigate("/login");
    },
  },
],
]

```

```

const getUserData = async () => {
  try {
    dispatch(ShowLoading());
    const response = await getUserInfo()
    dispatch(HideLoading());
    if (response.success) {
      dispatch(SetUser(response.data))
      if (response.data.isAdmin) {
        setMenu(adminMenu);
      } else {
        setMenu(userMenu);
      }
    } else {
      message.error(response.message)
    }
  }
}

```



```

    } catch (error) {
      navigate("/login");
      dispatch(HideLoading());
      message.error(error.message)
    }
  }
}

```

```

useEffect(() => {
  if (localStorage.getItem("token")) {
    getUserData();
  } else {
    navigate("/login");
  }
}, []);

```

```

const activeRoute = window.location.pathname;

```

```

const getIsActiveOrNot = (paths) => {
  if (paths.includes(activeRoute)) {
    return true;
  } else {
    if (activeRoute.includes("/admin/tests/edit") && paths.includes("/admin/tests")) {
      return true;
    }
    if (activeRoute.includes("/user/write-exam") && paths.includes("/user/write-exam")) {
      return true;
    }
  }
  return false;
}

```

```

return (
  <div className='layout'>
    <div className='flex gap-2 w-full h-full h-100'>
      <div className='sidebar'>
        <div className='menu'>
          {menu.map((item, index) => {
            return (
              <div
                className={`menu-item ${getIsActiveOrNot(item.paths) && "active-menu-item"}
              `}
                key={index}
                onClick={item.onClick}
              >
                {item.icon}
                {!collapsed && <span>{item.title}</span>}
            )
          })}
        </div>
      </div>
    </div>
  )

```

```

        </div>
      );
    })
  </div>
</div>
<div className='body'>
  <div className="header flex justify-between">
    {!collapsed && (
      <i
        className="ri-close-line"
        onClick={() => setCollapsed(true)}
      ></i>
    )}
    {collapsed && (
      <i
        className="ri-menu-line"
        onClick={() => setCollapsed(false)}
      ></i>
    )}
    <h1 className='text-2xl'>QUICKI</h1>
    <div>
      <div className="flex gap-1 items-center">
        <h1 className='text-md '>{user?.name}</h1>
      </div>
      <span>
        Role : {user?.isAdmin ? "Admin" : "User"}
      </span>
    </div>
  </div>
  <div className='content'>{children}</div>
</div>
</div>
);
}

```

export default ProtectedRoute

## 8. AdminReports → index.js

```

import React from 'react'
import PageTitle from '.././././components/PageTitle'
import { Table, message } from 'antd'
import { useDispatch } from 'react-redux'
import { HideLoading, ShowLoading } from '.././././redux/loaderSlice'
import { getAllReports } from '.././././apicalls/reports'
import { useEffect } from 'react'
import moment from "moment"

```

```

function AdminReports() {
  const [reportsData, setReportsData] = React.useState([])
  const dispatch = useDispatch();
  const [filters, setFilters] = React.useState({
    examName: "",
    userName: "",
  });

  const columns = [
    {
      title: "Test Name",
      dataIndex: "examName",
      render: (text, record) => <>{record.exam.name}</>,
    },
    {
      title: "User Name",
      dataIndex: "userName",
      render: (text, record) => <>{record.user.name}</>,
    },
    {
      title: "Date",
      dataIndex: "date",
      render: (text, record) => (
        <>{moment(record.createdAt).format("DD-MM-YYYY hh:mm:ss")}</>
      ),
    },
    {
      title: "Total Marks",
      dataIndex: "totalQuestions",
      render: (text, record) => <>{record.exam.totalMarks}</>,
    },
    {
      title: "Passing Marks",
      dataIndex: "correctAnswers",
      render: (text, record) => <>{record.exam.passingMarks}</>,
    },
    {
      title: "Obtained Marks",
      dataIndex: "correctAnswers",
      render: (text, record) => <>{record.result.correctAnswers.length}</>,
    },
    {
      title: "Verdict",
      dataIndex: "verdict",
      render: (text, record) => <>{record.result.verdict}</>,
    },
  ],

```

```

];

const getData = async (tempFilters) => {
  try {
    dispatch(ShowLoading());
    const response = await getAllReports(tempFilters);
    if (response.success) {
      setReportsData(response.data);
    } else {
      message.error(response.message);
    }
    dispatch(HideLoading());
  } catch (error) {
    dispatch(HideLoading());
    message.error(error.message);
  }
};

useEffect(() => {
  getData(filters);
}, []);

return (
  <div>
    <PageTitle title="Reports" />
    <div className="divider"></div>
    <div className='flex gap-2'>
      <input type='text' placeholder='Test Name'
        value={ filters.examName }
        onChange={(e) => setFilters({ ...filters, examName: e.target.value })}
      />
      <input type='text' placeholder='User'
        value={ filters.userName }
        onChange={(e) => setFilters({ ...filters, userName: e.target.value })}
      />
      <button className='primary-outlined-btn'
        onClick={() => {
          setFilters({
            examName : "",
            userName : "",
          })
          getData({
            examName : "",
            userName : "",
          });
        }}
      >Clear
    </div>
  </div>
);

```

```

        </button>
        <button className='primary-contained-btn'
            onClick={() => getData(filters)}
            >Search
        </button>
    </div>
    <Table columns={columns} dataSource={reportsData} className='mt-2' />
</div>
);
}

```

```
export default AdminReports;
```

## 9. AddEditExam.js

```

import React, { useEffect } from 'react'
import PageTitle from '../././components/PageTitle'
import { Col, Form, Row, Select, message, Table } from 'antd'
import { addExam, deleteQuestionById, editExamById, getExamById, getExamData } from
'../././apicalls/exams';
import { useNavigate, useParams } from "react-router-dom"
import { useDispatch } from 'react-redux';
import { HideLoading, ShowLoading } from '../././redux/loaderSlice';
import { Tabs } from 'antd'
import TabPane from 'antd/es/tabs/TabPane';
import AddEditQuestion from './AddEditQuestion';

```

```

function AddEditExam() {
    const dispatch = useDispatch();
    const navigate = useNavigate();
    const [examData, setExamData] = React.useState(null);
    const [showAddEditQuestionModal, setShowAddEditQuestionModal] = React.useState(false)
    const [selectedQuestion, setSelectedQuestion] = React.useState(null);
    const params = useParams();
    const onFinish = async (values) => {
        try {
            dispatch(ShowLoading());
            let response;
            if (params.id) {
                response = await editExamById({
                    ...values,
                    examId: params.id
                });
            } else {
                response = await addExam(values);
            }
            if (response.success) {

```

