

# IMPLEMENTED CODE

## 1.LOGIN

```
import { useState } from 'react';
import { useNavigate } from 'react-router-dom';
import styled from 'styled-components';

const Login = ({ setIsAuthenticated }) => {
  const [email, setEmail] = useState("");
  const [password, setPassword] = useState("");
  const [error, setError] = useState("");
  const navigate = useNavigate();

  // Handle form submission for login
  const handleSubmit = async (e) => {
    e.preventDefault();
    setError(""); // Reset error message

    // Ensure that email and password are not empty
    if (!email || !password) {
      setError('Email and password are required!');
      return;
    }

    try {
      const response = await fetch('http://localhost:5000/api/auth/login', {
        method: 'POST',
        headers: {
          'Content-Type': 'application/json',
        },
```

```

    body: JSON.stringify({ email, password }),
  });

  const result = await response.json();

  if (response.status === 200) {
    // Store the JWT token in localStorage
    localStorage.setItem('authToken', result.token);
    localStorage.setItem('token', result.token);

    // Update parent state (App.js)
    setIsAuthenticated(true);

    alert('Login successful!');
    navigate('/dashboard'); // Redirect to dashboard on success
  } else {
    setError(result.message || 'Invalid email or password');
  }
} catch (err) {
  console.error('Error during login:', err);
  setError('Failed to login. Please try again.');
```

```

}

};

return (
  <Container>
    <Card>
      <Title>Login</Title>
      {error && <ErrorMessage>{error}</ErrorMessage>} { /* Display error message */ }
      <Form onSubmit={handleSubmit}>
        <InputContainer>
```

```
<Label htmlFor="email">Email</Label>

<Input
  type="email"
  id="email"
  placeholder="Email"
  value={email}
  onChange={(e) => setEmail(e.target.value)}
  required
/>
</InputContainer>
<InputContainer>
  <Label htmlFor="password">Password</Label>
  <Input
    type="password"
    id="password"
    placeholder="Password"
    value={password}
    onChange={(e) => setPassword(e.target.value)}
    required
  />
</InputContainer>
<Button type="submit">Login</Button>
</Form>
<TextCenter>
  Don't have an account? <StyledLink href="/">Register here</StyledLink>
</TextCenter>
</Card>
</Container>

);
};
```

```
// Styled components (same as before)
```

```
const Container = styled.div`
```

```
  display: flex;
```

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

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

```
  height: 100vh;
```

```
  background-color: #f4f7fa;
```

```
`;
```

```
const Card = styled.div`
```

```
  background-color: #fff;
```

```
  padding: 20px;
```

```
  border-radius: 8px;
```

```
  box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
```

```
  width: 100%;
```

```
  max-width: 400px;
```

```
`;
```

```
const Title = styled.h2`
```

```
  text-align: center;
```

```
  color: #007bff;
```

```
  font-weight: bold;
```

```
`;
```

```
const ErrorMessage = styled.div`
```

```
  color: #ff4d4d;
```

```
  font-size: 14px;
```

```
  margin-bottom: 15px;
```

```
  text-align: center;
```

```
`;
```

```
const Form = styled.form`  
  display: flex;  
  flex-direction: column;  
`;  
;
```

```
const InputContainer = styled.div`  
  margin-bottom: 15px;  
`;  
;
```

```
const Label = styled.label`  
  display: block;  
  margin-bottom: 5px;  
  color: #333;  
`;  
;
```

```
const Input = styled.input`  
  width: 100%;  
  padding: 10px;  
  border-radius: 4px;  
  border: 1px solid #ddd;  
  font-size: 14px;  
  color: #333;  
  margin-top: 5px;
```

```
  &:focus {  
    border-color: #007bff;  
  }  
`;  
;
```

```
const Button = styled.button`  
  width: 100%;
```

```
padding: 10px;
background-color: #007bff;
color: #fff;
border: none;
border-radius: 4px;
font-size: 16px;
cursor: pointer;
```

```
&:hover {
  background-color: darkblue;
}
`;
```

```
const TextCenter = styled.p`
  text-align: center;
  margin-top: 15px;
`;
```

```
const StyledLink = styled.a`
  color: #007bff;
  text-decoration: none;
```

```
&:hover {
  color: #ff4d4d;
}
`;
```

```
export default Login;
```

