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CHENNAI

Fall Semester 2024-25

CodeIgniter: An Online Web Based IDE

(For Web Development)

Submitted to

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Full Stack Web Development (PMCA601L)

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Aim

"To provide an intuitive, lightweight, and efficient web-based Integrated Development Environment (IDE) for developers to seamlessly code, test, and debug HTML, CSS, and JavaScript projects, fostering creativity and productivity in web development."

Tech Used: (MERN Stack)

MERN Stack Overview:

- **MERN Definition**: MERN stands for MongoDB, Express.js, React.js, and Node.js, forming a full-stack JavaScript framework.
- **Database (MongoDB)**: A NoSQL database for storing data as JSON-like documents, ensuring scalability and flexibility.
- **Backend Framework (Express.js)**: Simplifies building robust APIs and server-side functionality.
- **Frontend Library (React.js)**: Used for creating dynamic, user-friendly interfaces with reusable components.
- **Server Runtime (Node.js)**: Executes JavaScript code on the server, enabling fast and efficient backend operations.
- **End-to-End JS**: Allows developers to use JavaScript for both frontend and backend, streamlining development.
- **Scalable**: Perfect for building scalable applications with modular architecture.
- **Popularity**: Widely adopted due to ease of learning, extensive community support, and open-source resources.
- **Flexibility**: Supports both small and large-scale application development.
- **Tool Ecosystem**: Compatible with modern tools like Vite, enhancing productivity.

Important Installation:

Frontend (React with Vite)

Libraries Used:

1. **React**: Core library for building UI.
    - Installation: npm install react react-dom
2. **React Router**: For managing routes.
    - Installation: npm install react-router-dom

3. **Axios**: For making HTTP requests to the backend.
    - Installation: npm install axios
4. **Tailwind CSS**: For styling (optional, can replace with another CSS framework).
    - Installation: npm install -D tailwindcss postcss autoprefixer

      npx tailwindcss init
5. **Vite**: Development tool for building React apps (already included with Vite setup).

Vite Project Setup:

npm create vite@latest my-project --template react

cd my-project

npm install

Backend (Node.js with Express)

Libraries Used:

1. **Express.js**: Backend framework.
    - Installation: npm install express
2. **Cors**: To handle cross-origin resource sharing.
    - Installation: npm install cors
3. **Body-Parser**: For parsing JSON and URL-encoded data.
    - Installation: npm install body-parser
4. **Dotenv**: For environment variable management.
    - Installation: npm install dotenv
5. **Mongoose**: For MongoDB interaction.
    - Installation: npm install mongoose
6. **Nodemon**: For automatic server restarting during development.
    - Installation (Development Dependency): npm install -D nodemon

Database (MongoDB)

Libraries Used:

1. **Mongoose**: Object Data Modeling (ODM) library for MongoDB.

- Installation: npm install mongoose

2. **MongoDB Driver** (optional, if not using Mongoose): Official MongoDB client.
    - Installation: npm install mongodb

Implementation:

Frontend (React file)

App.js

```
import React, {useState} from 'react'
import { BrowserRouter, Routes, Route, Navigate } from "react-router-dom";
import "./App.css"
import Home from './pages/Home';
import NoPage from './pages/NoPage';
import SignUp from './pages/SignUp';
import Login from './pages/Login';
import Editior from './pages/Editior';

const App = () => {
  let isLoggedIn = localStorage.getItem("isLoggedIn");
  return (
    <>
      <BrowserRouter>
        <Routes>
          <Route path='/' element={isLoggedIn ? <Home /> : <Navigate to="/login"/>} />
          <Route path='/signUp' element={<SignUp />} />
          <Route path='/login' element={<Login />} />
          <Route path='/editior/:projectID' element={isLoggedIn ? <Editior /> : <Navigate to="/login"/>} />
          <Route path="*" element={isLoggedIn ? <NoPage />: <Navigate to="/login"/>} />
        </Routes>
      </BrowserRouter>
    </>
  )
}

export default App
```

App.css

```
*{
  margin: 0;
  padding: 0;
```

```
}
body{
  margin: 0;
  padding: 0;
  box-sizing: border-box;
  background-color: #0D0C0C;
  color: #fff;
  overflow-x: hidden;
}
html{
  overflow-x: hidden;
}
.inputBox{
  width: 100%;
  background-color: #141414;
  border-radius: 5px;
  display: flex;
  align-items: center;
  margin-bottom: 15px;
}

.inputBox input{
  flex: 1;
  padding: 10px;
  border: none;
  outline: none;
  background-color: transparent;
  color: #fff;
  font-size: 16px;
}

.btnBlue{
  background-color: #00AEEF;
  color: #fff;
  padding: 10px 20px;
  border: none;
  border-radius: 5px;
  text-align: center;
  cursor: pointer;
  font-size: 16px;
}
.btnBlue:hover{
  background-color: #0086b3;
}
.grid{
```

```
  display: flex !important;
  flex-wrap: wrap !important;
  gap: 10px;
}

.lightMode{
  background-color: #fff !important;
  color: #000 !important;
};


.lightMode .navbar{
  background-color: #fff;
}

.lightMode .tabs{
  background-color: #f7f7f7;
}
.lightMode .tabs .tab{
  background-color: #c2c1c1;
  color: #000;
}

.lightMode .btn{
  background-color: #C2C1C1;
  color: #000;
}
```

Src/compoents/NavbarEditor.jsx

```
import React from 'react'
import logo from "../images/logo.png"
import { FiDownload } from "react-icons/fi";
import { FaRegFileCode } from "react-icons/fa";
import { FaFileCode } from "react-icons/fa";
import { Link } from 'react-router-dom';
import ListCard from './ListCard';



const EditiorNavbar = () => {
  return (
    <>
     <div className="EditorNavbar flex items-center justify-between px-[100px] h-[80px] bg-[#141414]">
       {/* Logo Section */}
       <div className="logo">
```

```
        <Link to="/">
          <img className="w-[60px] cursor-pointer" src={logo} alt="Logo" />
        </Link>
      </div>
      <p>File / <span className='text-[gray]'>Project</span></p>
      <i className='p-[8px] btn bg-black rounded-[5px] cursor-pointer text-[20px]'><FaFileCode /></i>
    </div>
   </>
  )
}

export default EditiorNavbar
```

