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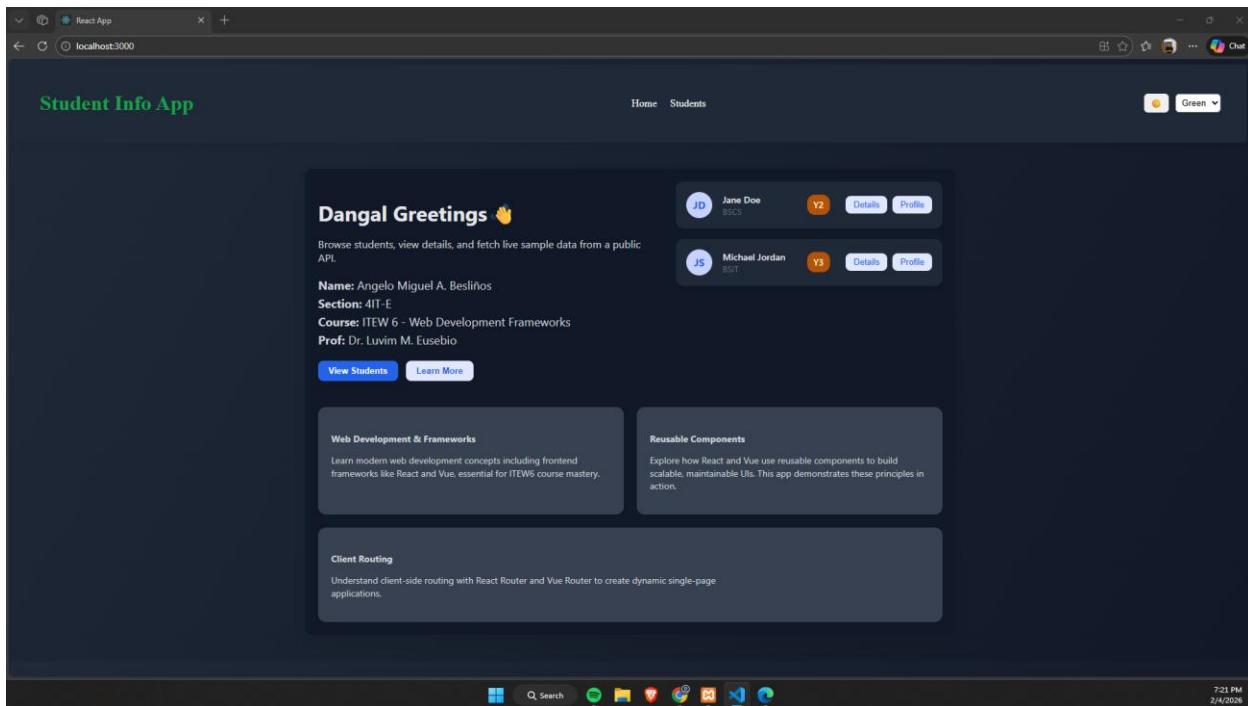
