

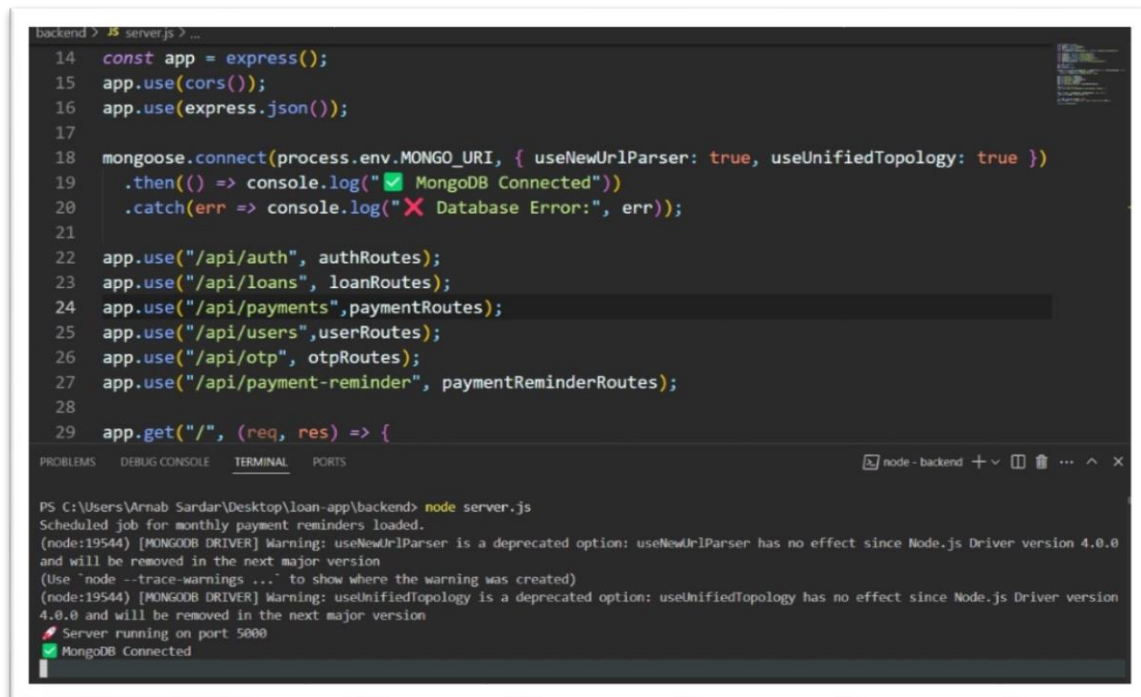
Task 1:

Solution: Git hub link: <https://github.com/surajdas2001/loan-app.git>

Task 2:

a)

Solution:



```
backend > .\server.js ...
14 const app = express();
15 app.use(cors());
16 app.use(express.json());
17
18 mongoose.connect(process.env.MONGO_URI, { useNewUrlParser: true, useUnifiedTopology: true })
19   .then(() => console.log("✅ MongoDB Connected"))
20   .catch(err => console.log("❌ Database Error:", err));
21
22 app.use("/api/auth", authRoutes);
23 app.use("/api/loans", loanRoutes);
24 app.use("/api/payments", paymentRoutes);
25 app.use("/api/users", userRoutes);
26 app.use("/api/otp", otpRoutes);
27 app.use("/api/payment-reminder", paymentReminderRoutes);
28
29 app.get("/", (req, res) => {
  ...
})
```

PROBLEMS DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\Annab Sardar\Desktop\loan-app\backend> node server.js

Scheduled job for monthly payment reminders loaded.

(node:19544) [MONGODB DRIVER] Warning: useNewUrlParser is a deprecated option: useNewUrlParser has no effect since Node.js Driver version 4.0.0 and will be removed in the next major version

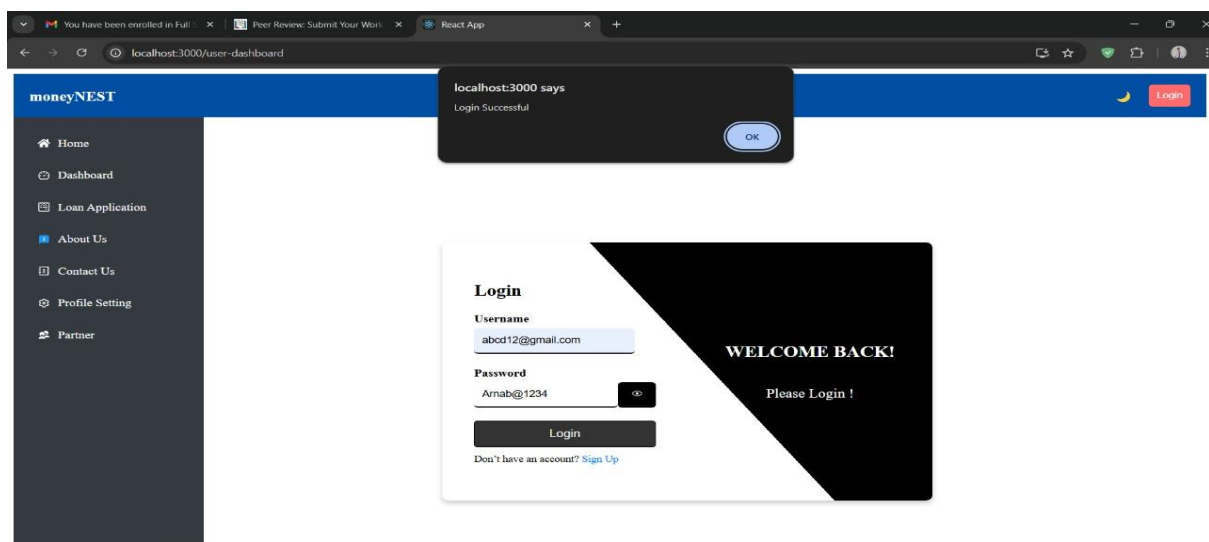
(node:19544) [MONGODB DRIVER] Warning: useUnifiedTopology is a deprecated option: useUnifiedTopology has no effect since Node.js Driver version 4.0.0 and will be removed in the next major version