```

        message.success(response.message);
        navigate("/admin/tests");
    } else {
        message.error(response.message);
    }
    dispatch(HideLoading());
} catch (error) {
    dispatch(HideLoading());
    message.error(error.message);
}
};

const getExamData = async () => {
    try {
        dispatch(ShowLoading());
        const response = await getExamById({
            examId: params.id,
        });
        dispatch(HideLoading());
        if (response.success) {
            setExamData(response.data);
        } else {
            message.error(response.message);
        }
    } catch (error) {
        dispatch(HideLoading());
        message.error(error.message);
    }
};

useEffect(() => {
    if (params.id) {
        getExamData();
    }
}, []);

const deleteQuestion = async (questionId) => {
    try {
        dispatch(ShowLoading());
        const response = await deleteQuestionById({
            questionId,
            examId: params.id
        });
        dispatch(HideLoading());
        if (response.success) {
            message.success(response.message);
            getExamData();
        } else {

```

```

        message.error(response.message);
    }
} catch (error) {
    dispatch(HideLoading());
    message.error(error.message);
}
}

const questionColumns = [
    {
        title: "Question",
        dataIndex: "name",
    },
    {
        title: "Options",
        dataIndex: "options",
        render: (text, record) => {
            return Object.keys(record.options).map((key) => {
                return (
                    <div>
                        {key} : {record.options[key]}
                    </div>
                );
            });
        },
    },
    {
        title: "Correct Option",
        dataIndex: "correctOption",
        render: (text, record) => {
            return ` ${record.correctOption}: ${record.options[record.correctOption]} `;
        },
    },
    {
        title: "Action",
        dataIndex: "action",
        render: (text, record) => (
            <div className="flex gap-2">
                <i
                    className="ri-pencil-line"
                    onClick={() => {
                        setSelectedQuestion(record);
                        setShowAddEditQuestionModal(true);
                    }}
                ></i>
                <i
                    className="ri-delete-bin-line"

```

```

        onClick={() => {
            deleteQuestion(record._id);
        }}
    ></i>
</div>
)
}
]
return (
    <div>
        <PageTitle title=
            {params.id ? "Edit Test" : "Add Test"}
        />
        <div className='divider'></div>

        {(examData || !params.id) && (
            <Form layout='vertical ' onFinish={onFinish} initialValues={examData}>
                <Tabs defaultActiveKey='1'>
                    <TabPane tab="Test Components " key="1" >
                        <Row gutter={[10, 10]}>
                            <Col span={8}>
                                <Form.Item label="Test Name " name="name" >
                                    <input type='text ' />
                                </Form.Item>
                            </Col>
                            <Col span={8}>
                                <Form.Item label="Test Duration" name="duration">
                                    <input type='number' />
                                </Form.Item>
                            </Col>
                            <Col span={8}>
                                <Form.Item label="Category" name="category">
                                    <select name="" id="">
                                        <option value="">Select Category</option>
                                        <option value="Math">Math tests</option>
                                        <option value="Verbal">Verbal tests</option>
                                        <option value="Puzzles">Puzzles</option>
                                        <option value="Logic">Logic tests</option>
                                    </select>
                                </Form.Item>
                            </Col>
                            <Col span={8}>
                                <Form.Item label="Total Marks" name="totalMarks">
                                    <input type='number' />
                                </Form.Item>
                            </Col>
                        </Row>
                    </TabPane>
                </Tabs>
            </Form>
        )
    </div>
)

```



```

        <Col span={8}>
          <Form.Item label="Passing Marks" name="passingMarks">
            <input type='number' />
          </Form.Item>
        </Col>
      </Row>
    <div className='flex justify-end gap-2' style={{ marginTop: '280px', marginRight:
'500px' }}>
      <button className='primary-outlined-btn-1 text-md' type='button'
        onClick={() => navigate("/admin/tests")}
      >
        Cancel</button>
      <button className='primary-contained-btn-1 text-md' type='submit'
    >Save</button>
    </div>
  </TabPane>
  {params.id && (
    <TabPane tab="Questions" key="2">
      <div className='flex justify-end'>
        <button className='primary-outlined-btn'
          type='button'
          onClick={() => setShowAddEditQuestionModal(true)}
        >Add Question</button>
      </div>
      <Table
        columns={questionColumns}
        dataSource={examData?.questions || []}
      />
    </TabPane>
  )}
</Tabs>
</Form>
)}

{showAddEditQuestionModal && (
  <AddEditQuestion
    setShowAddEditQuestionModal={setShowAddEditQuestionModal}
    showAddEditQuestionModal={showAddEditQuestionModal}
    examId={params.id}
    refreshData={getExamData}
    selectedQuestion={selectedQuestion}
    setSelectedQuestion={setSelectedQuestion}
  />
)}
</div>
);

```

```
}
```

```
export default AddEditExam  
export default Loader
```

## 10. AddEditQuestion.js

```
import { Form, Modal, message } from 'antd'  
import React from 'react'  
import { addQuestionToExam, editQuestionById } from '../../apicalls/exams';  
import { useDispatch } from 'react-redux';  
import { HideLoading, ShowLoading } from '../../redux/loaderSlice';
```

```
function AddEditQuestion({  
  showAddEditQuestionModal,  
  setShowAddEditQuestionModal,  
  refreshData,  
  examId,  
  selectedQuestion,  
  setSelectedQuestion,  
}) {  
  const dispatch = useDispatch();  
  const onFinish = async (values) => {  
    try {  
      dispatch(ShowLoading());  
      const requiredPayload = {  
        name: values.name,  
        correctOption: values.correctOption,  
        options: {  
          A: values.A,  
          B: values.B,  
          C: values.C,  
        },  
      };  
      await addQuestionToExam(examId, selectedQuestion, requiredPayload);  
      refreshData();  
      dispatch(HideLoading());  
      message.success('Question added successfully');  
      setShowAddEditQuestionModal(false);  
    } catch (error) {  
      message.error('Error adding question');  
    }  
  }  
}
```