Date: 02/09/26

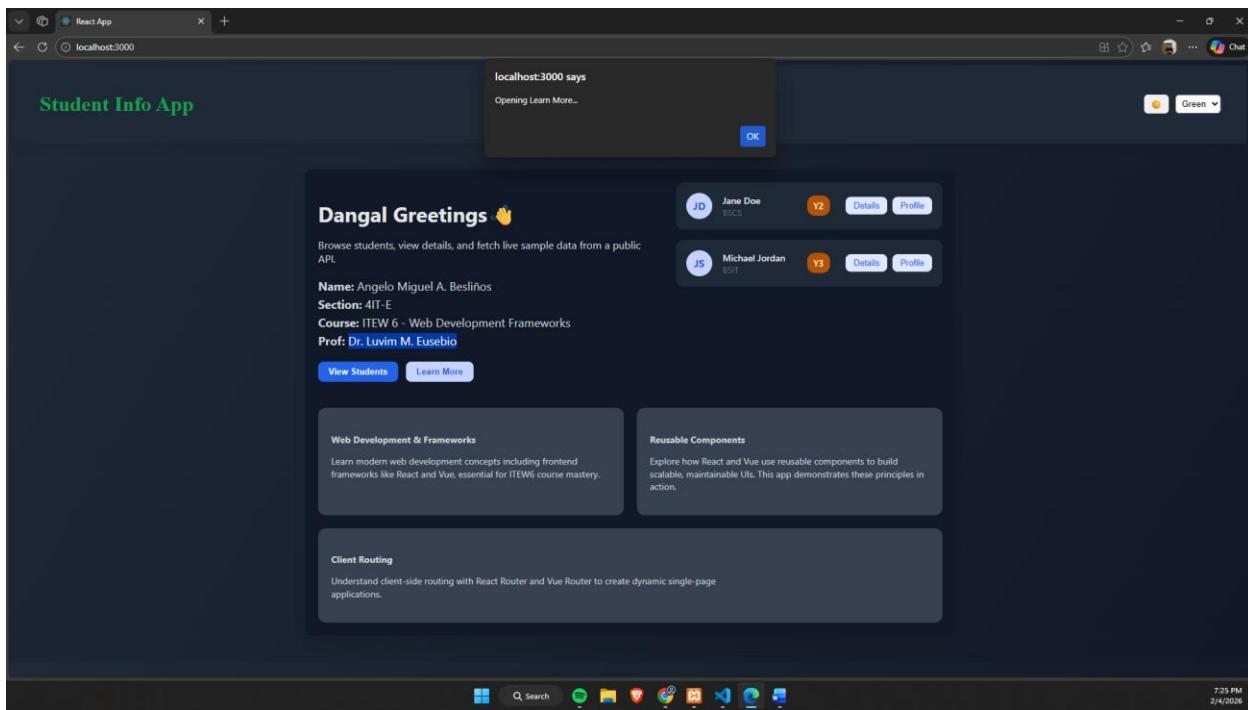
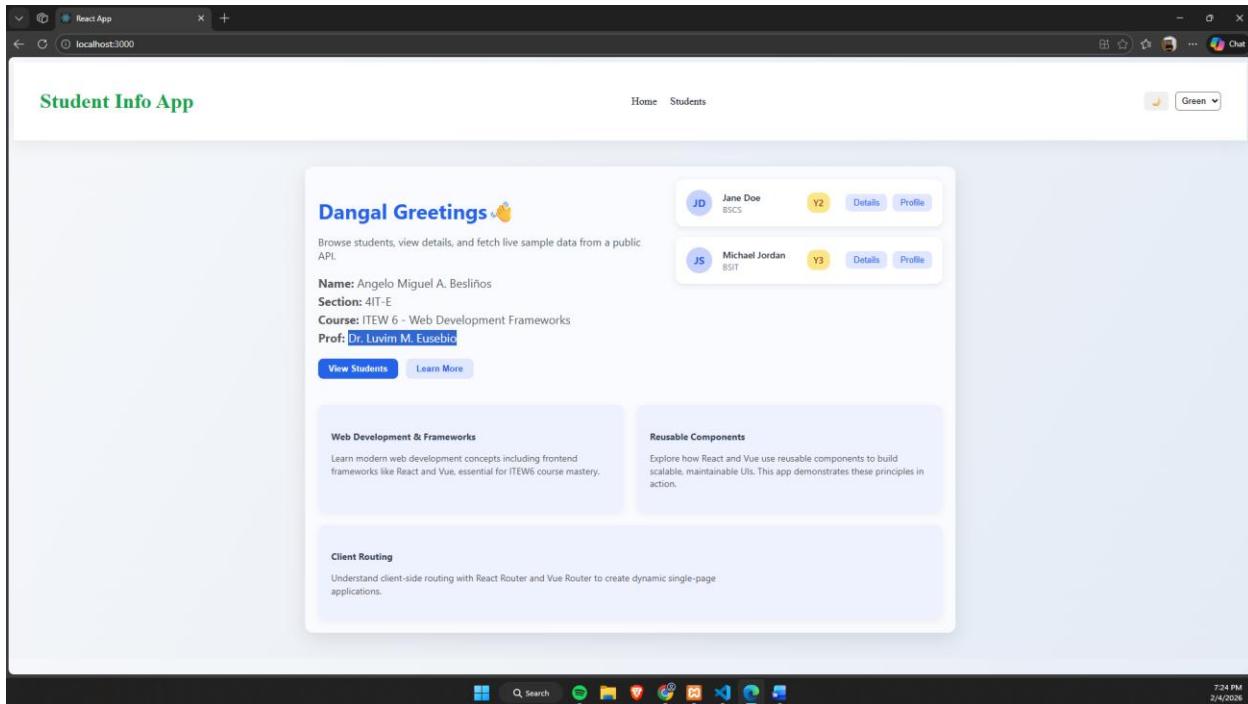