Server running on port 5000

✅ MongoDB Connected

b)

Solution:



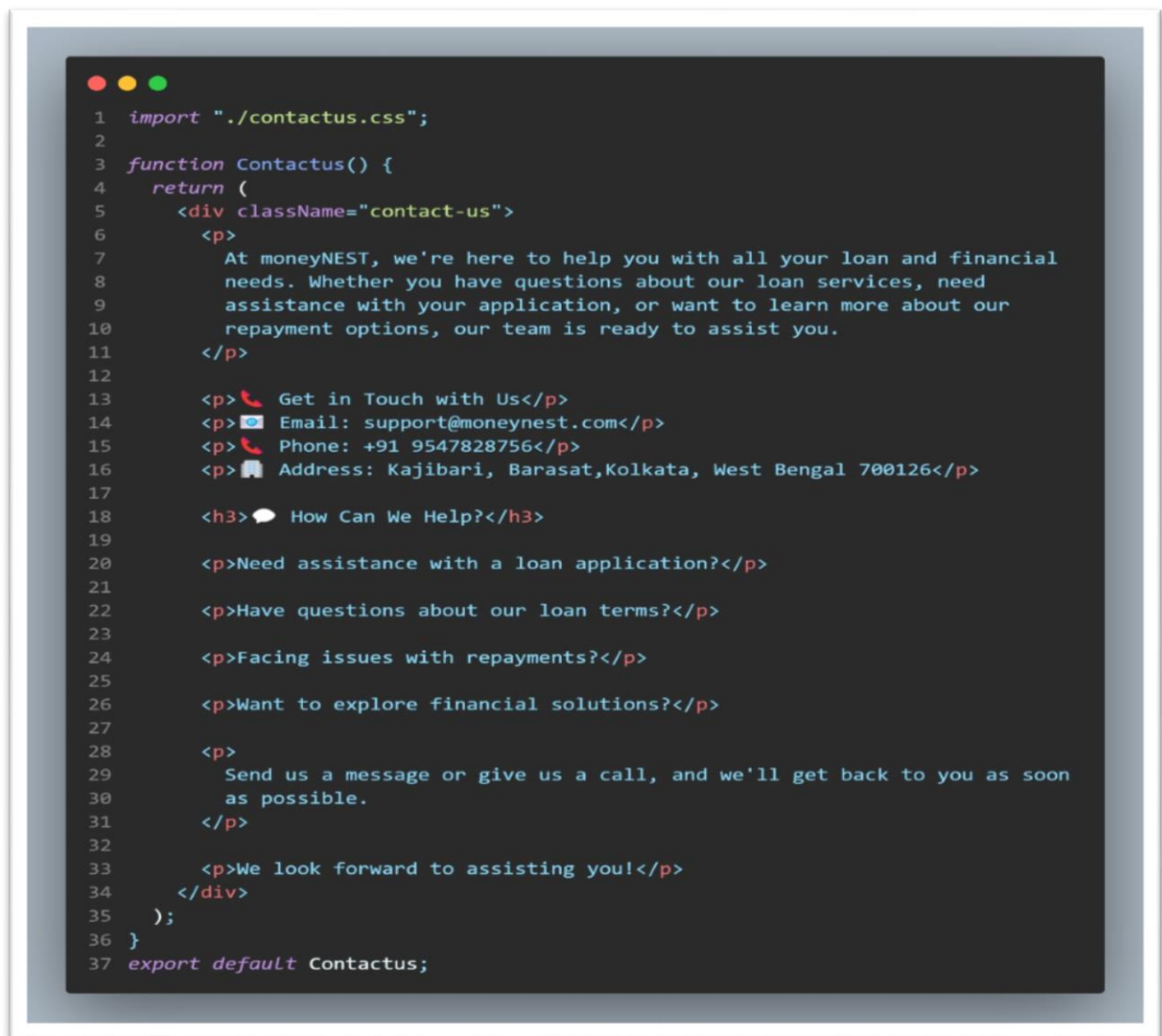
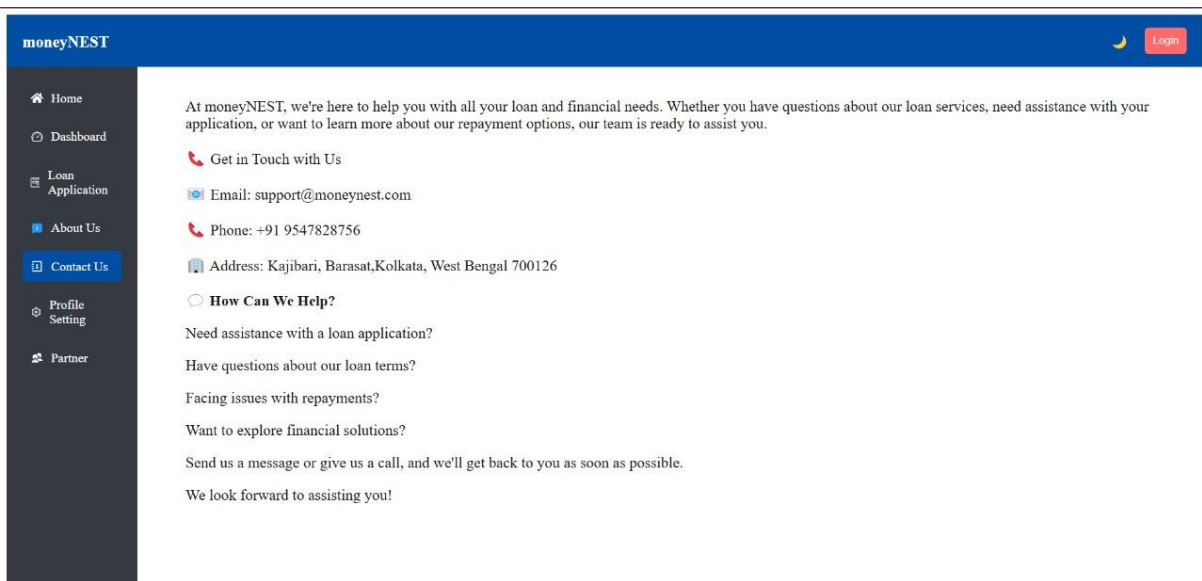
```

1  import "../aboutus.css";
2
3  function Aboutus(){
4
5      return(
6          <div className="about-us">
7              <p>
8                  Welcome to moneyNEST, your trusted partner in financial growth. We
9                  understand that access to quick and reliable loans is essential
10                 for achieving your dreams, whether it's expanding your business,
11                 managing unexpected expenses, or funding personal goals.
12             </p>
13             <p>
14                 At moneyNEST, we provide secure, hassle-free, and flexible loan
15                 solutions tailored to your needs. With a seamless online
16                 application process and competitive interest rates, we ensure that
17                 financial support is just a few clicks away.
18             </p>
19             <h3>Why Choose moneyNEST?</h3>
20             <p>
21                 ✓ Fast & Easy Loan Approvals: Get funds quickly with minimal
22                 paperwork.
23             </p>
24             <p> ✓ Transparent Process: No hidden fees, no surprises.</p>
25             <p>
26                 ✓ Flexible Repayment Options: Designed to suit your financial
27                 situation.
28             </p>
29             <p>
30                 ✓ Secure & Trustworthy: Your financial data is protected with
31                 industry-leading security.
32             </p>
33             <p>
34                 Join thousands of satisfied customers who trust moneyNEST to power
35                 their financial future. Let's build your financial nest together!
36             </p>
37         </div>
38     )
39 }
40 export default Aboutus;