src/components/Navbar.jsx

```
import React, { useEffect, useState } from 'react'
import logo from "../images/logo.png"
import { Link, useNavigate } from 'react-router-dom'
import Avatar from 'react-avatar';
import { MdLightMode } from "react-icons/md";
import { BsGridFill } from "react-icons/bs";
import { api_base_url, toggleClass } from '../helper';

const Navbar = ({ isGridLayout, setIsGridLayout }) => {

  const navigate = useNavigate();

  const [data, setData] = useState(null);
  const [error, setError] = useState("");;

  useEffect(() => {
    fetch(api_base_url + "/getUserDetails", {
      mode: "cors",
      method: "POST",
      headers: {
        "Content-Type": "application/json",
      },
      body: JSON.stringify({
        userId: localStorage.getItem("userId")
      })
    }).then(res => res.json()).then(data => {
      if (data.success) {
        setData(data.user);
      }
```

```
    else {
      setError(data.message);
    }
  })
}, [])

const logout = () => {
  localStorage.removeItem("userId");
  localStorage.removeItem("token");
  localStorage.removeItem("isLoggedIn");
  window.location.reload();
}

return (
  <>
    <div className="navbar flex items-center justify-between px-[100px] h-[80px] bg-[#141414]">
      <div className="logo">
        <img className='w-[70px] cursor-pointer' src={logo} alt="" />
      </div>
      <div className="links flex items-center gap-2">
        {/* <Link>Home</Link>
        <Link>About</Link>
        <Link>Contact</Link>
        <Link>Services</Link> */}
        <button onClick={logout} className='btnBlue !bg-red-500 min-w-[120px] ml-2 hover:!bg-red-
600'>Logout</button>
        <Avatar onClick={() => { toggleClass(".dropDownNavbar", "hidden") }} name={data ? data.name : ""}
size="40" round="50%" className=' cursor-pointer ml-2' />
      </div>

      <div className='dropDownNavbar hidden absolute right-[60px] top-[80px] shadow-lg shadow-black/50
p-[10px] rounded-lg bg-[#1A1919] w-[150px] h-[160px]'>
        <div className='py-[10px] border-b-[1px] border-b-[#fff]'>
          <h3 className='text-[17px]' style={{ lineHeight: 1 }}>{data ? data.name : ""}</h3>
        </div>
        <i className='flex items-center gap-2 mt-3 mb-2 cursor-pointer' style={{ fontStyle: "normal"
}}><MdLightMode className='text-[20px]' /> Light mode</i>
        <i onClick={() => setIsGridLayout(!isGridLayout)} className='flex items-center gap-2 mt-3 mb-2
cursor-pointer' style={{ fontStyle: "normal" }}><BsGridFill className='text-[20px]' /> {isGridLayout ?
"List" : "Grid"} layout</i>
      </div>
    </div>
  </>
)
}
```

```
export default Navbar
```

src/components/ListCard.jsx

```
import React, { useState } from 'react'
import img from "../images/code.png"
import deleteImg from "../images/delete.png"
import { api_base_url } from '../helper';
import { useNavigate } from 'react-router-dom';

const ListCard = ({item}) => {
  const navigate = useNavigate();
  const [isDeleteModelShow, setIsDeleteModelShow] = useState(false);

  const deleteProj = (id) => {
    fetch(api_base_url + "/deleteProject",{
      mode: "cors",
      method: "POST",
      headers: {
        "Content-Type": "application/json",
      },
      body: JSON.stringify({
        progId: id,
        userId: localStorage.getItem("userId")
      })
    }).then(res=>res.json()).then(data=>{
      if(data.success){
        setIsDeleteModelShow(false)
        window.location.reload()
      }else{
        alert(data.message)
        setIsDeleteModelShow(false)
      }
    })
  }
  return (
    <>
      <div className="listCard mb-2 w-[full] flex items-center justify-between p-[10px] bg-[#141414] cursor-
pointer rounded-lg hover:bg-[#202020]">
        <div onClick={()=>{navigate(`/editior/${item._id}`)}} className='flex items-center gap-2'>
          <img className='w-[80px]' src={img} alt="" />
          <div>
            <h3 className='text-[20px]'>{item.title}</h3>
```

```
          <p className='text-[gray] text-[14px]'>Created in {new Date(item.date).toDateString()}</p>
        </div>
       </div>
       <div>
        <img onClick={()=>{setIsDeleteModelShow(true)}} className='w-[30px] cursor-pointer mr-4'
src={deleteImg} alt="" />
       </div>
      </div>

     {
       isDeleteModelShow ? <div className="model fixed top-0 left-0 w-screen h-screen bg-[rgba(0,0,0,0.1)]
flex justify-center items-center flex-col">
        <div className="mainModel w-[25vw] h-[25vh] bg-[#141414] rounded-lg p-[20px]">
          <h3 className='text-3xl'>Do you want to delete <br />
            this project</h3>
          <div className='flex w-full mt-5 items-center gap-[10px]'>
            <button onClick={()=>{deleteProj(item._id)}} className='p-[10px] rounded-lg bg-[#FF4343] text-
white cursor-pointer min-w-[49%]'>Delete</button>
            <button onClick={()=>{setIsDeleteModelShow(false)}} className='p-[10px] rounded-lg bg-
[#1A1919] text-white cursor-pointer min-w-[49%]'>Cancel</button>
          </div>
        </div>
       </div> : ""
     }
    </>
  )
}

export default ListCard
```

src/components/GridList.jsx

```
import React, { useState } from 'react'
import deleteImg from "../images/delete.png"
import codeImg from "../images/code.png"
import { useNavigate } from 'react-router-dom';

const GridCard = ({item}) => {
  const [isDeleteModelShow, setIsDeleteModelShow] = useState(false);
  const navigate = useNavigate();

  return (
    <>
```

```
    <div className="gridCard bg-[#141414] w-[270px] p-[10px] h-[180px] cursor-pointer hover:bg-
[#202020] rounded-lg shadow-lg shadow-black/50">
      <div onClick={()=>{navigate(`/editior/${item._id}`)}}>
       <img className="w-[90px]" src={codeImg} alt="" />
       <h3 className='text-[20px] w-[90%] line-clamp-1'>{item.title}</h3>
      </div>
       <div className='flex items-center justify-between'>
         <p className='text-[14px] text-[gray]'>Created in {new Date(item.date).toDateString()}</p>
         <img onClick={()=>{setIsDeleteModelShow(true)}} className='w-[30px] cursor-pointer'
src={deleteImg} alt="" />
       </div>
     </div>

     {
      isDeleteModelShow ? <div className="model fixed top-0 left-0 w-screen h-screen bg-[rgba(0,0,0,0.1)]
flex justify-center items-center flex-col">
        <div className="mainModel w-[25vw] h-[25vh] bg-[#141414] rounded-lg p-[20px]">
          <h3 className='text-3xl'>Do you want to delete <br />
            this project</h3>
          <div className='flex w-full mt-5 items-center gap-[10px]'>
            <button className='p-[10px] rounded-lg bg-[#FF4343] text-white cursor-pointer min-w-
[49%]'>Delete</button>
            <button onClick={()=>{setIsDeleteModelShow(false)}} className='p-[10px] rounded-lg bg-
[#1A1919] text-white cursor-pointer min-w-[49%]'>Cancel</button>
          </div>
        </div>
      </div> : ""
     }
    </>
  )
}

export default GridCard
```