## 2.REGISTER

```
import { useState } from 'react';
import { useNavigate } from 'react-router-dom';
import styled from 'styled-components'; // Import styled-components

const Register = () => {
  const [username, setUsername] = useState("");
  const [email, setEmail] = useState("");
  const [password, setPassword] = useState("");
  const [error, setError] = useState("");
  const [isSubmitting, setIsSubmitting] = useState(false);
  const navigate = useNavigate();

  const handleSubmit = async (e) => {
    e.preventDefault();
    setError("");
    setIsSubmitting(true);

    // Basic password validation
    const passwordRegex = /^(?=.*\d)(?=.*[a-z])(?=.*[A-Z]).{6,20}$/;
    if (!passwordRegex.test(password)) {
      setError('Password must be between 6-20 characters and contain at least one number, one lowercase, and one uppercase letter.');
```

lowercase, and one uppercase letter.');

```
      setIsSubmitting(false);
      return;
    }

    try {
      const response = await fetch('http://localhost:5000/api/auth/register', {
        method: 'POST',
        headers: {
```

```

        'Content-Type': 'application/json',
    },
    body: JSON.stringify({ username, email, password }),
});

const result = await response.json();

if (response.status === 201) {
    alert('User registered successfully');
    navigate('/login');
} else {
    setError(result.message || 'Error during registration');
}
} catch (err) {
    console.error('Error during registration:', err);
    setError('Failed to register. Please try again.');
```

```

} finally {
    setIsSubmitting(false);
}
};

return (
    <Container>
    <Card>
    <Title>Register</Title>
    {error && <ErrorMessage>{error}</ErrorMessage>}
    <Form onSubmit={handleSubmit}>
    <InputContainer>
    <Label htmlFor="username">Username</Label>
    <Input
    type="text"
```



```
      id="username"
      placeholder="Username"
      value={username}
      onChange={(e) => setUsername(e.target.value)}
      required
      aria-label="Username"
    />
  </InputContainer>
  <InputContainer>
    <Label htmlFor="email">Email</Label>
    <Input
      type="email"
      id="email"
      placeholder="Email"
      value={email}
      onChange={(e) => setEmail(e.target.value)}
      required
      aria-label="Email"
    />
  </InputContainer>
  <InputContainer>
    <Label htmlFor="password">Password</Label>
    <Input
      type="password"
      id="password"
      placeholder="Password"
      value={password}
      onChange={(e) => setPassword(e.target.value)}
      required
      aria-label="Password"
    />
  </InputContainer>
```

```

    </InputContainer>

    <Button type="submit" disabled={isSubmitting}>
      {isSubmitting ? 'Registering...' : 'Register'}
    </Button>

  </Form>

  <TextCenter>
    Already have an account? <StyledLink href="/login">Login here</StyledLink>
  </TextCenter>

</Card>

</Container>

);
};

```

```
// Styled components
```

```

const Container = styled.div`
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
  background-color: #f4f7fa;
`;

```

```

const Card = styled.div`
  background-color: #fff;
  padding: 20px;
  border-radius: 8px;
  box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
  width: 100%;
  max-width: 400px;
`;

```

```
const Title = styled.h2`  
  text-align: center;  
  color: #007bff;  
  font-weight: bold;  
`;  
;
```

```
const ErrorMessage = styled.div`  
  color: #ff4d4d;  
  font-size: 14px;  
  margin-bottom: 15px;  
  text-align: center;  
`;  
;
```

```
const Form = styled.form`  
  display: flex;  
  flex-direction: column;  
`;  
;
```

```
const InputContainer = styled.div`  
  margin-bottom: 15px;  
`;  
;
```

```
const Label = styled.label`  
  display: block;  
  margin-bottom: 5px;  
  color: #333;  
`;  
;
```

```
const Input = styled.input`  
  width: 100%;
```

```
padding: 10px;
border-radius: 4px;
border: 1px solid #ddd;
font-size: 14px;
color: #333;
margin-top: 5px;
```

```
&:focus {
  border-color: #007bff;
}
```

```
&:hover {
  border-color: #007bff;
}
```

```
`;
```

```
const Button = styled.button`
  width: 100%;
  padding: 10px;
  background-color: #007bff;
  color: #fff;
  border: none;
  border-radius: 4px;
  font-size: 16px;
  cursor: pointer;
```

```
&:hover {
  background-color: darkblue;
}
```

```
&:disabled {
```

```
    background-color: #cccccc;
    cursor: not-allowed;
  }
`;
```

```
const TextCenter = styled.p`
  text-align: center;
  margin-top: 15px;
`;
```

```
const StyledLink = styled.a`
  color: #007bff;
  text-decoration: none;
```

```
  &:hover {
    color: #ff4d4d;
  }
`;
```

```
export default Register;
```