```

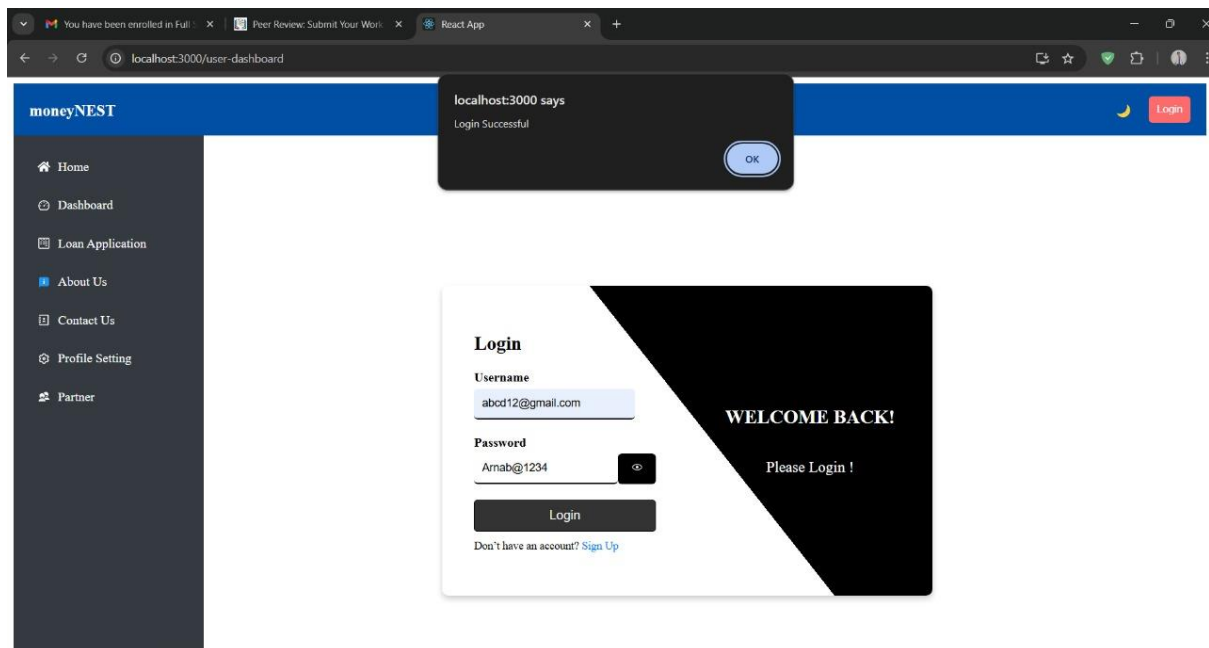
C)