```

        D: values.D,
    },
    exam: examId,
};

let response
if (selectedQuestion) {
    response = await editQuestionById({
        ...requiredPayload,
        questionId: selectedQuestion._id
    })
} else {
    response = await addQuestionToExam(requiredPayload);
}

if (response.success) {
    message.success(response.message);
    refreshData();
    setShowAddEditQuestionModal(false);
} else {
    message.error(response.message);
}

setSelectedQuestion(null)
dispatch(HideLoading());
} catch (error) {
    dispatch(HideLoading());
    message.error(error.message);
}
};

return (

```

```

<Modal title={selectedQuestion ? "Edit Question" : "Add Question"}
  visible={showAddEditQuestionModal}
  footer={false}
  onCancel={() => {
    setShowAddEditQuestionModal(false)
    setSelectedQuestion(null)
  }}>
<Form onFinish={onFinish} layout='vertical'
  initialValues={{
    name: selectedQuestion?.name,
    A: selectedQuestion?.options?.A,
    B: selectedQuestion?.options?.B,
    C: selectedQuestion?.options?.C,
    D: selectedQuestion?.options?.D,
    correctOption: selectedQuestion?.correctOption,
  }}
>
  <Form.Item name="name" label="Question">
    <input type='text' />
  </Form.Item>
  <Form.Item name="correctOption" label="Correct Option">
    <input type='text' />
  </Form.Item>
  <div className='flex gap-8' >
    <Form.Item name="A" label="Option A">
      <input type='text' />
    </Form.Item>
    <Form.Item name="B" label="Option B" style={{ marginLeft:'77px' }}>
      <input type='text' />
    </Form.Item>

```

```

</div>
<div className='flex gap-8 ' >
  <Form.Item name="C" label="Option C">
    <input type='text' />
  </Form.Item>
  <Form.Item name="D" label="Option D" style={{ marginLeft:'77px'}}>
    <input type='text' />
  </Form.Item>
</div>

<div className='flex justify-end mt-2 gap-3'>
  <button
    className='primary-outlined-btn'
    type='button'
    onClick={() => setShowAddEditQuestionModal(false)}
  >
    Cancel
  </button>
  <button className='primary-contained-btn'>
    Save
  </button>
</div>
</Form>
</Modal>
);
}

```

```
export default AddEditQuestion
```

## 11. Exams → index.js

```
import React from 'react'
import { message, Table } from "antd";
import PageTitle from '.././././components/PageTitle';
import { useNavigate } from 'react-router-dom';
import { useEffect } from "react";
import { useDispatch } from "react-redux";
import { deleteExamById, getAllExams } from ".././././apicalls/exams";
import { HideLoading, ShowLoading } from ".././././redux/loaderSlice";
```

```
function Exams() {
  const navigate = useNavigate();
  const [exams, setExams] = React.useState([]);
  const dispatch = useDispatch();
```

```
  const getExamsData = async () => {
    try {
      dispatch(ShowLoading());
      const response = await getAllExams();
      dispatch(HideLoading());
      if (response.success) {
        setExams(response.data);
      } else {
        message.error(response.message);
      }
    } catch (error) {
      dispatch(HideLoading());
      message.error(error.message);
    }
  };
```

```
  const deleteExam = async (examId) => {
    try {
      dispatch(ShowLoading());
      const response = await deleteExamById({
        examId,
      });
      dispatch(HideLoading());
      if (response.success) {
        message.success(response.message);
        getExamsData();
      } else {
        message.error(response.message);
      }
    } catch (error) {
      dispatch(HideLoading());
    }
  };
```

```

    message.error(error.message);
  }
};
const columns = [
  {
    title: "Training Test",
    dataIndex: "name",
  },
  {
    title: "Duration",
    dataIndex: "duration",
  },
  {
    title: "Category",
    dataIndex: "category",
  },
  {
    title: "Total Marks",
    dataIndex: "totalMarks",
  },
  {
    title: "Passing Marks",
    dataIndex: "passingMarks",
  },
  {
    title: "Action",
    dataIndex: "action",
    render: (text, record) => (
      <div className="flex gap-2">
        <i
          className="ri-pencil-line"
          onClick={() => navigate(`/admin/exams/edit/${record._id}`)}
        ></i>
        <i
          className="ri-delete-bin-line"
          onClick={() => deleteExam(record._id)}
        ></i>
      </div>
    ),
  },
];

useEffect(() => {
  getExamsData();
}, []);
return (

```

```

<div>
  <div className="flex justify-between mt-2 items-end">
    <PageTitle title="Training Tests" />

    <button
      className="primary-outlined-btn flex items-center"
      onClick={() => navigate("/admin/exams/add")}
    >
      <i className="ri-add-line"></i>
      Add Test
    </button>
  </div>
  <div className="divider"></div>

  <Table columns={columns} dataSource={exams} />
</div>
);
}

```

```
export default Exams;
```

## 12. Home → index.js

```

import { Col, message, Row } from "antd";
import React, { useEffect } from "react";
import { useDispatch, useSelector } from "react-redux";
import { getAllExams } from "../../apicalls/exams";
import { HideLoading, ShowLoading } from "../../redux/loaderSlice";
import PageTitle from "../../components/PageTitle";
import { useNavigate } from "react-router-dom";
function Home() {
  const [exams, setExams] = React.useState([]);
  const navigate = useNavigate();
  const dispatch = useDispatch();
  const { user } = useSelector((state) => state.users);
  const getExams = async () => {
    try {
      dispatch(ShowLoading());
      const response = await getAllExams();
      if (response.success) {
        setExams(response.data);
      } else {
        message.error(response.message);
      }
      dispatch(HideLoading());
    } catch (error) {
      dispatch(HideLoading());
      message.error(error.message);
    }
  };
}

```



```

    }
  };

  useEffect(() => {
    getExams();
  }, []);

  return (
    user && (
      <div>
        <PageTitle title={`Hi ${user.name}, Welcome to Quicki!`} />
        <div className="divider"></div>
        <Row gutter={[16, 16]}>
          {exams.map((exam) => (
            <Col span={6}>
              <div className="card-lg flex flex-col gap-1 p-2">
                <h1 className="text-2xl">{exam?.name}</h1>

                <h1 className="text-md">Category : {exam.category}</h1>

                <h1 className="text-md">Total Marks : {exam.totalMarks}</h1>
                <h1 className="text-md">Passing Marks : {exam.passingMarks}</h1>
                <h1 className="text-md">Duration : {exam.duration}</h1>
                <button
                  className="primary-outlined-btn text-md"
                  onClick={() => navigate(`/user/write-exam/${exam._id}`)}
                >
                  Start Test
                </button>
              </div>
            </Col>
          ))}
        </Row>
      </div>
    )
  );
}

```

```
export default Home;
```

### 13. Login → index.js

```

import React from 'react'
import { Form, message } from 'antd'
import { Link } from 'react-router-dom'
import { loginUser } from '../../apicalls/users';
import { useDispatch } from 'react-redux';
import { HideLoading, ShowLoading } from '../../redux/loaderSlice';

```