### 3.DASHBOARD

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

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

import { Helmet } from 'react-helmet';

import styled from 'styled-components';

import { jwtDecode } from 'jwt-decode'; // Import jwt-decode for token expiration check


const Dashboard = () => {

  const [tasks, setTasks] = useState([]);

  const [loading, setLoading] = useState(false);

  const [loadingTasks, setLoadingTasks] = useState(true);

  const [userName, setUserName] = useState(""); // State for storing the username part of email

  const navigate = useNavigate();


  // Load tasks from the backend

  const loadTasks = async () => {

    setLoadingTasks(true);


    // Retrieve token from localStorage

    const token = localStorage.getItem('authToken');

    console.log('Token retrieved:', token); // Debugging line


    if (!token) {

      // No token found, redirect to login

      console.log('No token found, redirecting to login'); // Debugging line

      navigate('/login');

      return;

    }


    try {

      // Decode token and check if it's expired
```

```
const decoded = jwtDecode(token);

const currentTime = Date.now() / 1000; // Get current time in seconds

if (decoded.exp < currentTime) {
  localStorage.removeItem('authToken');
  console.log('Token expired, redirecting to login');
  navigate('/login'); // Redirect to login if token is expired
  return;
}

// Extract email and split before @ to get the username part
const email = decoded.email; // Assuming the email is stored in 'email' field in the token
if (email) {
  const username = email.split('@')[0]; // Extract the part before '@'
  setUsername(username); // Store the username in state
}

// If token is valid, proceed to fetch tasks
const response = await fetch('http://localhost:5000/api/tasks', {
  method: 'GET',
  headers: {
    'Content-Type': 'application/json',
    'Authorization': `Bearer ${token}`,
  },
});

if (!response.ok) {
  // If the response is not ok (e.g., 404, 500), throw an error
  throw new Error(Error: ${response.status});
}
```

```

const result = await response.json(); // Parse JSON response

setLoadingTasks(false);

setTasks(result);
} catch (error) {
  setLoadingTasks(false);

  if (error.message === 'Error: 401') {
    localStorage.removeItem('authToken');

    navigate('/login'); // Redirect to login if token is invalid
  } else {
    alert(Error loading tasks: ${error.message}); // Show the error message
  }
}
};

```

// Mark a task as completed

```

const markAsCompleted = async (taskId) => {
  const token = localStorage.getItem('authToken');

  if (!token) {
    navigate('/login'); // Redirect to login if no token

    return;
  }

```

```

setLoading(true);

```

```

const response = await fetch(http://localhost:5000/api/tasks/complete/${taskId}, {
  method: 'PUT',
  headers: {
    'Content-Type': 'application/json',
    'Authorization': Bearer ${token},
  },
});

```



```
const result = await response.json();

setLoading(false);

if (response.status === 200) {
  setTasks(tasks.map((task) =>
    task._id === taskId ? { ...task, completed: true } : task
  ));
} else {
  alert(result.message || 'Error marking task as completed');
}
};

// Delete a task from the backend with a confirmation prompt
const deleteTask = async (taskId) => {
  const token = localStorage.getItem('authToken');
  if (!token) {
    navigate('/login'); // Redirect to login if no token
    return;
  }

  const confirmDelete = window.confirm('Are you sure you want to delete this task?');
  if (!confirmDelete) return;

  setLoading(true);

  const response = await fetch(http://localhost:5000/api/tasks/${taskId}, {
    method: 'DELETE',
    headers: {
      'Content-Type': 'application/json',
      'Authorization': Bearer ${token},
```

```

    },
  });

  const result = await response.json();
  setLoading(false);

  if (response.status === 200) {
    setTasks(tasks.filter((task) => task._id !== taskId));
  } else {
    alert(result.message || 'Error deleting task');
  }
};

// Edit a task (navigate to the edit page)
const editTask = (taskId) => {
  navigate(`/edit-task/${taskId}`);
};