Solution:



d)

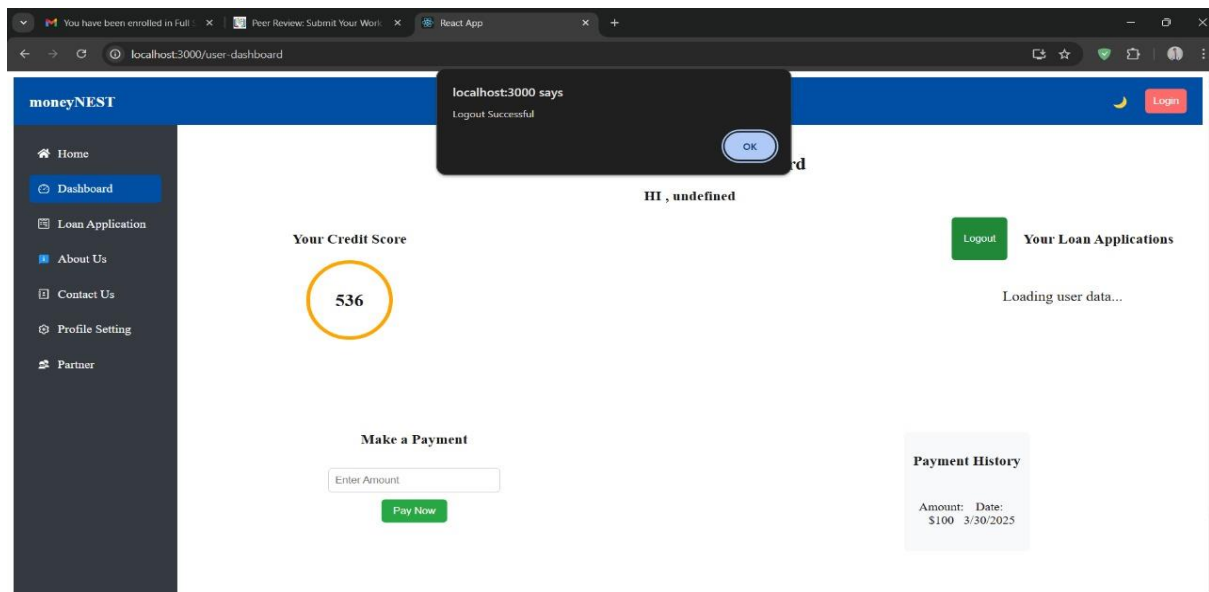
Solution:



```
1 import { useState } from "react";
2 import { useNavigate, Link } from "react-router-dom";
3 import { RiEyeCloseLine } from "react-icons/r1";
4 import { RiEyeOpen } from "react-icons/rx";
5 import axios from "axios";
6 import styles from "./Login.module.css";
7
8 const login = () => {
9   const navigate = useNavigate();
10   const [password, setPassword] = useState("");
11   const [email, setEmail] = useState("");
12   const [showPassword, setShowPassword] = useState(false);
13
14
15   const handleSubmit = async (e) => {
16     e.preventDefault();
17     try {
18       const res = await axios.post("http://localhost:5000/api/auth/login", { email, password });
19       localStorage.setItem("token", res.data.token);
20       res.data.role === "admin" ? navigate("/admin-dashboard") : navigate("/user-dashboard");
21     } catch (err) {
22       alert("Login Failed");
23     }
24   };
25
26   const togglePasswordVisibility = () => {
27     setShowPassword(!showPassword);
28   };
29
30   return (
31     <div className={styles.logincontainer}>
32       <div className={styles.loginbox}>
33         <div className={styles.loginleft}>
34           <h2>Login</h2>
35
36           <div className={styles.Sinputgroup}>
37             <label htmlFor="username">Username</label>
38             <input type="email" id="username" placeholder="Enter your Email" value={email} onChange={(e) => setEmail(e.target.value)} required />
39           </div>
40           <div className={styles.Sinputgroup}>
41             <label htmlFor="password">Password</label>
42             <div className={styles.passin}>
43               <input type={showPassword ? "text" : "password"} id="password" placeholder="Password" value={password} onChange={(e) => setPassword(e.target.value)} required />
44               <button id={styles.showpass} onClick={togglePasswordVisibility}>{showPassword ? <RiEyeOpen /> : <RiEyeCloseLine />}</button></div>
45             </div>
46             <button className={styles.loginbtn} onClick={handleSubmit}>Login</button>
47
48             <p>
49               Don't have an account? <Link to={"/register"}>Sign Up</Link>
50             </p>
51           </div>
52         <div className={styles.loginright}>
53           <h2>WELCOME BACK!</h2>
54           <p>Please Login !</p>
55         </div>
56       </div>
57     </div>
58   );
59 }
60
61 export default login;
```