```

function Login() {
  const dispatch = useDispatch();
  const onFinish = async (values) => {
    try {
      dispatch(ShowLoading());
      const response = await loginUser(values);
      dispatch(HideLoading());
      if (response.success) {
        message.success(response.message);
        localStorage.setItem("token", response.data);
        window.location.href = "/";
      } else {
        message.error(response.message);
      }
    } catch (error) {
      dispatch(HideLoading());
      message.error(error.message);
    }
  }
}
return (
  <div className="flex justify-center items-center h-screen w-screen bg-primary">
    <div className="card w-400 p-3 bg-white">
      <div className="flex flex-col">
        <div className="flex">
          <h1 className="text-2xl">QUICKI - LOGIN <i class="ri-login-circle-line"></i></h1>

          </div>
          <div className="divider"></div>
          <Form layout="vertical" className="mt-2" onFinish={onFinish}>
            <Form.Item name="email" label="Email">
              <input type="text" />
            </Form.Item>
            <Form.Item name="password" label="Password">
              <input type="password" />
            </Form.Item>
            <div className="flex flex-col gap-2">
              <button type="submit" className="primary-contained-btn mt-2 w-100">Log in</button>
              <Link to="/register" className="underline">Don't have an account? Register here.</Link>
            </div>
          </Form>
        </div>
      </div>
    </div>
  </div>
)
}

```

export default Login

## 14. Register → index.js

```
import React from 'react'
import { Form, message } from 'antd'
import { Link, useNavigate } from 'react-router-dom'
import { registerUser } from '../..../apicalls/users'
import { useDispatch } from 'react-redux'
import { HideLoading, ShowLoading } from '../..../redux/loaderSlice'
```

```
function Register() {
  const dispatch = useDispatch();
  const navigate = useNavigate();
  const onFinish = async (values) => {
    try {
      dispatch(ShowLoading());
      const response = await registerUser(values);
      dispatch(HideLoading());

      if (response.success) {
        message.success(response.message);
        navigate("/login");
      } else {
        message.error(response.message);
      }
    } catch (error) {
      dispatch(HideLoading());
      message.error(error.message);
    }
  };
  return (
    <div className='flex justify-center items-center h-screen w-screen bg-primary'>
      <div className='card w-400 p-3 bg-white'>
        <div className="flex flex-col">
          <div className='flex'>
            <h1 className='text-2xl'>QUICKI - REGISTER
              <i class="ri-user-add-line"></i>
            </h1>
          </div>
          <div className='divider'></div>
          <Form layout='vertical' className='mt-2' onFinish={onFinish}>
            <Form.Item name='name' label='Name'>
              <input type='text' />
            </Form.Item>
            <Form.Item name='email' label='Email'>
              <input type='text' />
            </Form.Item>
          </Form>
        </div>
      </div>
    </div>
  );
}
```

```

    <Form.Item name='password' label='Password'>
      <input type='password' />
    </Form.Item>
    <div className='flex flex-col gap-2'>
      <button type='submit' className='primary-contained-btn mt-2 w-100'>Register</button>
      <Link to="/login" className='underline'>Already have an account?Login here.</Link>
    </div>
  </Form>
</div>
</div>

</div>}}

```

```
export default Register;
```

## 15. UserReports → index.js

```

import React from "react";
import PageTitle from "../../components/PageTitle";
import { message, Modal, Table } from "antd";
import { useDispatch } from "react-redux";
import { HideLoading, ShowLoading } from "../../redux/loaderSlice";
import { getAllReportsByUser } from "../../apicalls/reports";
import { useEffect } from "react";
import moment from "moment";

function UserReports() {
  const [reportsData, setReportsData] = React.useState([]);
  const dispatch = useDispatch();
  const columns = [
    {
      title: "Tests Name",
      dataIndex: "examName",
      render: (text, record) => <>{record.exam.name}</>,
    },
    {

```

```
title: "Date",
dataIndex: "date",
render: (text, record) => (
  <>{moment(record.createdAt).format("DD-MM-YYYY hh:mm:ss")}</>
),
},
{
title: "Total Marks",
dataIndex: "totalQuestions",
render: (text, record) => <>{record.exam.totalMarks}</>,
},
{
title: "Passing Marks",
dataIndex: "correctAnswers",
render: (text, record) => <>{record.exam.passingMarks}</>,
},
{
title: "Obtained Marks",
dataIndex: "correctAnswers",
render: (text, record) => <>{record.result.correctAnswers.length}</>,
},
{
title: "Verdict",
dataIndex: "verdict",
render: (text, record) => <>{record.result.verdict}</>,
},
];
```

```
const getData = async () => {
  try {
```

```
    dispatch(ShowLoading());

    const response = await getAllReportsByUser();
    if (response.success) {
      setReportsData(response.data);
    } else {
      message.error(response.message);
    }
    dispatch(HideLoading());
  } catch (error) {
    dispatch(HideLoading());
    message.error(error.message);
  }
};

useEffect(() => {
  getData();
}, []);

return (
  <div>
    <PageTitle title="Reports" />
    <div className="divider"></div>
    <Table columns={columns} dataSource={reportsData} />
  </div>
);
}

export default UserReports;
```

## 16. index.jsx

```
import React, { useEffect, useState } from 'react'

import { useDispatch, useSelector } from 'react-redux';

import { useNavigate, useParams } from 'react-router-dom';

import { HideLoading, ShowLoading } from '../redux/loaderSlice';

import { getExamById } from '../apicalls/exams';

import { addReport } from "../../apicalls/reports";

import { message } from 'antd';

import Instructions from './Instructions';

function WriteExam() {

  const [examData, setExamData] = React.useState(null);

  const [questions = [], setQuestions] = React.useState([]);

  const [selectedQuestionIndex, setSelectedQuestionIndex] = React.useState(0);

  const [selectedOptions, setSelectedOptions] = React.useState({ });

  const [result = {}], setResult] = React.useState({ });

  const params = useParams();

  const dispatch = useDispatch();

  const navigate = useNavigate();

  const [view, setView] = useState("instructions");

  const [secondsLeft = 0, setSecondsLeft] = useState(0);

  const [timeUp, setTimeUp] = useState(false);

  const [intervalId, setIntervalId] = useState(null);

  const { user } = useSelector((state) => state.users);

  const getExamData = async () => {

    try {

      dispatch(ShowLoading());

      const response = await getExamById({

        examId: params.id,
```

```

    });
    dispatch(HideLoading());
    if (response.success) {
        setQuestions(response.data.questions);
        setExamData(response.data);
        setSecondsLeft(response.data.duration);
    } else {
        message.error(response.message);
    }
} catch (error) {
    dispatch(HideLoading());
    message.error(error.message);
}
};

```

```

const calculateResult = async () => {
    try {
        let correctAnswers = [];
        let wrongAnswers = [];

        questions.forEach((question, index) => {
            if (question.correctOption === selectedOptions[index]) {
                correctAnswers.push(question);
            } else {
                wrongAnswers.push(question);
            }
        });

        let verdict = "Pass";
        if (correctAnswers.length < examData.passingMarks) {

```