// Fetch tasks when the component is mounted
useEffect(() => {
  loadTasks();
}, []);

// Logout function
const handleLogout = () => {
  localStorage.removeItem('authToken'); // Clear the token from localStorage
  navigate('/login'); // Redirect to login page
};

return (
  <div>

```

```

<Helmet>

<style>

{
  body {
    background-color: #f5f5f5; /* Override background for Dashboard */
    color: #333;
  }
}

</style>
</Helmet>

<Header>

  <h1>Welcome, {userName ? userName : 'User'}!</h1> { /* Display the username part of the
email */}

  <LogoutButton onClick={handleLogout}>Logout</LogoutButton>

</Header>

<Container>

  <h3>Your Tasks</h3>

  <AddTaskButton to="/add-task">Add New Task</AddTaskButton>

  { /* Email Logs Button */}

  <EmailLogsButton to="/email-logs">View Email Logs</EmailLogsButton>

  {loadingTasks ? (
    <LoadingMessage>Loading tasks...</LoadingMessage>
  ) : (
    <TaskTable>

      <thead>

        <tr>

          <th>Task</th>

```

```

    <th>Due Date</th>

    <th>Reminder</th>

    <th>Action</th>

  </tr>

</thead>

<tbody>

  {tasks.length > 0 ? (
    tasks.map((task) => (
      <tr key={task._id}>

        <td>{task.title}</td>

        <td>{new Date(task.due_date).toLocaleString()}</td>

        <td>{task.reminder ? new Date(task.reminder).toLocaleString() : 'No reminder'}</td>

        <td>

          {task.completed ? (
            <CompletedLabel>Completed</CompletedLabel>

          ) : (
            <CompletedButton onClick={() => markAsCompleted(task._id)}>
              Mark as Completed
            </CompletedButton>

          )}

          <DeleteButton onClick={() => deleteTask(task._id)}>Delete Task</DeleteButton>

          <EditButton onClick={() => editTask(task._id)}>Edit Task</EditButton>

        </td>

      </tr>

    ))

  ) : (
    <tr>

      <td colspan="4">No tasks available</td>

    </tr>

  )}

</tbody>

```

```
        </TaskTable>

    })

    </Container>

</div>

);

};
```

```
const Header = styled.header`

    background-color: #007BFF;

    color: white;

    padding: 20px;

    text-align: center;

`;
```

```
const LogoutButton = styled.button`

    background-color: #FF5733;

    color: white;

    padding: 10px 20px;

    border: none;

    cursor: pointer;

    border-radius: 4px;

    margin-left: 20px;

`;
```

```
const Container = styled.div`

    max-width: 900px;

    margin: 20px auto;

    padding: 20px;

    background: white;

    border-radius: 8px;

    box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
```

```
`;  
`;
```

```
const AddTaskButton = styled(Link)`  
  background-color: #4CAF50;  
  color: white;  
  padding: 10px 20px;  
  border: none;  
  cursor: pointer;  
  border-radius: 4px;  
  display: inline-block;  
  margin-bottom: 20px;  
  text-decoration: none;  
`;  
`;
```

```
const EmailLogsButton = styled(Link)`  
  background-color: #007BFF;  
  color: white;  
  padding: 10px 20px;  
  border: none;  
  cursor: pointer;  
  border-radius: 4px;  
  display: inline-block;  
  margin-bottom: 20px;  
  text-decoration: none;  
`;  
`;
```

```
const LoadingMessage = styled.div`  
  text-align: center;  
  padding: 20px;  
  font-size: 16px;  
`;  
`;
```

```
const TaskTable = styled.table`  
  width: 100%;  
  border-collapse: collapse;  
  margin-top: 20px;  
`;  
;
```

```
const CompletedLabel = styled.span`  
  color: green;  
  font-weight: bold;  
`;  
;
```

```
const CompletedButton = styled.button`  
  background-color: #4CAF50;  
  color: white;  
  padding: 5px 10px;  
  border: none;  
  cursor: pointer;  
  border-radius: 4px;  
`;  
;
```

```
const DeleteButton = styled.button`  
  background-color: #FF5733;  
  color: white;  
  padding: 5px 10px;  
  border: none;  
  cursor: pointer;  
  border-radius: 4px;  
  margin-left: 10px;  
`;  
;
```