e)

Solution:



```
const handleLogout = () => {  
  localStorage.removeItem("token");  
  localStorage.removeItem("role");  
  localStorage.removeItem("userName");  
  // localStorage.removeItem("profilePic");  
  setIsLoggedIn(false);  
  setUsername("");  
  // setProfilePic("");  
  // navigate("/");  
  alert("Logout Successful");  
};
```


f)

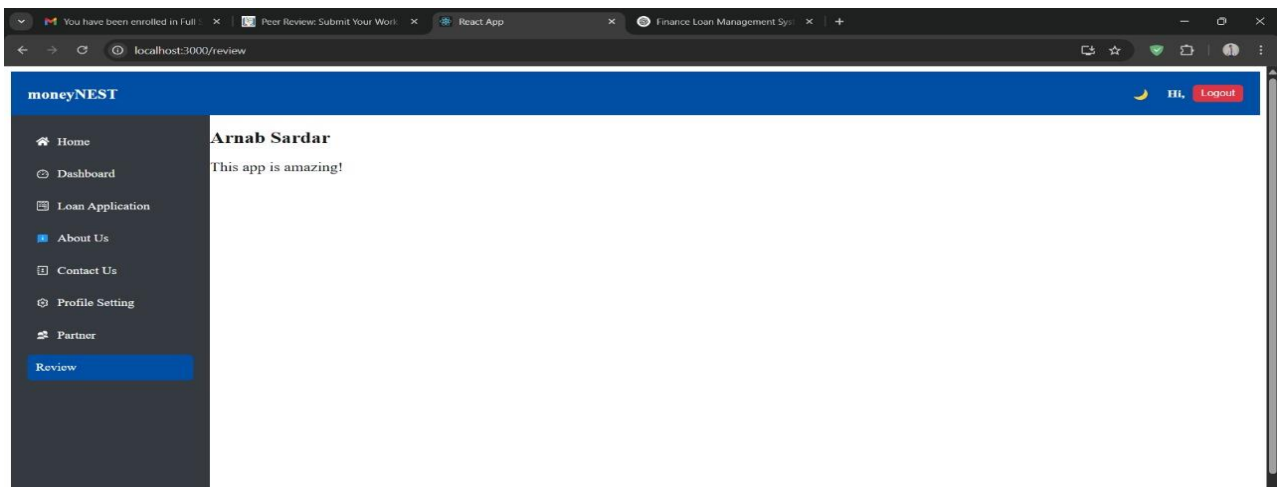
Solution:



```
1 import { useState } from "react";
2 import { useNavigate, Link } from "react-router-dom";
3 import { RiEyeCloseLine } from "react-icons/ri";
4 import { RiEyeOpen } from "react-icons/rx";
5 import axios from "axios";
6 import styles from "../Register.module.css";
7
8
9 const Register = () => {
10   const navigate = useNavigate();
11   const [user, setUser] = useState({ name: "", email: "", password: "", phone: "" });
12   const [passwordStrength, setPasswordStrength] = useState('');
13   const [showPassword, setShowPassword] = useState(false);
14
15   const handleSignup = async (e) => {
16     e.preventDefault();
17     await axios.post("http://localhost:5000/api/auth/register", user);
18     navigate("/login");
19   };
20
21   const checkPasswordStrength = (password) => {
22     const minLength = 8;
23     const hasUpperCase = /[A-Z]/.test(password);
24     const hasLowerCase = /[a-z]/.test(password);
25     const hasNumbers = /\d/.test(password);
26     const hasSpecialChars = /[!@#$%^&*()_+]/.test(password);
27
28     if (password.length < minLength) {
29       setPasswordStrength("Password must be at least 8 characters long.");
30     } else if (!hasUpperCase) {
31       setPasswordStrength("Password must contain at least one uppercase letter.");
32     } else if (!hasLowerCase) {
33       setPasswordStrength("Password must contain at least one lowercase letter.");
34     } else if (!hasNumbers) {
35       setPasswordStrength("Password must contain at least one number.");
36     } else if (!hasSpecialChars) {
37       setPasswordStrength("Password must contain at least one special character.");
38     } else {
39       setPasswordStrength("Password is strong.");
40     }
41   };
42
43   const togglePasswordVisibility = () => {
44     setShowPassword(!showPassword);
45   };
46
47   return (
48     <div className={styles.signupcontainer}>
49       <div className={styles.signupbox}>
50         <div className={styles.signupleft}>
51           <h2>WELCOME BACK!</h2>
52           <p>Please Sign Up !</p>
53         </div>
54         <div className={styles.signupright}>
55           <h2>Sign Up</h2>
56           <div className={styles.inputgroup}>
57             <label htmlFor="username">Username</label>
58             <input type="text" id="username" placeholder="Enter your username" value={user.name} onChange={(e) => setUser({ ...user, name: e.target.value })}/>
59           </div>
60           <div className={styles.inputgroup}>
61             <label htmlFor="phone no">Phone No.</label>
62             <input type="number" id="phone no" placeholder="Enter your number" value={user.phone} onChange={(e) => setUser({ ...user, phone: e.target.value })}/>
63           </div>
64           <div className={styles.inputgroup}>
65             <label htmlFor="email">Email</label>
66             <input type="email" id="email" placeholder="Enter your email" value={user.email} onChange={(e) => setUser({ ...user, email: e.target.value })}/>
67           </div>
68           <div className={styles.inputgroup}>
69             <label htmlFor="password">Password</label>
70             <div className={styles.passin}>
71               <input type={showPassword ? "text" : "password"} id="password" placeholder="Enter your password" value={user.password} onChange={(e) => {
72                 checkPasswordStrength(e.target.value);
73                 setUser({ ...user, password: e.target.value });
74               }}/>
75               <button id={styles.showpass} onClick={togglePasswordVisibility}>{showPassword ? <RiEyeOpen /> : <RiEyeCloseLine />}</button>
76             </div>
77             {passwordStrength && <p className="error">{passwordStrength}</p>}
78           </div>
79           <button className={styles.signupbtn} onClick={handleSignup}>Sign Up</button>
80         </div>
81       </div>
82       <p id={styles.footer}>Already have an account? <Link to="/login">Login</Link></p>
83     </div>
84   );
85 }
```