```

    verdict = "Fail";
  }

  const tempResult = {
    correctAnswers,
    wrongAnswers,
    verdict,
  }

  setResult(tempResult);
  dispatch(ShowLoading());
  const response = await addReport({
    exam: params.id,
    result: tempResult,
    user: user._id
  });
  dispatch(HideLoading());
  if (response.success) {
    setView("result");
  } else {
    message.error(response.message);
  }
} catch (error) {
  dispatch(HideLoading());
  message.error(error.message);
}
};

const startTimer = () => {
  let totalSeconds = examData.duration;

```

```

const intervalId = setInterval(() => {
  if (totalSeconds > 0) {
    totalSeconds = totalSeconds - 1;
    setSecondsLeft(totalSeconds);
  } else {
    setTimeUp(true);
  }
}, 1000);
setIntervalId(intervalId);
};

useEffect(() => {
  if (timeUp && view === "questions") {
    clearInterval(intervalId);
    calculateResult();
  }
}, [timeUp]);

useEffect(() => {
  if (params.id) {
    getExamData();
  }
}, []);
return (
  examData && (
    <div className='mt-2'>
      <div className='divider'></div>
      <h1 className='text-center'>{examData.name}</h1>
      <div className='divider'></div>

```

```

{view === "instructions" && (
  <Instructions
    examData={examData}
    setView={setView}
    startTimer={startTimer}
  />
)}
{view === "questions" && (
  <div className="flex flex-col gap-2">
    <div className='flex justify-between'>
      <h1 className="text-2xl">
        {selectedQuestionIndex + 1} :{" "}
        {questions[selectedQuestionIndex].name}
      </h1>
      <div className='timer'>
        <span className='text-2xl'>{secondsLeft}</span>
      </div>
    </div>

    <div className="flex flex-col gap-2">
      {Object.keys(questions[selectedQuestionIndex].options).map(
        (option, index) => {
          return (
            <div
              className={`flex gap-2 flex-col ${selectedOptions[selectedQuestionIndex]
                ? "selected-option"
                : "option"}
            >

```

```

        `}
        key={index}
        onClick={() => {
            setSelectedOptions({
                ...selectedOptions,
                [selectedQuestionIndex]: option,
            });
        }}
    >
        <h1 className="text-xl">
            {option} :{" "}
            {questions[selectedQuestionIndex].options[option]}
        </h1>
    </div>
);
}
})
</div>

<div className="flex justify-between">
    {selectedQuestionIndex > 0 && (
        <button
            className="primary-outlined-btn"
            onClick={() => {
                setSelectedQuestionIndex(selectedQuestionIndex - 1);
            }}
        >
            Previous
        </button>
    )}

```

```

    {selectedQuestionIndex < questions.length - 1 && (
      <button
        className="primary-contained-btn"
        onClick={() => {
          setSelectedQuestionIndex(selectedQuestionIndex + 1);
        }}
      >
        Next
      </button>
    )}

    {selectedQuestionIndex === questions.length - 1 && (
      <button
        className="primary-contained-btn"
        onClick={() => {
          clearInterval(intervalId);
          setTimeUp(true);
        }}
      >
        Submit
      </button>
    )}
  </div>
</div>
)}

{view === "result" && (
  <div className='flex items-center mt-2 justify-center result' >
    <div className='flex flex-col gap-2 ' >

```

```

<h1 className='text-2xl'>RESULT</h1>
<div className='divider'></div>
<div className='marks'>
  <h1 className='text-md'>Total Marks : {examData.totalMarks}</h1>
  <h1 className='text-md'>Obtained Marks :
    {result.correctAnswers.length}
  </h1>
  <h1 className='text-md'>
    Wrong Answers : {result.wrongAnswers.length}
  </h1>
  <h1 className='text-md'>Passing Marks : {examData.passingMarks}</h1>
  <h1 className='text-md'>VERDICT :
    {result.verdict}
  </h1>
  <div className='flex gap-2 mt-2'>
    <button className='primary-outlined-btn-2'
      onClick={() => {
        setView("instructions");
        setSelectedQuestionIndex(0);
        setSelectedOptions({});
        setSecondsLeft(examData.duration);
      }}
    >
      Retake Test
    </button>
    <button className='primary-contained-btn-2'
      onClick={() => {
        setView("review");
      }}
    >

```

## Review Answers

```
</button>
</div>
</div>
</div>
<div className='lottie-animation'>
  {result.verdict === "Pass" && (<lottie-player
    src="https://assets2.lottiefiles.com/packages/lf20_uu0x8lqv.json"
    background="transparent"
    speed="1"
    loop
    autoplay>

</lottie-player>
  )}

  {result.verdict === "Fail" && (<lottie-player
    src="https://assets2.lottiefiles.com/packages/lf20_e5pm2x8q.json"
    background="transparent"
    speed="1"
    loop
    autoplay>
</lottie-player>
  )}
</div>
</div>
)}

{view === "review" && (
  <div className='flex flex-col gap-2'>
```

```

{questions.map((question, index) => {
  const isCorrect = question.correctOption === selectedOptions[index];
  return (
    <div className={`flex flex-col gap-1 p-2 ${isCorrect ? "bg-success" : "bg-
error"}`}>
      <h1 className="text-xl">
        {index + 1} : {question.name}
      </h1>
      <h1 className="text-md">
        Submitted Answer : {selectedOptions[index]} -{" "}
        {question.options[selectedOptions[index]]}
      </h1>
      <h1 className="text-md">
        Correct Answer : {question.correctOption} -{" "}
        {question.options[question.correctOption]}
      </h1>
    </div>
  );
})}

```

```

<div className="flex justify-center gap-2">
  <button
    className="primary-outlined-btn"
    onClick={() => {
      navigate("/");
    }}
  >
    Close
  </button>
  <button

```



```

        className="primary-contained-btn"
        onClick={() => {
            setView("instructions");
            setSelectedQuestionIndex(0);
            setSelectedOptions({});
            setSecondsLeft(examData.duration);
        }}
    >
        Retake Test
    </button>
</div>
</div>
    )}
</div>
)
);
}

```

```
export default WriteExam;
```

## 16. loaderSlice.js

```
import { createSlice } from "@reduxjs/toolkit";
```

```

export const loaderSlice = createSlice({
  name: 'loader',
  initialState: {
    loading: false,
  },
  reducers: {

```

```
ShowLoading(state) {
  state.loading = true;
},
HideLoading(state) {
  state.loading = false;
}
}
})

export const { ShowLoading, HideLoading } = loaderSlice.actions
export default loaderSlice.reducer
```

## 17. store.js