```
const EditButton = styled.button`  
  background-color: #007BFF;  
  color: white;  
  padding: 5px 10px;  
  border: none;  
  cursor: pointer;  
  border-radius: 4px;  
  margin-left: 10px;  
`;
```

```
export default Dashboard;
```



#### 4.ADD TASK

```
import { useEffect, useState } from 'react';
import { Link, useNavigate } from 'react-router-dom';
import { Helmet } from 'react-helmet';
import styled from 'styled-components';
import { jwtDecode } from 'jwt-decode'; // Import jwt-decode for token expiration check

const Dashboard = () => {
  const [tasks, setTasks] = useState([]);
  const [loading, setLoading] = useState(false);
  const [loadingTasks, setLoadingTasks] = useState(true);
  const [userName, setUserName] = useState(""); // State for storing the username part of email
  const navigate = useNavigate();

  // Load tasks from the backend
  const loadTasks = async () => {
    setLoadingTasks(true);

    // Retrieve token from localStorage
    const token = localStorage.getItem('authToken');
    console.log('Token retrieved:', token); // Debugging line

    if (!token) {
      // No token found, redirect to login
      console.log('No token found, redirecting to login'); // Debugging line
      navigate('/login');
      return;
    }

    try {
      // Decode token and check if it's expired
```

```
const decoded = jwtDecode(token);

const currentTime = Date.now() / 1000; // Get current time in seconds

if (decoded.exp < currentTime) {
  localStorage.removeItem('authToken');
  console.log('Token expired, redirecting to login');
  navigate('/login'); // Redirect to login if token is expired
  return;
}

// Extract email and split before @ to get the username part
const email = decoded.email; // Assuming the email is stored in 'email' field in the token
if (email) {
  const username = email.split('@')[0]; // Extract the part before '@'
  setUsername(username); // Store the username in state
}

// If token is valid, proceed to fetch tasks
const response = await fetch('http://localhost:5000/api/tasks', {
  method: 'GET',
  headers: {
    'Content-Type': 'application/json',
    'Authorization': `Bearer ${token}`,
  },
});

if (!response.ok) {
  // If the response is not ok (e.g., 404, 500), throw an error
  throw new Error(Error: ${response.status});
}
```

```

const result = await response.json(); // Parse JSON response

setLoadingTasks(false);

setTasks(result);
} catch (error) {
  setLoadingTasks(false);

  if (error.message === 'Error: 401') {
    localStorage.removeItem('authToken');

    navigate('/login'); // Redirect to login if token is invalid
  } else {
    alert(Error loading tasks: ${error.message}); // Show the error message
  }
}
};

```

// Mark a task as completed

```

const markAsCompleted = async (taskId) => {
  const token = localStorage.getItem('authToken');

  if (!token) {
    navigate('/login'); // Redirect to login if no token

    return;
  }

```

```

setLoading(true);

```

```

const response = await fetch(http://localhost:5000/api/tasks/complete/${taskId}, {
  method: 'PUT',
  headers: {
    'Content-Type': 'application/json',
    'Authorization': Bearer ${token},
  },
});

```

```

const result = await response.json();

setLoading(false);

if (response.status === 200) {
  setTasks(tasks.map((task) =>
    task._id === taskId ? { ...task, completed: true } : task
  ));
} else {
  alert(result.message || 'Error marking task as completed');
}
};

// Delete a task from the backend with a confirmation prompt
const deleteTask = async (taskId) => {
  const token = localStorage.getItem('authToken');
  if (!token) {
    navigate('/login'); // Redirect to login if no token
    return;
  }

  const confirmDelete = window.confirm('Are you sure you want to delete this task?');
  if (!confirmDelete) return;

  setLoading(true);

  const response = await fetch(http://localhost:5000/api/tasks/${taskId}, {
    method: 'DELETE',
    headers: {
      'Content-Type': 'application/json',
      'Authorization': Bearer ${token},
    },
  });

```

```

    },
  });

  const result = await response.json();
  setLoading(false);

  if (response.status === 200) {
    setTasks(tasks.filter((task) => task._id !== taskId));
  } else {
    alert(result.message || 'Error deleting task');
  }
};

// Edit a task (navigate to the edit page)
const editTask = (taskId) => {
  navigate(`/edit-task/${taskId}`);
};

// Fetch tasks when the component is mounted
useEffect(() => {
  loadTasks();
}, []);