Task 3: a),b),c),d)

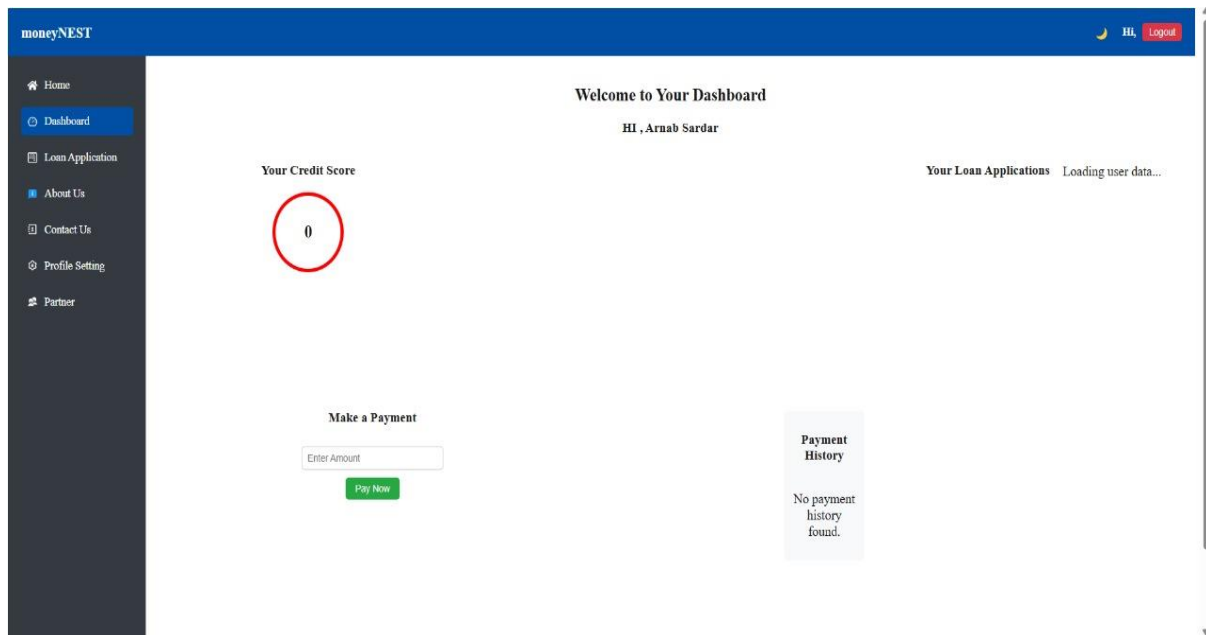
Solution:



```
1 import { useState } from "react";
2 import { useNavigate, Link } from "react-router-dom";
3 import { RiEyeCloseLine } from "react-icons/ri";
4 import { RiEyeOpen } from "react-icons/ri";
5 import axios from "axios";
6 import styles from "../Register.module.css";
7
8
9 const Register = () => {
10   const navigate = useNavigate();
11   const [user, setUser] = useState({ name: "", email: "", password: "", phone: "" });
12   const [passwordStrength, setPasswordStrength] = useState('');
13   const [showPassword, setShowPassword] = useState(false);
14
15   const handleSignup = async (e) => {
16     e.preventDefault();
17     await axios.post("http://localhost:5000/api/auth/register", user);
18     navigate("/login");
19   };
20
21   const checkPasswordStrength = (password) => {
22     const minLength = 8;
23     const hasUpperCase = /[A-Z]/.test(password);
24     const hasLowerCase = /[a-z]/.test(password);
25     const hasNumbers = /\d/.test(password);
26     const hasSpecialChars = /[!@#$%^&*()_+]/.test(password);
27
28     if (password.length < minLength) {
29       setPasswordStrength("Password must be at least 8 characters long.");
30     } else if (!hasUpperCase) {
31       setPasswordStrength("Password must contain at least one uppercase letter.");
32     } else if (!hasLowerCase) {
33       setPasswordStrength("Password must contain at least one lowercase letter.");
34     } else if (!hasNumbers) {
35       setPasswordStrength("Password must contain at least one number.");
36     } else if (!hasSpecialChars) {
37       setPasswordStrength("Password must contain at least one special character.");
38     } else {
39       setPasswordStrength("Password is strong.");
40     }
41   };
42
43   const togglePasswordVisibility = () => {
44     setShowPassword(!showPassword);
45   };
46
47   return (
48     <div className={styles.signupcontainer}>
49       <div className={styles.signupbox}>
50         <div className={styles.signupleft}>
51           <h2>WELCOME BACK!</h2>
52           <p>
53             Please Sign Up !
54           </p>
55         </div>
56         <div className={styles.signupright}>
57           <h2>Sign Up</h2>
58           <div>
59             <div className={styles.inputgroup}>
60               <label htmlFor="username">Username</label>
61               <input type="text" id="username" placeholder="Enter your username" value={user.name} onChange={(e) => setUser({ ...user, name: e.target.value })}/>
62             </div>
63             <div className={styles.inputgroup}>
64               <label htmlFor="phone no">Phone No.</label>
65               <input type="number" id="phone no" placeholder="Enter your number" value={user.phone} onChange={(e) => setUser({ ...user, phone: e.target.value })}/>
66             </div>
67             <div className={styles.inputgroup}>
68               <label htmlFor="email">Email</label>
69               <input type="email" id="email" placeholder="Enter your email" value={user.email} onChange={(e) => setUser({ ...user, email: e.target.value })}/>
70             </div>
71             <div>
72               <div className={styles.inputgroup}>
73                 <label htmlFor="password">Password</label>
74                 <div className={styles.passin}>
75                   <input type={showPassword ? "text" : "password"} id="password" placeholder="Enter your password" value={user.password} onChange={(e) => {
76                     checkPasswordStrength(e.target.value);
77                     setUser({ ...user, password: e.target.value });
78                   }}/>
79                 </div>
80                 <button id={styles.showpass} onClick={togglePasswordVisibility}> {showPassword ? <RiEyeOpen /> : <RiEyeCloseLine /> } </button>
81               </div>
82               {passwordStrength && <p className="error">{passwordStrength}</p>}
83             </div>
84             <button className={styles.signupbtn} onClick={handleSignup}>Sign Up</button>
85           </div>
86         </div>
87         <p>Already have an account? <Link to="/login">Login</Link></p>
88       </div>
89     </div>
90   );
91 }
```

Task 4: a),b)

Solution:



```
const handleLogout = () => {  
  localStorage.removeItem("token");  
  localStorage.removeItem("role");  
  localStorage.removeItem("userName");  
  // localStorage.removeItem("profilePic");  
  setIsLoggedIn(false);  
  setUsername("");  
  // setProfilePic("");  
  // navigate("/");  
  alert("Logout Successful");  
};
```


Task 4: c)