Year And Section: 4IT-E

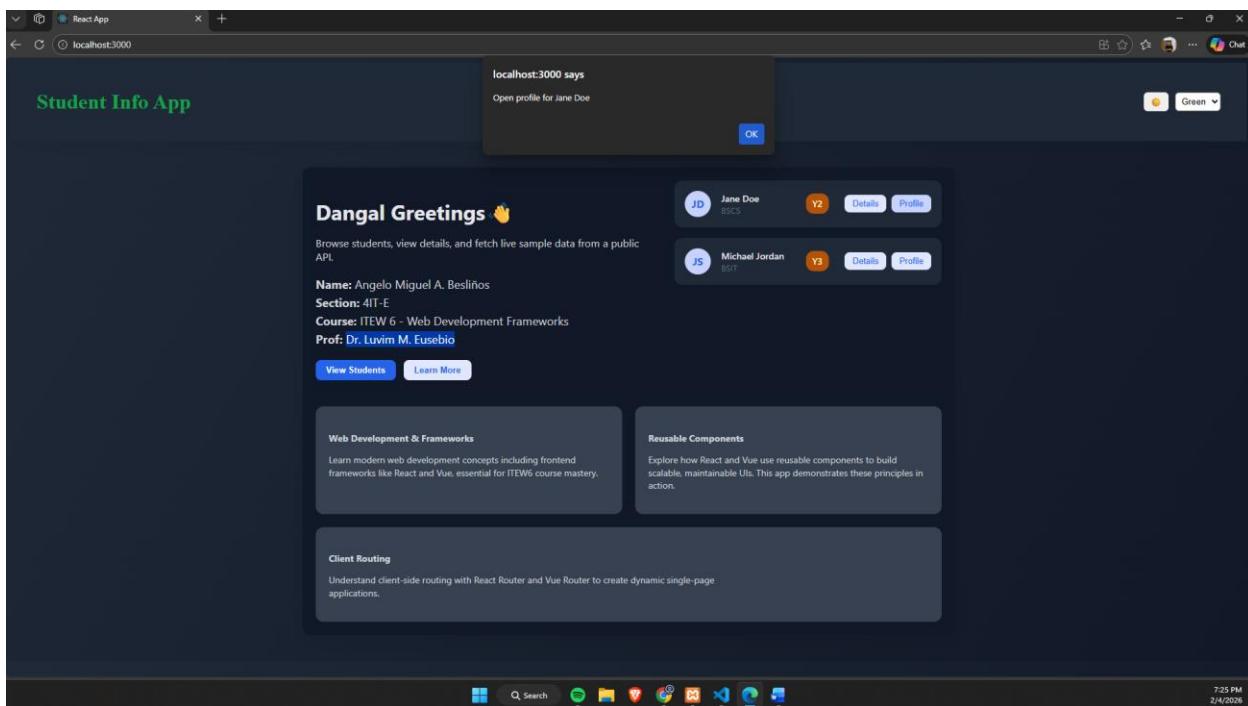