// Logout function
const handleLogout = () => {
  localStorage.removeItem('authToken'); // Clear the token from localStorage
  navigate('/login'); // Redirect to login page
};

return (
  <div>

```

<Helmet>

<style>

{

body {

background-color: #f5f5f5; /\* Override background for Dashboard \*/

color: #333;

}

}

</style>

</Helmet>

<Header>

<h1>Welcome, {userName ? userName : 'User'}!</h1> { /\* Display the username part of the email \*/ }

<LogoutButton onClick={handleLogout}>Logout</LogoutButton>

</Header>

<Container>

<h3>Your Tasks</h3>

<AddTaskButton to="/add-task">Add New Task</AddTaskButton>

{ /\* Email Logs Button \*/ }

<EmailLogsButton to="/email-logs">View Email Logs</EmailLogsButton>

{loadingTasks ? (

<LoadingMessage>Loading tasks...</LoadingMessage>

): (

<TaskTable>

<thead>

<tr>

<th>Task</th>

```

<th>Due Date</th>

<th>Reminder</th>

<th>Action</th>

</tr>

</thead>

<tbody>

{tasks.length > 0 ? (
  tasks.map((task) => (
    <tr key={task._id}>

      <td>{task.title}</td>

      <td>{new Date(task.due_date).toLocaleString()}</td>

      <td>{task.reminder ? new Date(task.reminder).toLocaleString() : 'No reminder'}</td>

      <td>

        {task.completed ? (
          <CompletedLabel>Completed</CompletedLabel>

        ) : (
          <CompletedButton onClick={() => markAsCompleted(task._id)}>
            Mark as Completed
          </CompletedButton>

        )}

        <DeleteButton onClick={() => deleteTask(task._id)}>Delete Task</DeleteButton>

        <EditButton onClick={() => editTask(task._id)}>Edit Task</EditButton>

      </td>

    </tr>

  ))

) : (
  <tr>

    <td colspan="4">No tasks available</td>

  </tr>

)}

</tbody>

```

```
        </TaskTable>
    })
  </Container>
</div>
);
};
```

```
const Header = styled.header`
  background-color: #007BFF;
  color: white;
  padding: 20px;
  text-align: center;
`;
```

```
const LogoutButton = styled.button`
  background-color: #FF5733;
  color: white;
  padding: 10px 20px;
  border: none;
  cursor: pointer;
  border-radius: 4px;
  margin-left: 20px;
`;
```

```
const Container = styled.div`
  max-width: 900px;
  margin: 20px auto;
  padding: 20px;
  background: white;
  border-radius: 8px;
  box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
```



```
`;  
`;
```

```
const AddTaskButton = styled(Link)`  
  background-color: #4CAF50;  
  color: white;  
  padding: 10px 20px;  
  border: none;  
  cursor: pointer;  
  border-radius: 4px;  
  display: inline-block;  
  margin-bottom: 20px;  
  text-decoration: none;  
`;  
`;
```

```
const EmailLogsButton = styled(Link)`  
  background-color: #007BFF;  
  color: white;  
  padding: 10px 20px;  
  border: none;  
  cursor: pointer;  
  border-radius: 4px;  
  display: inline-block;  
  margin-bottom: 20px;  
  text-decoration: none;  
`;  
`;
```

```
const LoadingMessage = styled.div`  
  text-align: center;  
  padding: 20px;  
  font-size: 16px;  
`;  
`;
```

```
const TaskTable = styled.table`  
  width: 100%;  
  border-collapse: collapse;  
  margin-top: 20px;  
`;  
;
```

```
const CompletedLabel = styled.span`  
  color: green;  
  font-weight: bold;  
`;  
;
```

```
const CompletedButton = styled.button`  
  background-color: #4CAF50;  
  color: white;  
  padding: 5px 10px;  
  border: none;  
  cursor: pointer;  
  border-radius: 4px;  
`;  
;
```

```
const DeleteButton = styled.button`  
  background-color: #FF5733;  
  color: white;  
  padding: 5px 10px;  
  border: none;  
  cursor: pointer;  
  border-radius: 4px;  
  margin-left: 10px;  
`;  
;
```

```
const EditButton = styled.button`  
  background-color: #007BFF;  
  color: white;  
  padding: 5px 10px;  
  border: none;  
  cursor: pointer;  
  border-radius: 4px;  
  margin-left: 10px;  
`;  
;
```