```
import loaderSlice from "./loaderSlice";
import { configureStore } from "@reduxjs/toolkit";
import usersSlice from "./usersSlice";

const store = configureStore({
  reducer: {
    users: usersSlice,
    loader: loaderSlice
  },
});

export default store;
```

## 18. usersSlice.js

```
import { createSlice } from '@reduxjs/toolkit';

const usersSlice = createSlice({
  name: 'users',
```

```
initialState: {
  user: null
},
reducers: {
  SetUser: (state, action) => {
    state.user = action.payload
  }
}
})
```

```
export const { SetUser } = usersSlice.actions
export default usersSlice.reducer
```

## **19. alignments.css**

```
.h-screen{
  height: 100vh;
}
.h-100{
  height: 100%;
}
.h-75{
  height: 75%;
}
.h-50{
  height: 50%;
}
.h-25{
  height: 25%;
```

```
}
```

```
.w-screen{  
  width: 100vw;
```

```
}
```

```
.w-100{  
  width: 100%;
```

```
}
```

```
.w-75{  
  width: 75%;
```

```
}
```

```
.w-50{  
  width: 50%;
```

```
}
```

```
.w-25{  
  width: 25%;
```

```
}
```

```
.w-400{  
  width: 400px;
```

```
}
```

```
.flex{  
  display: flex;
```

```
}
```

```
.flex-col{  
  flex-direction: column;
```

```
}
```

```
.justify-center{
```

```
    justify-content: center;
```

```
}
```

```
.justify-between{
```

```
    justify-content: space-between;
```

```
}
```

```
.justify-start{
```

```
    justify-content: flex-start;
```

```
}
```

```
.justify-end{
```

```
    justify-content: flex-end;
```

```
}
```

```
.items-center{
```

```
    align-items: center;
```

```
}
```

```
.items-start{
```

```
    align-items: flex-start;
```

```
}
```

```
.items-end{
```

```
    align-items: flex-end;
```

```
}
```

```
.gap-1{
```

```
    gap: 10px;
```

```
}  
.gap-2{  
  gap: 20px;  
}  
.gap-3{  
  gap: 30px;  
}  
.gap-4{  
  gap: 40px;  
}  
.gap-5{  
  gap: 50px;  
}  
  
.p-5{  
  padding: 50px;  
}  
.p-4{  
  padding: 40px;  
}  
.p-3{  
  padding: 30px;  
}  
.p-2{  
  padding: 20px;  
}  
.p-1{
```

```
padding: 10px;
}
```

```
.mt-1{
margin-top: 10px;
}
```

```
.mt-2{
margin-top: 20px;
}
```

## **20. custom-components.css**

```
.card {
box-shadow: 0 0 1px gray;
border-radius: 5px;
}
```

```
.card-lg {
box-shadow: 0 0 2px rgb(27, 27, 27);
border-radius: 5px;
/* width: 400px; */
}
```

```
.divider {
border-bottom: 1px solid gray;
margin: 10px 0;
}
```

```
.loader-parent {
position: absolute;
```

```
inset: 0;
background-color: rgba(0, 0, 0, 0.6);
z-index: 10000;
display: flex;
justify-content: center;
align-items: center;
}
```

```
.loader {
  height: 80px;
  width: 80px;
  border: 5px solid white;
  border-left-color: transparent;
  border-radius: 50%;
  animation: loader 1s linear infinite;
}
```

```
.option{
  box-shadow: 0px 0px 1.5px;
  padding: 10px;
  border-radius: 2px;
}
```

```
.selected-option{
  box-shadow: 0px 0px 1 px;
  padding: 10px;
  border-radius: 2px;
  border: 2px solid var(--primary);
}
```

```
.result{
```



```
    box-shadow: black 0px 0px 2px;
    padding: 15px;
    /* color: white !important; */
    border-radius: 5px;
    height: 470px;
}
```

```
.lottie-animation{
    height: 200px;
    padding: 30px;
}
```

```
.timer{
    background-color: var(--color);
    color: white !important;
    padding: 10px;
    display: flex;
    align-items: center;
    justify-content: center;
    height: 50px;
    width: 50px;
    border-radius: 50%;
}
```

```
@keyframes loader {
    0% {
        transform: rotate(0deg);
    }
    100% {
        transform: rotate(360deg);
    }
}
```

## 21. form-elements.css

```
input {  
    height: 25px !important;  
    padding: 5px 10px !important;  
    border: 2px solid #676767 !important;  
    width: 94%;  
    border-radius: 7px !important;  
  
}
```

```
select {  
    height: 38px !important;  
    padding: 5px 10px !important;  
    border: 2px solid #676767 !important;  
    width: 94%;  
    border-radius: 2px !important;  
  
}
```

```
.ant-form-item {  
    margin-bottom: 5px !important;  
  
}
```

```
.button {  
    border-radius: 2px;  
    padding: 0px 25px;  
    height: 40px !important;  
  
}
```

```
.primary-contained-btn {  
    background-color: var(--color);  
  
}
```

```
    color: white;
    padding: 10px 25px;
    border-color: var(--color);
    border-radius: 7px;
}
.primary-contained-btn-1 {
    background-color: var(--primary);
    color: white;
    padding: 10px 80px;
    border-color: var(--primary);
    border-radius: 7px;
}

.primary-outlined-btn {
    background-color: white;
    color: var(--color);
    border: 2px solid var(--color);
    padding: 10px 25px;
    border-radius: 7px;
}
.primary-outlined-btn-1 {
    background-color: white;
    color: var(--primary);
    border: 2px solid var(--primary);
    padding: 10px 80px;
    border-radius: 7px;
}

.primary-contained-btn-2 {
    background-color: var(--color);
```

```
color: white;
padding: 10px 80px;
border-color: var(--color);
border-radius: 7px;
}
```

```
.primary-outlined-btn-2{
background-color: white;
color: var(--color);
border: 2px solid var(--color);
padding: 10px 80px;
border-radius: 7px;
}
```

## 22. layout.css

```
.layout {
padding: 0px;
height: 100;
width: 100;
}
```

```
.sidebar {
background-color: var(--primary);
padding: 10px;
padding-top: 250px;
border-radius: 5px;
height: 100;
display: flex;
align-items: flex-start;
justify-content: center;
```

```
}
```

```
.menu-item {  
  display: flex;  
  align-items: center;  
  padding: 10px;  
  margin: 5px;  
  cursor: pointer;  
  transition: all 0.2s ease-in-out;  
  gap: 15px;  
  color: white !important;  
  /* margin-top: 100px; */  
}
```

```
.active-menu-item{  
  border: 2px solid white;  
  border-radius: 5px;  
}
```