src/pages/Editor.jsx

```
import React, { useEffect, useState } from 'react';
import EditiorNavbar from '../components/EditiorNavbar';
import Editor from '@monaco-editor/react';
import { MdLightMode } from 'react-icons/md';
import { AiOutlineExpandAlt } from "react-icons/ai";
import { api_base_url } from '../helper';
import { useParams } from 'react-router-dom';
```

```
const Editior = () => {
  const [tab, setTab] = useState("html");
  const [isLightMode, setIsLightMode] = useState(false);
  const [isExpanded, setIsExpanded] = useState(false);
  const [htmlCode, setHtmlCode] = useState("<h1>Hello world</h1>");
  const [cssCode, setCssCode] = useState("body { background-color: #f4f4f4; }");
  const [jsCode, setJsCode] = useState("// some comment");

  // Extract projectID from URL using useParams
  const { projectID } = useParams();

  const changeTheme = () => {
    const editorNavbar = document.querySelector(".EditiorNavbar");
    if (isLightMode) {
      editorNavbar.style.background = "#141414";
      document.body.classList.remove("lightMode");
      setIsLightMode(false);
    } else {
      editorNavbar.style.background = "#fff";
      document.body.classList.add("lightMode");
      setIsLightMode(true);
    }
  };

  const run = () => {
    const html = htmlCode;
    const css = `<style>${cssCode}</style>`;
    const js = `<script>${jsCode}</script>`;
    const iframe = document.getElementById("iframe");

    if (iframe) {
      iframe.srcdoc = html + css + js;
    }
  };

  useEffect(() => {
    setTimeout(() => {
      run();
    }, 200);
  }, [htmlCode, cssCode, jsCode]);

  useEffect(() => {
    fetch(api_base_url + "/getProject", {
      mode: "cors",
      method: "POST",
```

```
    headers: {
      "Content-Type": "application/json"
    },
    body: JSON.stringify({
      userId: localStorage.getItem("userId"),
      projId: projectID // Use projectID here
    })
  })
    .then(res => res.json())
    .then(data => {
      setHtmlCode(data.project.htmlCode);
      setCssCode(data.project.cssCode);
      setJsCode(data.project.jsCode);
    });
}, [projectID]);

useEffect(() => {
  const handleKeyDown = (event) => {
    if (event.ctrlKey && event.key === 's') {
      event.preventDefault(); // Prevent the default save file dialog

      // Ensure that projectID and code states are updated and passed to the fetch request
      fetch(api_base_url + "/updateProject", {
        mode: "cors",
        method: "POST",
        headers: {
          "Content-Type": "application/json"
        },
        body: JSON.stringify({
          userId: localStorage.getItem("userId"),
          projId: projectID,  // Make sure projectID is correct
          htmlCode: htmlCode,  // Passing the current HTML code
          cssCode: cssCode,    // Passing the current CSS code
          jsCode: jsCode       // Passing the current JS code
        })
      })
      .then(res => res.json())
      .then(data => {
        if (data.success) {
          alert("Project saved successfully");
        } else {
          alert("Something went wrong");
        }
      })
      .catch((err) => {
```

```
        console.error("Error saving project:", err);
        alert("Failed to save project. Please try again.");
      });
    }
  };

  window.addEventListener('keydown', handleKeyDown);

  // Clean up the event listener on component unmount
  return () => {
    window.removeEventListener('keydown', handleKeyDown);
  };
 }, [projectID, htmlCode, cssCode, jsCode]);


 return (
  <>
   <EditiorNavbar />
   <div className="flex">
    <div className={`left w-[${isExpanded ? "100%" : "50%"}]`}>
     <div className="tabs flex items-center justify-between gap-2 w-full bg-[#1A1919] h-[50px] px-
[40px]">
      <div className="tabs flex items-center gap-2">
       <div onClick={() => { setTab("html"); }} className="tab cursor-pointer p-[6px] bg-[#1E1E1E] px-
[10px] text-[15px]">HTML</div>
       <div onClick={() => { setTab("css"); }} className="tab cursor-pointer p-[6px] bg-[#1E1E1E] px-
[10px] text-[15px]">CSS</div>
       <div onClick={() => { setTab("js"); }} className="tab cursor-pointer p-[6px] bg-[#1E1E1E] px-
[10px] text-[15px]">JavaScript</div>
      </div>

      <div className="flex items-center gap-2">
       {/* <i className="text-[20px] cursor-pointer" onClick={changeTheme}><MdLightMode /></i> */}
       <i className="text-[20px] cursor-pointer" onClick={() => { setIsExpanded(!isExpanded);
}}><AiOutlineExpandAlt /></i>
      </div>
     </div>

     {tab === "html" ? (
      <Editor
       onChange={(value) => {
        setHtmlCode(value || "");
        run();
       }}
       height="82vh"
```

```
            theme={isLightMode ? "vs-light" : "vs-dark"}
            language="html"
            value={htmlCode}
          />
        ) : tab === "css" ? (
          <Editor
            onChange={(value) => {
              setCssCode(value || "");
              run();
            }}
            height="82vh"
            theme={isLightMode ? "vs-light" : "vs-dark"}
            language="css"
            value={cssCode}
          />
        ) : (
          <Editor
            onChange={(value) => {
              setJsCode(value || "");
              run();
            }}
            height="82vh"
            theme={isLightMode ? "vs-light" : "vs-dark"}
            language="javascript"
            value={jsCode}
          />
        )}
      </div>

      {!isExpanded && (
        <iframe
          id="iframe"
          className="w-[50%] min-h-[82vh] bg-[#fff] text-black"
          title="output"
        />
      )}
    </div>
  </>
 );
};

export default Editior;
```