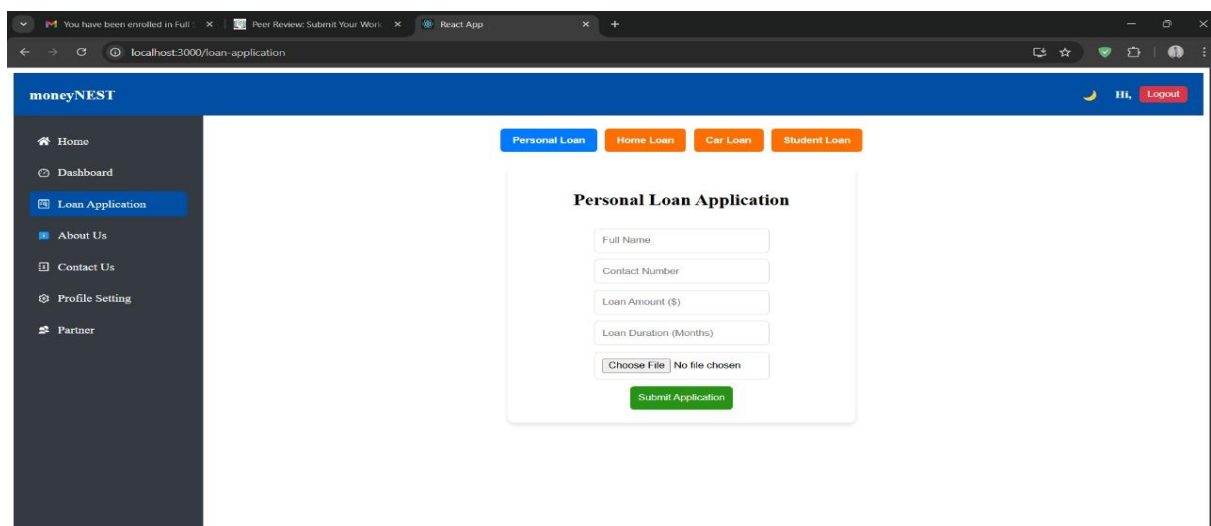
Solution:



```
frontend > src > components > pages > JS home.js > Home
1  import React from "react";
2  import styles from "../Home.module.css"; // Import CSS for styling
3
4
5  const Home = () => {
6    return (
7      <div className={styles.banner}>
8        /*  */
9        <div className={styles.bannerText}>
10         <h1>MoneyNest</h1>
11         <p>Personal Loan: <strong>10% p.a.</strong></p>
12         <p>Student Loan: <strong>7% p.a.</strong></p>
13         <p>Gold Loan: <strong>8% p.a.</strong></p>
14         <p>Home Loan: <strong>8% p.a.</strong></p>
15         <p>Car Loan: <strong>9% p.a.</strong></p>
16       </div>
17     </div>
18   );
19 };
20
21 export default Home;
22
```

Task 4: d)

Solution:



```

1 import { useState } from "react";
2 import axios from "axios";
3 import styles from "../LoanApplication.module.css";
4
5 const LoanApplication = () => {
6   const [loanType, setLoanType] = useState("Personal Loan");
7   const [formData, setFormData] = useState({
8     name: "",
9     contactNumber: "",
10    loanAmount: "",
11    loanDuration: "",
12    idProof: null,
13  });
14
15  const handleChange = (e) => {
16    const { name, value } = e.target;
17    setFormData({ ...formData, [name]: value });
18  };
19
20  const handleFileChange = (e) => {
21    setFormData({ ...formData, idProof: e.target.files[0] });
22  };
23
24  const handleSubmit = async (e) => {
25    e.preventDefault();
26    const formDataToSend = new FormData();
27    formDataToSend.append("loanType", loanType);
28    formDataToSend.append("name", formData.name);
29    formDataToSend.append("contactNumber", formData.contactNumber);
30    formDataToSend.append("loanAmount", formData.loanAmount);
31    formDataToSend.append("loanDuration", formData.loanDuration);
32    formDataToSend.append("idProof", formData.idProof);
33
34    try {
35      await axios.post("http://localhost:5000/api/loans", formDataToSend, {
36        headers: { "Content-Type": "multipart/form-data" },
37      });
38      alert("Loan Application Submitted Successfully!");
39    } catch (error) {
40      console.error("Error submitting loan application", error);
41    }
42  };
43
44  return (
45    <div className={styles.container}>
46      <div className={styles.loanTypeSelector}>
47        {["Personal Loan", "Home Loan", "Car Loan", "Student Loan"].map((type) => (
48          <button
49            key={type}
50            className={loanType === type ? styles.activeLoanType : ""}
51            onClick={() => setLoanType(type)}
52          >
53            {type}
54          </button>
55        ))}
56      </div>
57      <form className={styles.form} onSubmit={handleSubmit}>
58        <div>
59          <input type="text" name="name" placeholder="Full Name" required onChange={handleChange} />
60          <input type="text" name="contactNumber" placeholder="Contact Number" required onChange={handleChange} />
61          <input type="text" name="loanAmount" placeholder="Loan Amount ($)" required onChange={handleChange} />
62          <input type="text" name="loanDuration" placeholder="Loan Duration (Months)" required onChange={handleChange} />
63          <input type="file" accept="application/pdf" onChange={handleFileChange} required />
64          <button type="submit">Submit Application</button>
65        </div>
66      </form>
67    </div>
68  );
69 };
70
71 export default LoanApplication;
72

```

Task 7:a)

Solution:

Code

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

loan-app

Public

forked from [Suvajit1103/loan-app](#)

Pin

Watch 0

Fork 0

Star 0

main

1 Branch

0 Tags

Go to file

Add file

Code

This branch is up to date with [Suvajit1103/loan-app:main](#).

Contribute

Sync fork

[Suvajit Ghosh]

add frontend

b071f73 · 20 hours ago

3 Commits

backend

add backend

20 hours ago

frontend

add frontend

20 hours ago

README.md

first commit

20 hours ago

README

loan-app

About

No description, website, or topics provided.

Readme

Activity

0 stars

0 watching

0 forks

Releases

No releases published

[Create a new release](#)

Packages

No packages published

[Publish your first package](#)

Languages