```
export default Dashboard;
```

## 5.EDIT TASK

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

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

import styled from 'styled-components';

const EditTask = () => {

  const { taskId } = useParams(); // Get taskId from URL

  const [task, setTask] = useState({

    title: "",

    due_date: "",

    reminder: "",

    completed: false, // Added 'completed' state

  });

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

  const [loading, setLoading] = useState(true);

  const navigate = useNavigate();

  // Fetch task data when the component is mounted

  useEffect(() => {

    const loadTask = async () => {

      const token = localStorage.getItem('authToken');

      if (!token) {

        window.location.href = '/login'; // Redirect to login if no token

        return;

      }

      try {

        const response = await fetch(http://localhost:5000/api/tasks/${taskId}, {

          method: 'GET',

          headers: {

            'Content-Type': 'application/json',
```

```

    'Authorization': Bearer ${token}, // Pass token for authorization
  },
});

if (!response.ok) {
  throw new Error('Task not found');
}

const result = await response.json();
setTask(result); // Set the task data to state
setLoading(false);
} catch (error) {
  setError('Error fetching task: ' + error.message);
  setLoading(false);
}
};

loadTask();
}, [taskId]);

// Handle form field changes
const handleChange = (e) => {
  const { name, value, type, checked } = e.target;
  if (type === 'checkbox') {
    setTask((prevTask) => ({ ...prevTask, [name]: checked }));
  } else {
    setTask((prevTask) => ({ ...prevTask, [name]: value }));
  }
};

// Handle task update

```

```
const handleUpdate = async (e) => {  
  e.preventDefault();  
  
  const token = localStorage.getItem('authToken');  
  if (!token) {  
    window.location.href = '/login'; // Redirect to login if no token  
    return;  
  }  
  
  setLoading(true);  
  
  try {  
    const response = await fetch(http://localhost:5000/api/tasks/${taskId}, {  
      method: 'PUT',  
      headers: {  
        'Content-Type': 'application/json',  
        'Authorization': Bearer ${token}, // Pass token for authorization  
      },  
      body: JSON.stringify(task), // Send updated task data  
    });  
  
    const result = await response.json();  
  
    if (response.status === 200) {  
      alert('Task updated successfully');  
      navigate('/dashboard'); // Redirect to dashboard after updating  
    } else {  
      setError(result.message || 'Error updating task');  
    }  
  } catch (error) {  
    setError('Error updating task: ' + error.message);  
  }  
}
```

```
} finally {  
    setLoading(false);  
}  
};
```

```
if (loading) return <div>Loading...</div>; // Loading state
```

```
return (  
    <Container>  
        <Heading>Edit Task</Heading>  
        {error && <Error>{error}</Error>}  
        <Form onSubmit={handleUpdate}>  
            <InputContainer>  
                <Label htmlFor="title">Task Title</Label>  
                <Input  
                    type="text"  
                    id="title"  
                    name="title"  
                    placeholder="Enter task title"  
                    value={task.title}  
                    onChange={handleChange}  
                    required  
                />  
            </InputContainer>  
  
            <InputContainer>  
                <Label htmlFor="due_date">Due Date</Label>  
                <Input  
                    type="datetime-local"  
                    id="due_date"  
                    name="due_date"
```

```
      value={task.due_date ? task.due_date.slice(0, 16) : ""} // Format date for input
      onChange={handleChange}
      required
    />
  </InputContainer>
```

```
<InputContainer>
  <Label htmlFor="reminder">Reminder</Label>
  <Input
    type="datetime-local"
    id="reminder"
    name="reminder"
    value={task.reminder ? task.reminder.slice(0, 16) : ""} // Format date for input
    onChange={handleChange}
  />
</InputContainer>
```

```
{/* Completed Checkbox */}
<InputContainer>
  <Label htmlFor="completed">Completed</Label>
  <Checkbox
    type="checkbox"
    id="completed"
    name="completed"
    checked={task.completed}
    onChange={handleChange}
  />
</InputContainer>
```

```
<Button type="submit" disabled={loading}>Update Task</Button>
</Form>
```



```
    </Container>

  );
};

// Styled Components
const Container = styled.div`
  max-width: 600px;
  margin: 0 auto;
  padding: 20px;
  background: #f9f9f9;
  border-radius: 8px;
  box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
`;

const Heading = styled.h1`
  text-align: center;
  margin-bottom: 20px;
`;

const Form = styled.form`
  display: flex;
  flex-direction: column;
`;

const InputContainer = styled.div`
  margin-bottom: 15px;
`;

const Label = styled.label`
  font-weight: bold;
  margin-bottom: 5px;
```

```
display: block;  
`;  
`;
```

```
const Input = styled.input`  
width: 100%;  
padding: 10px;  
margin-top: 5px;  
border-radius: 4px;  
border: 1px solid #ddd;  
`;  
`;
```

```
const Checkbox = styled.input`  
width: auto;  
margin-top: 5px;  
margin-left: 10px;  
`;  
`;
```

```
const Button = styled.button`  
width: 100%;  
padding: 10px;  
background-color: #4caf50;  
color: white;  
border: none;  
border-radius: 4px;  
cursor: pointer;  
font-size: 16px;  
`;  
`;
```

```
const Error = styled.div`  
color: red;  
margin-bottom: 15px;
```

```
font-weight: bold;
```

```
text-align: center;
```

```
`;
```

```
export default EditTask;
```