src/pages/Home.jsx

```
import React, { useEffect, useState } from 'react'
import Navbar from '../components/Navbar'
import ListCard from '../components/ListCard';
import GridCard from '../components/GridCard';
import { api_base_url } from '../helper';
import { useNavigate } from 'react-router-dom';

const Home = () => {

  const [data, setData] = useState(null);
  const [error, setError] = useState("");
  const [searchQuery, setSearchQuery] = useState(''); // State for search query
  const [projTitle, setProjTitle] = useState("");
  const navigate = useNavigate();
  const [isCreateModelShow, setIsCreateModelShow] = useState(false);

  // Filter data based on search query
  const filteredData = data ? data.filter(item =>
   item.title.toLowerCase().includes(searchQuery.toLowerCase()) // Case insensitive filtering
  ) : [];

  const createProj = (e) => {
    if (projTitle === "") {
      alert("Please Enter Project Title");
    } else {
      fetch(api_base_url + "/createProject", {
        mode: "cors",
        method: "POST",
        headers: {
          "Content-Type": "application/json",
        },
        body: JSON.stringify({
          title: projTitle,
          userId: localStorage.getItem("userId")
        })
      }).then(res => res.json()).then(data => {
        if (data.success) {
          setIsCreateModelShow(false);
          setProjTitle("");
          alert("Project Created Successfully");
          navigate(`/editior/${data.projectId}`);
        } else {
          alert("Something Went Wrong");
```

```
      }
    });
  }
};

const getProj = () => {
  fetch(api_base_url + "/getProjects", {
    mode: "cors",
    method: "POST",
    headers: {
      "Content-Type": "application/json",
    },
    body: JSON.stringify({
      userId: localStorage.getItem("userId")
    })
  }).then(res => res.json()).then(data => {
    if (data.success) {
      setData(data.projects);
    } else {
      setError(data.message);
    }
  });
};

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


const [userData, setUserData] = useState(null);
const [userError, setUserError] = useState("");;

useEffect(() => {
  fetch(api_base_url + "/getUserDetails", {
    mode: "cors",
    method: "POST",
    headers: {
      "Content-Type": "application/json",
    },
    body: JSON.stringify({
      userId: localStorage.getItem("userId")
    })
  }).then(res => res.json()).then(data => {
    if (data.success) {
      setUserData(data.user);
```

```
    }
    else {
      setUserError(data.message);
    }
  })
}, [])

const [isGridLayout, setIsGridLayout] = useState(false);


return (
  <>
    <Navbar isGridLayout={isGridLayout} setIsGridLayout={setIsGridLayout} />
    <div className='flex items-center justify-between px-[100px] my-[40px]'>
      <h2 className='text-2xl'>Hi, {userData ? userData.username : ""} 👋</h2>
      <div className='flex items-center gap-1'>
        {/* Search Bar */}
        <div className="inputBox !w-[350px]">
          <input
            type="text"
            placeholder='Search Here... !'
            value={searchQuery} // Bind search input to searchQuery state
            onChange={(e) => setSearchQuery(e.target.value)} // Update searchQuery on input change
          />
        </div>
        <button onClick={() => { setIsCreateModelShow(true) }} className='btnBlue !bg-[#EE4323] rounded-
[5px] mb-4 text-[20px] !p-[5px] !px-[10px]'>+</button>
      </div>
    </div>

    {/* Project Display */}
    <div className="cards">
      {
        isGridLayout ?
          <div className='grid px-[100px]'>
            {
              filteredData.length > 0 ? filteredData.map((item, index) => (
                <GridCard key={index} item={item} />
              )) : <p>No projects found</p>
            }
          </div>
          : <div className='list px-[100px]'>
            {
              filteredData.length > 0 ? filteredData.map((item, index) => (
                <ListCard key={index} item={item} />
```

```
            )) : <p>No projects found</p>
          }
        </div>
      }
    </div>

    {/* Modal for Creating a New Project */}
    {isCreateModelShow &&
      <div className="createModelCon fixed top-0 left-0 right-0 bottom-0 w-screen h-screen bg-
[rgb(0,0,0,0.1)] flex items-center justify-center">
        <div className="createModel w-[25vw] h-[27vh] shadow-lg shadow-black/50 bg-[#141414] rounded-
[10px] p-[20px]">
          <h3 className='text-2xl'>Create New Project</h3>
          <div className="inputBox !bg-[#202020] mt-4">
            <input
              onChange={(e) => { setProjTitle(e.target.value) }}
              value={projTitle}
              type="text"
              placeholder='Project Title'
            />
          </div>
          <div className='flex items-center gap-[10px] w-full mt-2'>
            <button onClick={createProj} className='btnBlue !bg-[#EE4323] rounded-[5px] w-[49%] mb-4 !p-
[5px] !px-[10px] !py-[10px]'>Create</button>
            <button onClick={() => { setIsCreateModelShow(false) }} className='btnBlue !bg-[#1A1919]
rounded-[5px] mb-4 w-[49%] !p-[5px] !px-[10px] !py-[10px]'>Cancel</button>
          </div>
        </div>
      </div>
    }
  </>
 );
}

export default Home;
```

src/pages/Login.jsx

```
import React, { useState } from 'react'
import logo from "../images/logo.png"
import { Link, useNavigate } from 'react-router-dom';
import image from "../images/authP.jpg";
import { api_base_url } from '../helper';
```

```
const Login = () => {
  const [email, setEmail] = useState("");
  const [pwd, setPwd] = useState("");

  const [error, setError] = useState("");

  const navigate = useNavigate();

  const submitForm = (e) => {
    e.preventDefault();
    fetch(api_base_url + "/login",{
      mode: "cors",
      method: "POST",
      headers: {
        "Content-Type": "application/json"
      },
      body: JSON.stringify({
        email: email,
        password: pwd
      })
    }).then(res => res.json()).then(data => {
      if(data.success === true){
        localStorage.setItem("token", data.token);
        localStorage.setItem("isLoggedIn", true);
        localStorage.setItem("userId", data.userId);
        setTimeout(() => {
          window.location.href = "/"
        }, 200);
      } else {
        setError(data.message);
      }
    })
  }

  return (
    <>
      <div className="container w-screen min-h-screen flex items-center justify-between pl-[100px]">
        <div className="left w-[35%]">
          <img className='w-[200px]' src={logo} alt="" />
          <form onSubmit={submitForm} className='w-full mt-[60px]' action="">

            <div className="inputBox">
              <input required onChange={(e)=>{setEmail(e.target.value)}} value={email} type="email"
placeholder='Email'/>
```

```
          </div>

          <div className="inputBox">
            <input required onChange={(e)=>{setPwd(e.target.value)}} value={pwd} type="password"
placeholder='Password'/>
          </div>

          <p className='text-[gray]'>Don't have an account <Link to="/signUp" className='text-
[#EE4323]'>Sign Up</Link></p>

          <p className='text-red-500 text-[14px] my-2'>{error}</p>

          <button className="btnBlue !bg-[#EE4323] w-full mt-[20px]">Login</button>
        </form>
      </div>
      <div className="right w-[55%]">
        <img className='h-[100vh] w-[100%] object-cover' src={image} alt="" />
      </div>
    </div>
   </>
  )
}

export default Login
```

src/pages/Signup.jsx

```
import React, { useState } from 'react'
import logo from "../images/logo.png"
import { Link, useNavigate } from 'react-router-dom';
import image from "../images/authP.jpg";
import { api_base_url } from '../helper';

const SignUp = () => {
  const [username, setUsername] = useState("");
  const [name, setName] = useState("");
  const [email, setEmail] = useState("");
  const [pwd, setPwd] = useState("");

  const [error, setError] = useState("");

  const navigate = useNavigate();

  const submitForm = (e) => {
```

```
    e.preventDefault();
    fetch(api_base_url + "/signUp",{
      mode: "cors",
      method: "POST",
      headers: {
        "Content-Type": "application/json"
      },
      body: JSON.stringify({
        username: username,
        name: name,
        email: email,
        password: pwd
      })
    }).then((res)=>res.json()).then((data)=>{
      if(data.success === true){
        alert("Account created successfully");
        navigate("/login");
      }
      else{
        setError(data.message);
      }
    })
  }

  return (
    <>
      <div className="container w-screen min-h-screen flex items-center justify-between pl-[100px]">
        <div className="left w-[35%]">
          <img className='w-[200px]' src={logo} alt="" />
          <form onSubmit={submitForm} className='w-full mt-[60px]' action="">
            <div className="inputBox">
              <input required onChange={(e)=>{setUsername(e.target.value)}} value={username} type="text"
placeholder='Username'/>
            </div>

            <div className="inputBox">
              <input required onChange={(e)=>{setName(e.target.value)}} value={name} type="text"
placeholder='Name'/>
            </div>

            <div className="inputBox">
              <input required onChange={(e)=>{setEmail(e.target.value)}} value={email} type="email"
placeholder='Email'/>
            </div>
```

```
          <div className="inputBox">
            <input required onChange={(e)=>{setPwd(e.target.value)}} value={pwd} type="password"
placeholder='Password'/>
          </div>

          <p className='text-[gray]'>Already have an account <Link to="/login" className='text-
[#EE4323]'>login</Link></p>

          <p className='text-red-500 text-[14px] my-2'>{error}</p>

          <button className="btnBlue !bg-[#EE4323] w-full mt-[20px]">Sign Up</button>
        </form>
      </div>
      <div className="right w-[55%]">
        <img className='h-[100vh] w-[100%] object-cover' src={image} alt="" />
      </div>
    </div>
  </>
 )
}

export default SignUp
```

src/pages/Nopage.jsx

```
import React from 'react'

const NoPage = () => {
 return (
  <div>NoPage</div>
 )
}

export default NoPage
```