```
.body {  
  width: 100% !important;  
}
```

```
.header {  
  background-color: var(--primary);  
  color: white !important;  
  width: 97% !important;  
  padding: 15px;  
  border-radius: 5px;  
  align-items: center !important;  
}
```

## 23. textelements.css

```
.text-2xl{
    font-size: 1.5rem;
    line-height: 2rem;
}
.text-xl{
    font-size: 1.25rem;
    line-height: 1.75rem;
}
.text-lg{
    font-size: 1.25rem;
    line-height: 1.5rem;
}
.text-md{
    font-size: 1rem;
    line-height: 1.25rem;
}
.text-sm{
    font-size: 0.875rem;
    line-height: 1rem;
}
.text-xs{
    font-size: 0.75rem;
    line-height: 0.875rem;
}

h1{
    margin-bottom: 0px !important;
    padding-bottom: 0 !important ;
}
```

```
.text-center{
  text-align: center;
}
a{
  color: var(--primary) !important;
}
a:hover{
  color: var(--primary) !important;
  text-decoration: underline !important;
}

i{
  font-size: 18px !important;
  cursor: pointer !important;
}

.underline{
  text-decoration: underline !important;
}
```

## 24. theme.css

```
:root {
  --primary: #19A7CE;
  --color: #B799FF;
  --secondary: #ff5722;
  --success: #B3FFAE;
  --info: #00bcd4;
  --warning: #ff9800;
  --dander: #FF6464;
  --light: #f1f1f1;
```

```
--dark: #212121;
}

.bg-primary{
  background-color: var(--primary) !important;
}

.text.white{
  color: white !important;
}

.bg-success{
  background-color: var(--success);
}

.bg-white{
  background-color: white !important;
}

.bg-error{
  background-color: var(--dander);
}
```

## **25. index.css**

```
@import
url('http://fonts.googleapis.com/css2?family=Montserrat:wght@500&display=swap');
* {
  font-family: 'Montserrat', sans-serif !important;
}
```



## 26. index.js

```
import React from 'react';
import ReactDOM from 'react-dom/client';
import './index.css';
import App from './App';
import reportWebVitals from './reportWebVitals';
import 'antd/dist/antd.min.js';
import store from './redux/store';
import { Provider } from 'react-redux';

const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
  <Provider store={store}>
    <App />
  </Provider>
);
reportWebVitals();
```

## ДОДАТОК Б. BackCode

### 1. server.js

```
const express = require("express");
const app = express();
require("dotenv").config();
app.use(express.json());
const dbConfig = require("../config/dbConfig");

const usersRoute = require("../routes/usersRoute");
const examsRoute = require("../routes/examsRoute");
const reportsRoute = require("../routes/reportsRoute");

app.use("/api/users", usersRoute);
app.use("/api/exams", examsRoute);
app.use("/api/reports", reportsRoute);

const port = process.env.PORT || 5000;
app.listen(port, () => {
  console.log(`Server listening on port ${port}`);
});
```

### 2. dbConfig.js

```
const mongoose = require('mongoose');
mongoose.connect(process.env.MONGO_URL)

const connection = mongoose.connection;
connection.on('connected', () => {
  console.log('Mongo DB Connection Successful');
})
connection.on('error', (err) => {
  console.log('Mongo DB Connection Failed');
})
module.exports = connection;
```

### 3. examModel.js

```
const mongoose = require('mongoose');

const examSchema = new mongoose.Schema({
  name: {
```

```
    type: String,
    required: true,
  },
  duration: {
    type: Number,
    required: true,
  },
  category: {
    type: String,
    required: true,
  },
  totalMarks: {
    type: Number,
    required: true,
  },
  passingMarks: {
    type: Number,
    required: true,
  },
  questions: {
    type: [mongoose.Schema.Types.ObjectId],
    ref: "questions",
    required: true,
  },
}, {
  timestamps: true,
});

const Exam = mongoose.model("exams", examSchema);
```

```
module.exports = Exam;
```

#### 4. questionModel.js

```
const mongoose = require('mongoose');  
const questionSchema = new mongoose.Schema({  
  name: {  
    type: String,  
    require: true  
  },  
  correctOption: {  
    type: String,  
    require: true  
  },  
  options: {  
    type: Object,  
    require: true  
  },  
  exam: {  
    type: mongoose.Schema.Types.ObjectId,  
    ref: "exams",  
  },  
  
}, {  
  timestamps: true,  
});  
  
const Question = mongoose.model("questions", questionSchema);  
module.exports = Question;
```

## 5. reportModel.js

```
const mongoose = require('mongoose');

const reportSchema = new mongoose.Schema({
  user: {
    type: mongoose.Schema.Types.ObjectId,
    ref: "users"
  },
  exam: {
    type: mongoose.Schema.Types.ObjectId,
    ref: "exams",
  },
  result: {
    type: Object,
    required: true,
  },
},{
  timestamps: true,
});
```

```
const Report = mongoose.model("reports", reportSchema);
```

```
module.exports = Report;
```

## 6. userModel.js

```
const mongoose = require("mongoose");

const userSchema = new mongoose.Schema(
  {
    name: {
      type: String,
      required: true,
```

```
    },
    email: {
      type: String,
      required: true,
      unique: true,
    },
    password: {
      type: String,
      required: true,
    },
    isAdmin: {
      type: Boolean,
      default: false,
    },
  },
  {
    timestamps: true,
  }
);
```

```
const userModel = mongoose.model("users", userSchema);
```

```
module.exports = userModel;
```

## 7. examsRoute.js

```
const router = require("express").Router();
const Exam = require("../models/examModel");
const authMiddleware = require("../middlewares/authMiddleware");
const Question = require("../models/questionModel");

// add test
```

```

router.post("/add", authMiddleware, async (req, res) => {
  try {
    // check if exam already exists
    const examExists = await Exam.findOne({ name: req.body.name });
    if (examExists) {
      return res
        .status(200)
        .send({ message: "Exam already exists", success: false });
    }
    req.body.questions = [];
    const newExam = new Exam(req.body);
    await newExam.save();
    res.send({
      message: "Exam added successfully",
      success: true,
    });
  } catch (error) {
    res.status(500).send({
      message: error.message,
      data: error,
      success: false,
    });
  }
});

// get all tests
router.post("/get-all-exams", authMiddleware, async (req, res) => {
  try {
    const exams = await Exam.find({});
    res.send({
      message: "Exams fetched successfully",
      data: exams,
      success: true,
    });
  } catch (error) {
    res.status(500).send({
      message: error.message,
      data: error,
      success: false,
    });
  }
});