## 6.EMAIL LOGS

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

import axios from 'axios';

import { useNavigate } from 'react-router-dom'; // Import useNavigate

const EmailLogs = () => {

  const [emailLogs, setEmailLogs] = useState([]); // State to hold email logs

  const [loading, setLoading] = useState(true); // State for loading

  const [error, setError] = useState(""); // State for errors

  const navigate = useNavigate(); // Hook to navigate programmatically

  useEffect(() => {

    const fetchEmailLogs = async () => {

      const token = localStorage.getItem('authToken'); // Get the token from localStorage

      // If no token, redirect to login page

      if (!token) {

        navigate('/login');

        return;

      }

      try {

        const response = await axios.get('http://localhost:5000/api/email-logs', {

          headers: {

            Authorization: `Bearer ${token}`, // Send token in Authorization header

          },

        });

        setEmailLogs(response.data); // Set email logs state

        setLoading(false); // Set loading to false when data is fetched

      } catch (error) {
```

```

    setLoading(false); // Set loading to false in case of error
    if (error.response && error.response.status === 401) {
      // If token is invalid/expired, redirect to login
      localStorage.removeItem('authToken'); // Optional: Clear invalid token from localStorage
      navigate('/login');
    } else {
      setError('Error fetching email logs. Please try again later.');
```

```
    }
```

```
  }
```

```
};
```

```
fetchEmailLogs();
```

```
}, [navigate])); // Add navigate as a dependency
```

```
return (
```

```
<div>
```

```
<h2>Email Logs</h2>
```

```
{loading ? (
```

```
<div>Loading...</div> // Show loading message or spinner
```

```
): error ? (
```

```
<div style={{ color: 'red' }}>{error}</div> // Display error message if fetching fails
```

```
): (
```

```
<div>
```

```
{emailLogs.length === 0 ? (
```

```
<p>No email logs found.</p> // Message when no logs are found
```

```
): (
```

```
<ul>
```

```
{emailLogs.map((log) => (
```

```
<li key={log._id}>
```

```
<strong>{log.subject}</strong> - {log.to} - {new Date(log.sentAt).toLocaleString()}
```

```
        </li>
    }}}
</ul>
})
</div>
})
</div>
);
};

export default EmailLogs;
```

## 7.EMAIL SENDING CODE

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

// Configure the email transporter (this example uses Gmail's SMTP server)
const transporter = nodemailer.createTransport({
  service: 'gmail',
  auth: {
    user: 'studyplanner575@gmail.com', // Replace with your email address
    pass: 'qdxl wkbq gvmh kalc', // Replace with your email password or app-specific password
  },
  tls: {
    rejectUnauthorized: false // Disable certificate validation (only for development)
  }
});

// Function to send email
const sendEmail = async (to, subject, text) => {
  const mailOptions = {
    from: 'studyplanner575@gmail.com', // Sender email
    to: to, // Recipient email
    subject: subject, // Email subject
    text: text, // Email body
  };

  try {
    const info = await transporter.sendMail(mailOptions);
    console.log('Email sent: ' + info.response);
  } catch (error) {
    console.error('Error sending email: ', error);
  }
};
```

```
module.exports = sendEmail;
```