BackEnd (Node.js and express)

App.js

```
var createError = require('http-errors');
var express = require('express');
var path = require('path');
var cookieParser = require('cookie-parser');
var logger = require('morgan');
```

```
var cors = require("cors");

var indexRouter = require('./routes/index');
var usersRouter = require('./routes/users');

var app = express();

// view engine setup
app.set('views', path.join(__dirname, 'views'));
app.set('view engine', 'ejs');

app.use(logger('dev'));
app.use(express.json());
app.use(express.urlencoded({ extended: false }));
app.use(cookieParser());
app.use(express.static(path.join(__dirname, 'public')));

app.use(cors());

app.use('/', indexRouter);
app.use('/users', usersRouter);

// catch 404 and forward to error handler
app.use(function(req, res, next) {
  next(createError(404));
});

// error handler
app.use(function(err, req, res, next) {
  // set locals, only providing error in development
  res.locals.message = err.message;
  res.locals.error = req.app.get('env') === 'development' ? err : {};

  // render the error page
  res.status(err.status || 500);
  res.render('error');
});

module.exports = app;
```

projectModel.js

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

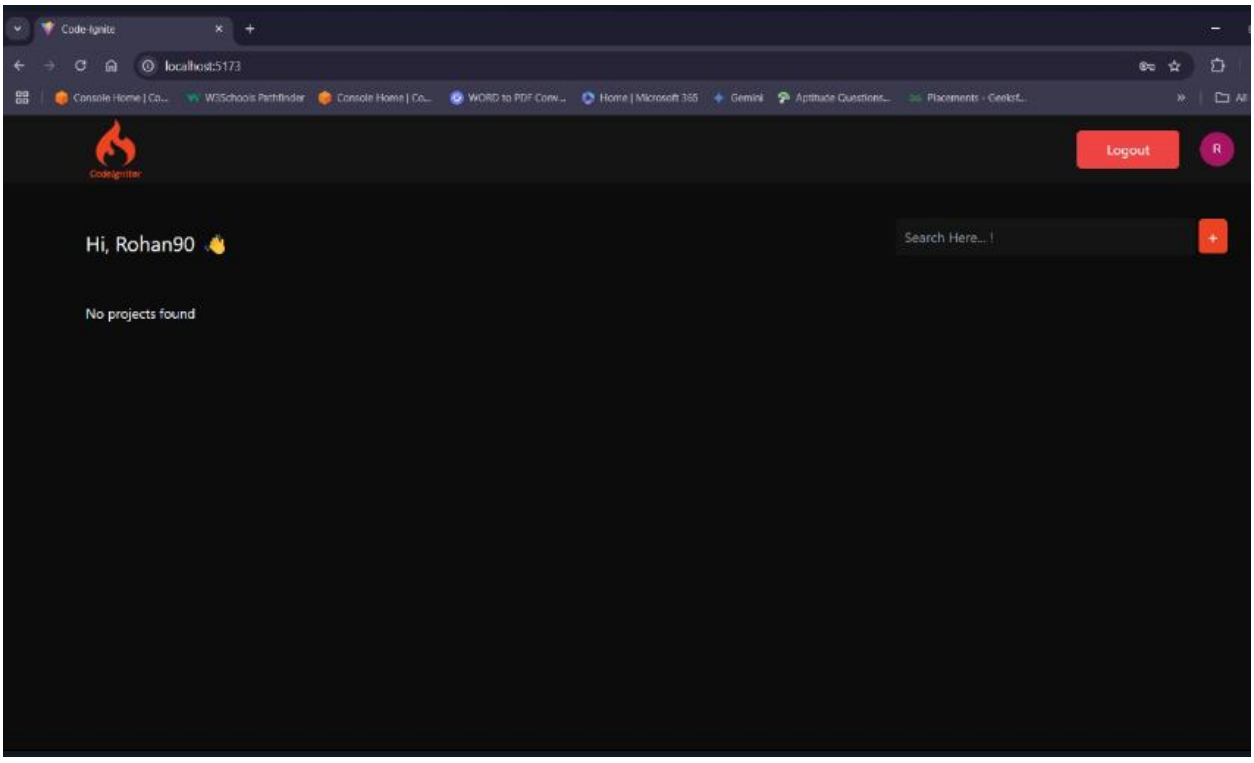
```
mongoose.connect('mongodb://127.0.0.1:27017/codeIDE');

const projectSchema = new mongoose.Schema({
  title: String,
  createdBy: String,
  date: {
    type: Date,
    default: Date.now
  },
  htmlCode: {
    type: String,
    default: `
    <!DOCTYPE html>
    <html lang="en">
    <head>
      <meta charset="UTF-8">
      <meta http-equiv="X-UA-Compatible" content="IE=edge">
      <meta name="viewport" content="width=device-width, initial-scale=1.0">
      <title>Document</title>
    </head>
    <body>

    </body>
    </html>`
  },
  cssCode: {
    type: String,
    default: `
    body{
      margin: 0;
      padding: 0;
      box-sizing: border-box;
    }`
  },
  jsCode: {
    type: String,
    default: 'console.log("Hello World")'
  }
});

module.exports = mongoose.model("Project", projectSchema);
```