// get test by id
router.post("/get-exam-by-id", authMiddleware, async (req, res) => {
  try {
    const exam = await Exam.findById(req.body.examId).populate("questions");

```

```
    res.send({
      message: "Exam fetched successfully",
      data: exam,
      success: true,
    });
  } catch (error) {
    res.status(500).send({
      message: error.message,
      data: error,
      success: false,
    });
  }
})
```

```
// edit test by id
router.post("/edit-exam-by-id", authMiddleware, async (req, res) => {
  try {
    await Exam.findByIdAndUpdate(req.body.examId, req.body);
    res.send({
      message: "Exam edited successfully",
      success: true,
    });
  } catch (error) {
    res.status(500).send({
      message: error.message,
      data: error,
      success: false,
    });
  }
});
```

```
// delete test by id
router.post("/delete-exam-by-id", authMiddleware, async (req, res) => {
  try {
    await Exam.findByIdAndDelete(req.body.examId);
    res.send({
      message: "Exam deleted successfully",
      success: true,
    });
  } catch (error) {
    res.status(500).send({
      message: error.message,
      data: error,
      success: false,
    });
  }
});
```



```

    }
  });

  // add question to test
  router.post("/add-question-to-exam", authMiddleware, async (req, res) => {
    try {
      // add question to Questions collection
      const newQuestion = new Question(req.body);
      const question = await newQuestion.save();

      // add question to test
      const exam = await Exam.findById(req.body.exam);
      exam.questions.push(question._id);
      await exam.save();
      res.send({
        message: "Question added successfully",
        success: true,
      });
    } catch (error) {
      res.status(500).send({
        message: error.message,
        data: error,
        success: false,
      });
    }
  });

  // edit questions in test
  router.post("/eddit-question-in-exam", authMiddleware, async (req, res) => {
    try {
      // edit question in Questions collection
      await Question.findByIdAndUpdate(req.body.questionId, req.body);
      res.send({
        message: "Question edited successfully",
        success: true,
      });
    } catch (error) {
      res.status(500).send({
        message: error.message,
        data: error,
        success: false,
      });
    }
  });
});

```

```

// delete question in test
router.post("/delete-question-in-exam", authMiddleware, async (req, res) => {
  try {
    // delete question in Questions collection
    await Question.findByIdAndDelete(req.body.questionId);

    // delete question in test
    const exam = await Exam.findById(req.body.examId);
    exam.questions = exam.questions.filter(
      (question) => question._id !== req.body.questionId
    );
    await exam.save();
    res.send({
      message: "Question deleted successfully",
      success: true,
    });
  } catch (error) {

  });
});

module.exports = router;

```

## 8. reportsRoute.js

```

const authMiddleware = require("../middlewares/authMiddleware");
const Exam = require("../models/examModel");
const User = require("../models/userModel");
const Report = require("../models/reportModel");
const router = require("express").Router();

```

```

//add report

```

```

router.post("/add-report", authMiddleware, async (req, res) => {
  try {
    const newReport = new Report(req.body);
    await newReport.save();
    res.send({
      message: "Attempt added successfully",
      success: true,
    });
  } catch (error) {
    res.status(500).send({
      message: error.message,
      data: error,
      success: false,
    });
  }
});

```

```
//get all reports
```

```
router.post("/get-all-reports", authMiddleware, async (req, res) => {  
  try {  
    const { examName, userName } = req.body;  
    const exams = await Exam.find({  
      name: {  
        $regex: examName,  
      }  
    });  
  
    const matchedExamIds = exams.map((exam) => exam._id);  
  
    const users = await User.find({  
      name: {  
        $regex: userName,  
      },  
    });  
  
    const matchedUserIds = users.map((user) => user._id);  
  
    const reports = await Report.find({  
      exam: {  
        $in: matchedExamIds,  
      },  
      user: {  
        $in: matchedUserIds,  
      },  
    }).populate("exam").populate("user").sort({ createdAt: -1 });  
    res.send({  
      message: "Attempt fetched successfully",  
      data: reports,  
      success: true,  
    });  
  } catch (error) {  
    res.status(500).send({  
      message: error.message,  
      data: error,  
      success: false,  
    });  
  }  
});
```

```
//get all reports by user
```

```
router.post("/get-all-reports-by-user", authMiddleware, async (req, res) => {  
  try {
```

```

    const reports = await Report.find({ user: req.body.userId
}).populate("exam").populate("user").sort({ createdAt: -1 });
    res.send({
      message: "Attempt fetched successfully",
      data: reports,
      success: true,
    });
  } catch (error) {
    res.status(500).send({
      message: error.message,
      data: error,
      success: false,
    });
  }
});
});

module.exports = router;

```

## 9. usersRoute.js

```

const router = require('express').Router();
const User = require('../models/userModel');
const bcrypt = require('bcryptjs');
const jwt = require("jsonwebtoken");
const authMiddleware = require('../middlewares/authMiddleware');

// user registration

router.post("/register", async (req, res) => {
  try {
    // check if user already exists
    const userExists = await User.findOne({ email: req.body.email });
    if (userExists) {
      return res
        .status(200)
        .send({ message: "User already exists", success: false });
    }

    // hash password
    const salt = await bcrypt.genSalt(10);
    const hashedPassword = await bcrypt.hash(req.body.password, salt);
    req.body.password = hashedPassword;

    // create new user
    const newUser = new User(req.body);
    await newUser.save();
    res.send({

```

```

    message: "User created successfully",
    success: true,
  });
} catch (error) {
  res.status(500).send({
    message: error.message,
    data: error,
    success: false,
  });
}
});

// user login

router.post("/login", async (req, res) => {
  try {
    // check if user exists
    const user = await User.findOne({ email: req.body.email });
    if (!user) {
      return res
        .status(200)
        .send({ message: "User does not exist", success: false });
    }

    // check password
    const validPassword = await bcrypt.compare(
      req.body.password,
      user.password
    );
    if (!validPassword) {
      return res
        .status(200)
        .send({ message: "Invalid password", success: false });
    }

    const token = jwt.sign({ userId: user._id }, process.env.JWT_SECRET, {
      expiresIn: "1d",
    });

    res.send({
      message: "User logged in successfully",
      success: true,
      data: token,
    });
  } catch (error) {
    res.status(500).send({
      message: error.message,

```

```
    data: error,
    success: false,
  });
}
});

// get user info
router.post("/get-user-info", authMiddleware, async (req, res) => {
  try {
    const user = await User.findById(req.body.userId);
    res.send({
      message: "User info fetched successfully",
      success: true,
      data: user,
    });
  } catch (error) {
    res.status(500).send({
      message: error.message,
      data: error,
      success: false,
    });
  }
});

module.exports = router;
```