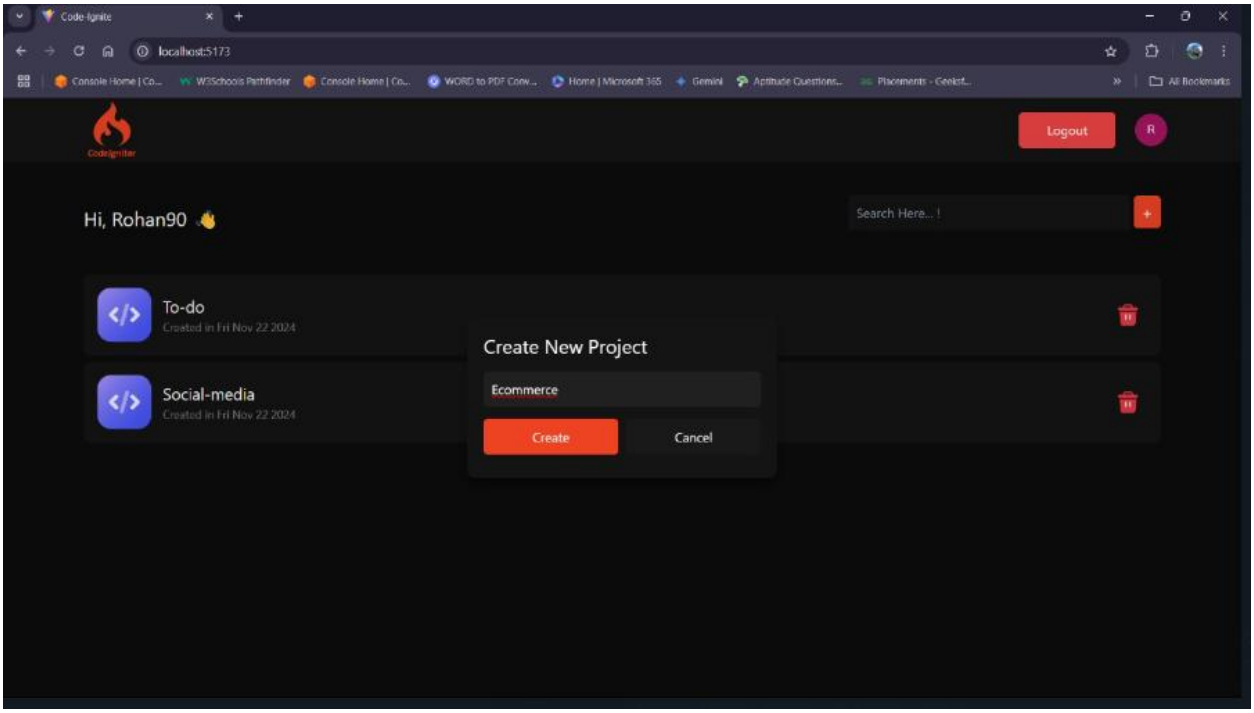
userModel.jsx

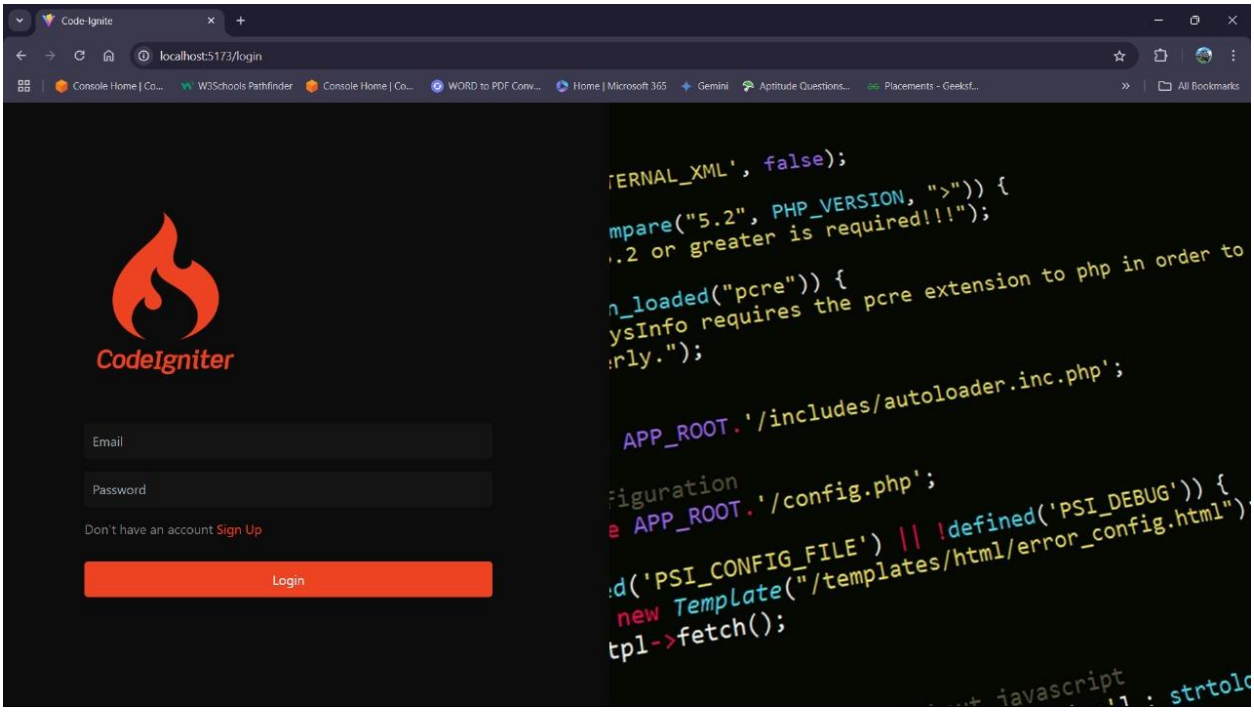
```
let mongoose = require('mongoose');

mongoose.connect('mongodb://127.0.0.1:27017/codeIDE');

let userSchema = new mongoose.Schema({
```

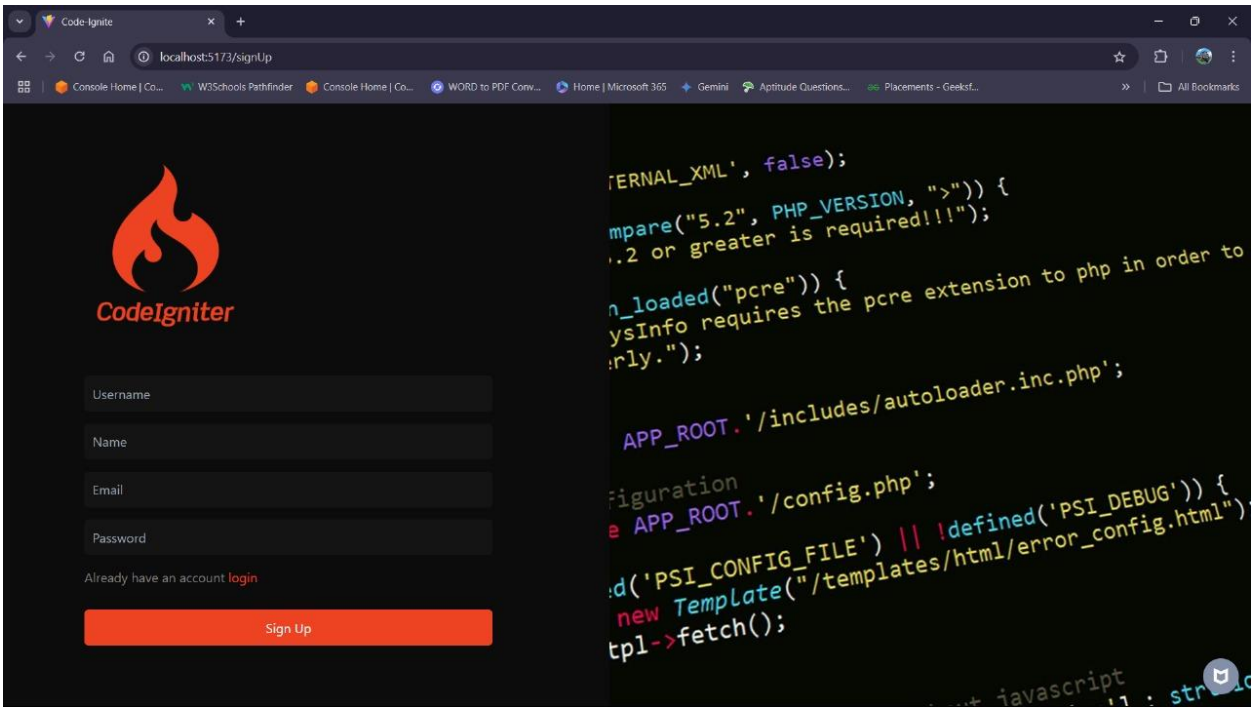
```
  name: String,
  username: String,
  email: String,
  password: String,
  date:{
    type: Date,
    default: Date.now
  },
  isBlocked: {
    type: Boolean,
    default: false
  },
  isAdmin: {
    type: Boolean,
    default: false
  }
});

module.exports = mongoose.model('User', userSchema); // 'User' is the name of the collection
```

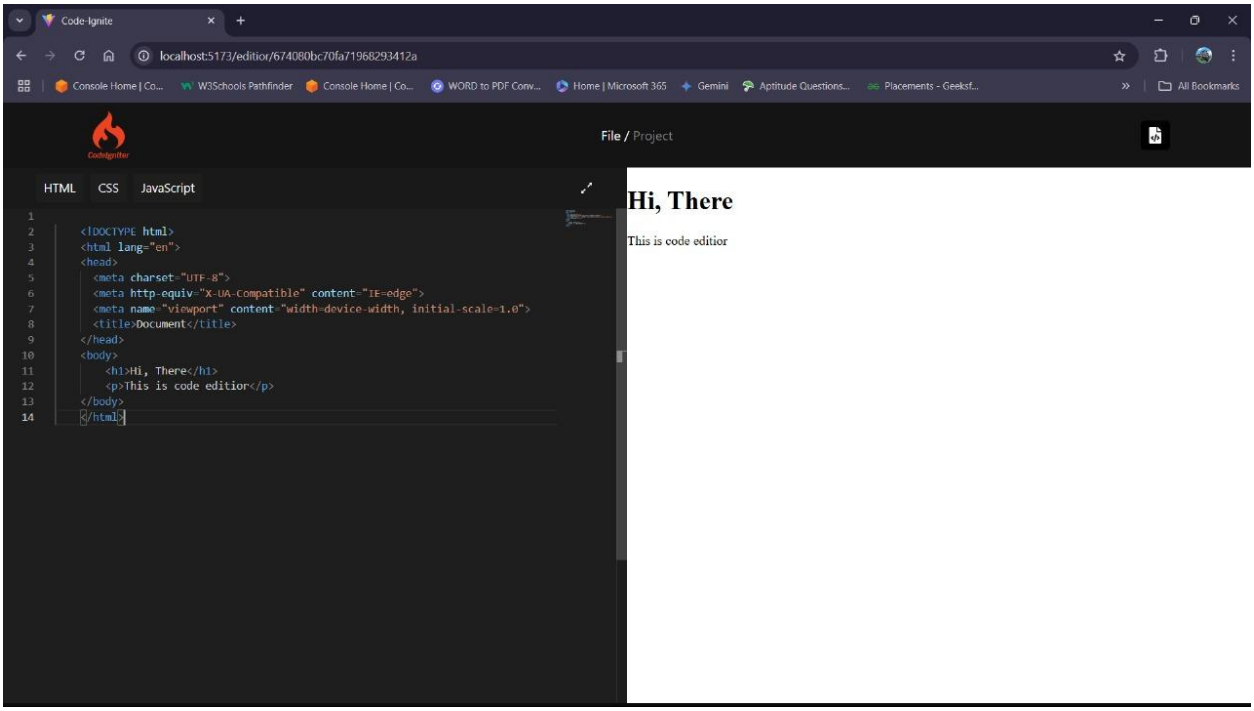
output:

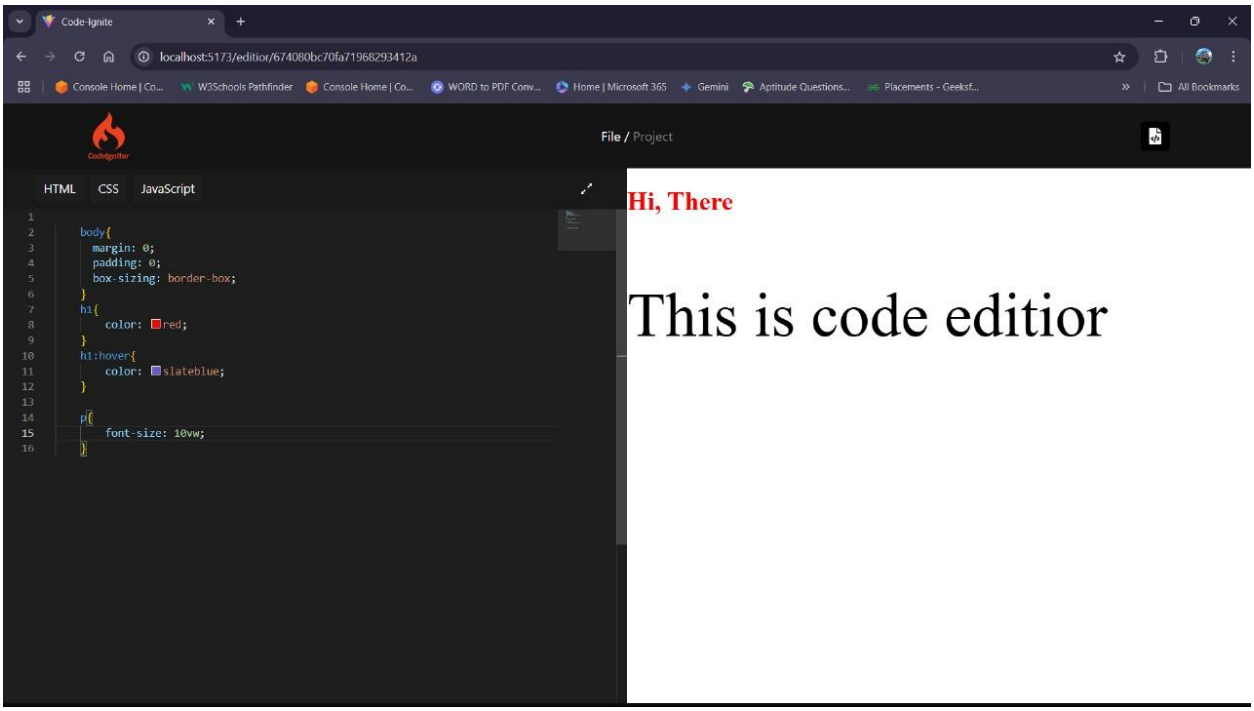


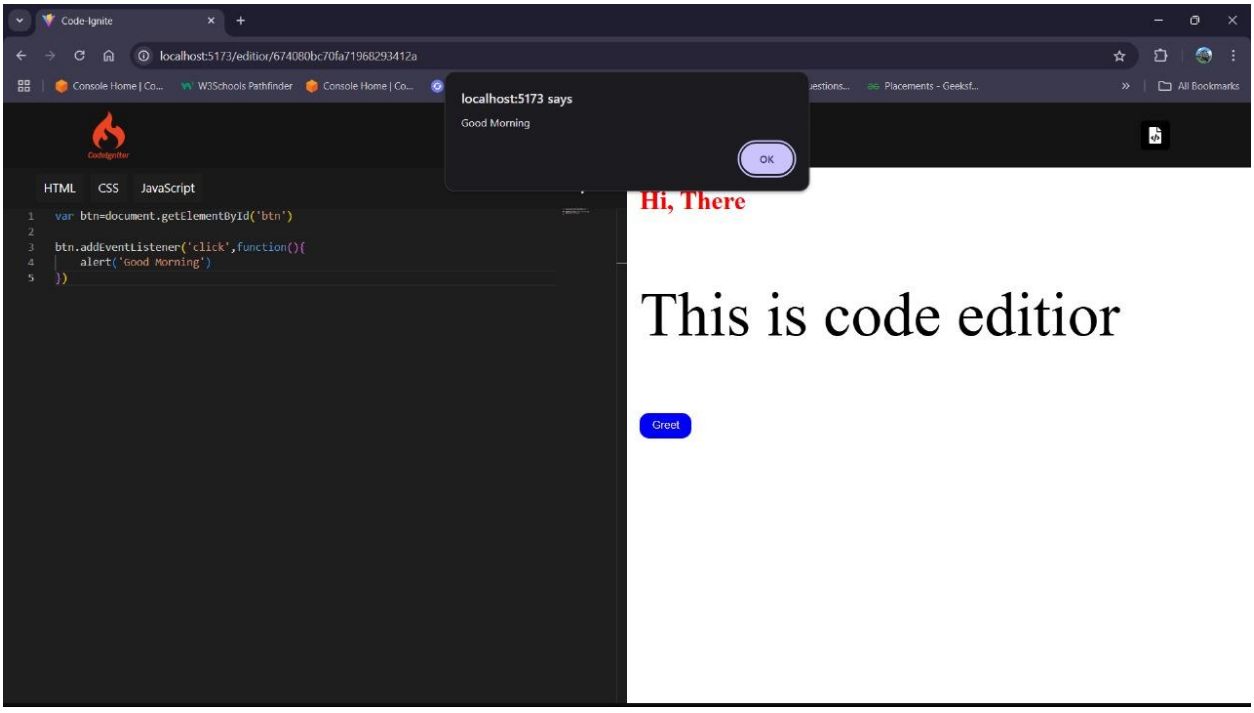

Code-Ignite
localhost:5173
Logout
Hi, Rohan90
Search Here... !
To-do
Created in Fri Nov 22 2024
Social-media
Created in Fri Nov 22 2024
Create New Project
Ecommerce
Create
Cancel


Code-Ignite
localhost:5173/login
CodeIgniter
Email
Password
Don't have an account Sign Up
Login
'ERNAL_XML', false);
mpare("5.2", PHP_VERSION, ">")) {
.2 or greater is required!!!");
n_loaded("pcre")) {
ysInfo requires the pcre extension to php in order to
rly.");
APP_ROOT.'/includes/autoloader.inc.php';
figuration
e APP_ROOT.'/config.php';
d('PSI_CONFIG_FILE') || !defined('PSI_DEBUG')) {
new Template("/templates/html/error_config.html");
tpl->fetch();

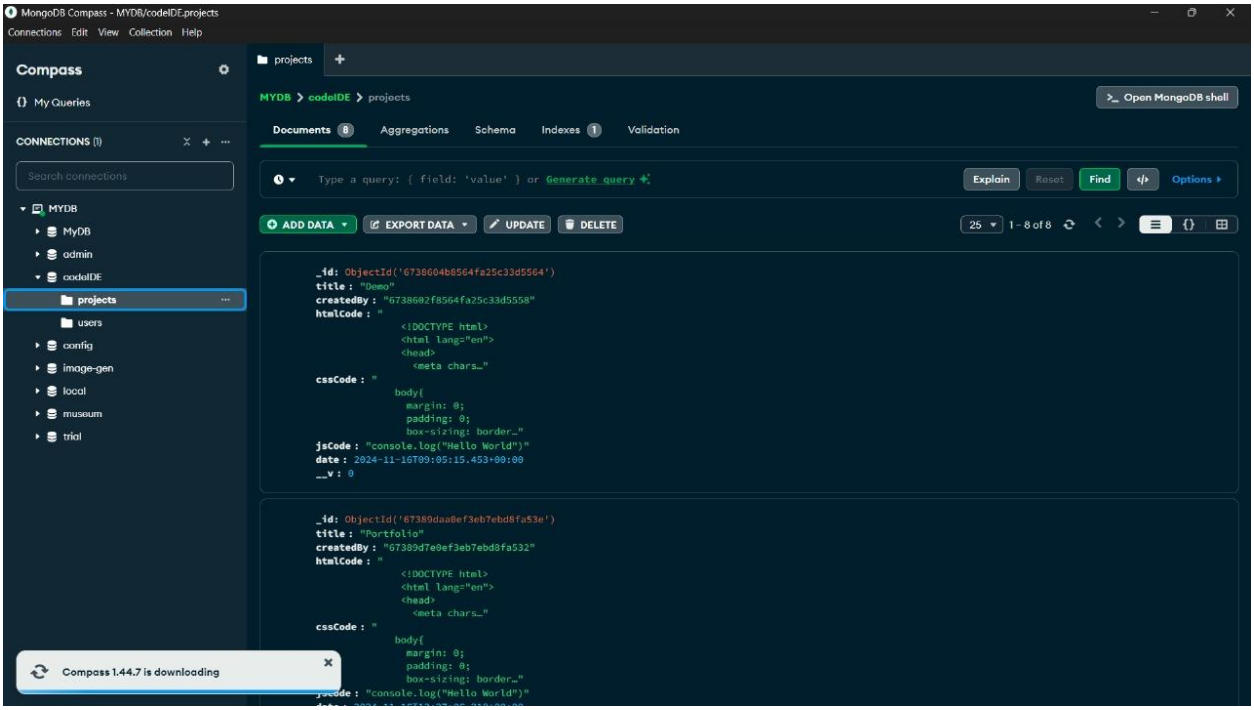

Code-Ignite
localhost:5173/signUp
CodeIgniter
Username
Name
Email
Password
Already have an account login
Sign Up
TERNAL_XML', false);
mpare("5.2", PHP_VERSION, ">")) {
.2 or greater is required!!!");
n_loaded("pcre")) {
ysInfo requires the pcre extension to php in order to
rly.");
APP_ROOT.'/includes/autoloader.inc.php';
figuration
e APP_ROOT.'/config.php';
d('PSI_CONFIG_FILE') || !defined('PSI_DEBUG')) {
new Template("/templates/html/error_config.html");
tpl->fetch();


Code-Ignite
localhost:5173/editior/674080bc70fa71968293412a
File / Project
HTML
CSS
JavaScript
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
</head>
<body>
<h1>Hi, There</h1>
This is code editior
</body>
</html>
Hi, There
This is code editior


Code-Ignite
localhost:5173/editior/674080bc70fa71968293412a
File / Project
HTML
CSS
JavaScript
body{
margin: 0;
padding: 0;
box-sizing: border-box;
}
h1{
color: red;
}
h1:hover{
color: slateblue;
}
p{
font-size: 10vw;
}
Hi, There
This is code editior


Code-Ignite
localhost:5173/editior/674080bc70fa71968293412a
localhost:5173 says
Good Morning
OK
HTML
CSS
JavaScript
var btn=document.getElementById('btn')
btn.addEventListener('click',function(){
alert('Good Morning')
})
Hi, There
This is code editior
Greet

MongoDB Compass: MYDB -> codeIDE -> projects



MongoDB Compass: MYDB -> codeIDE -> users