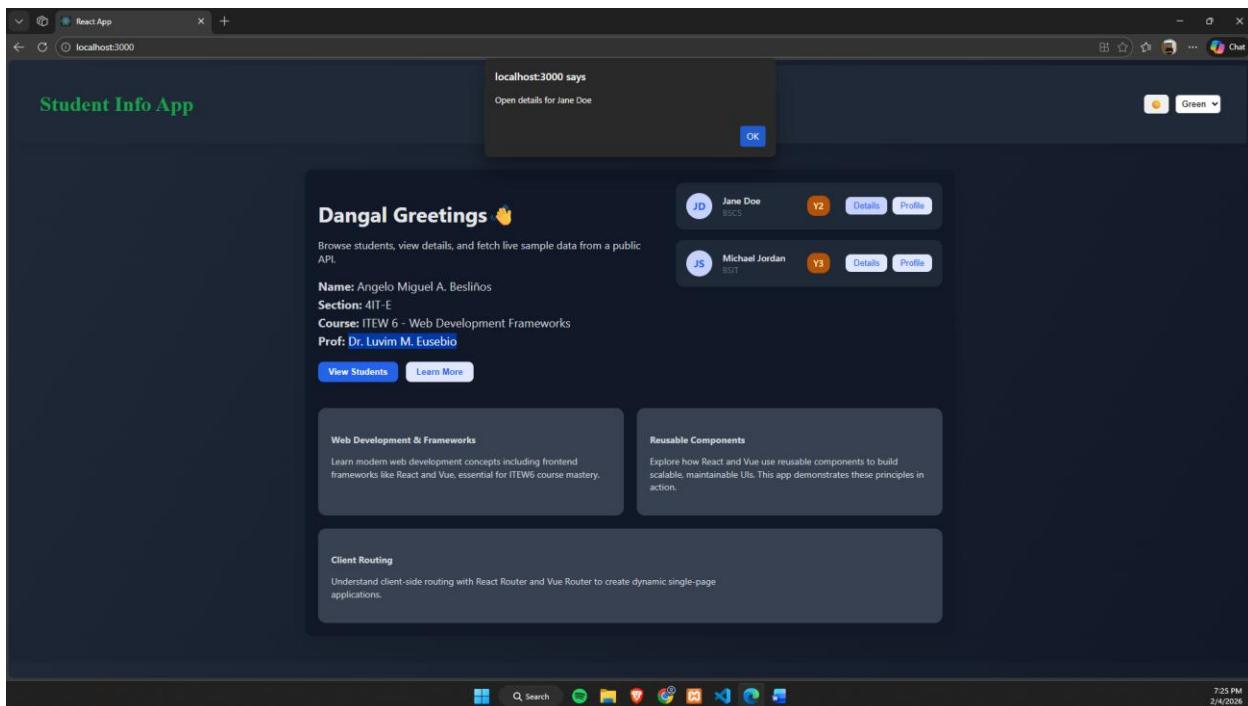
Prof: Dr. Luvim M. Eusebio

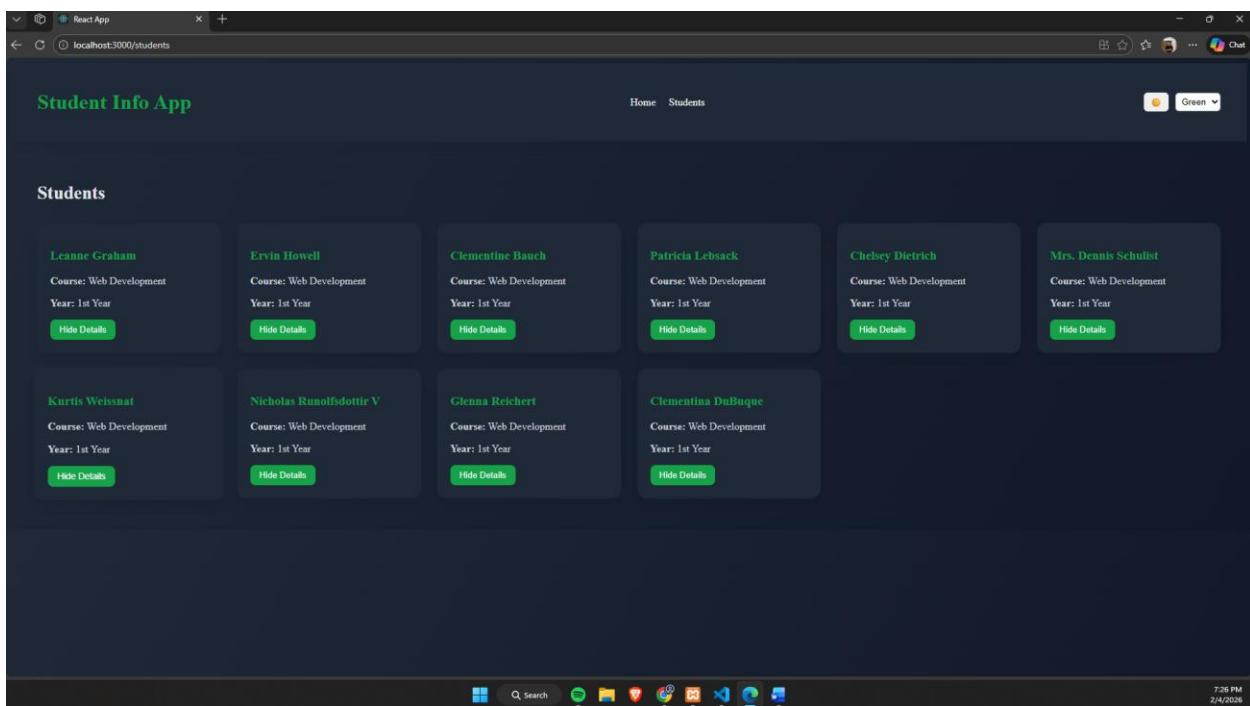
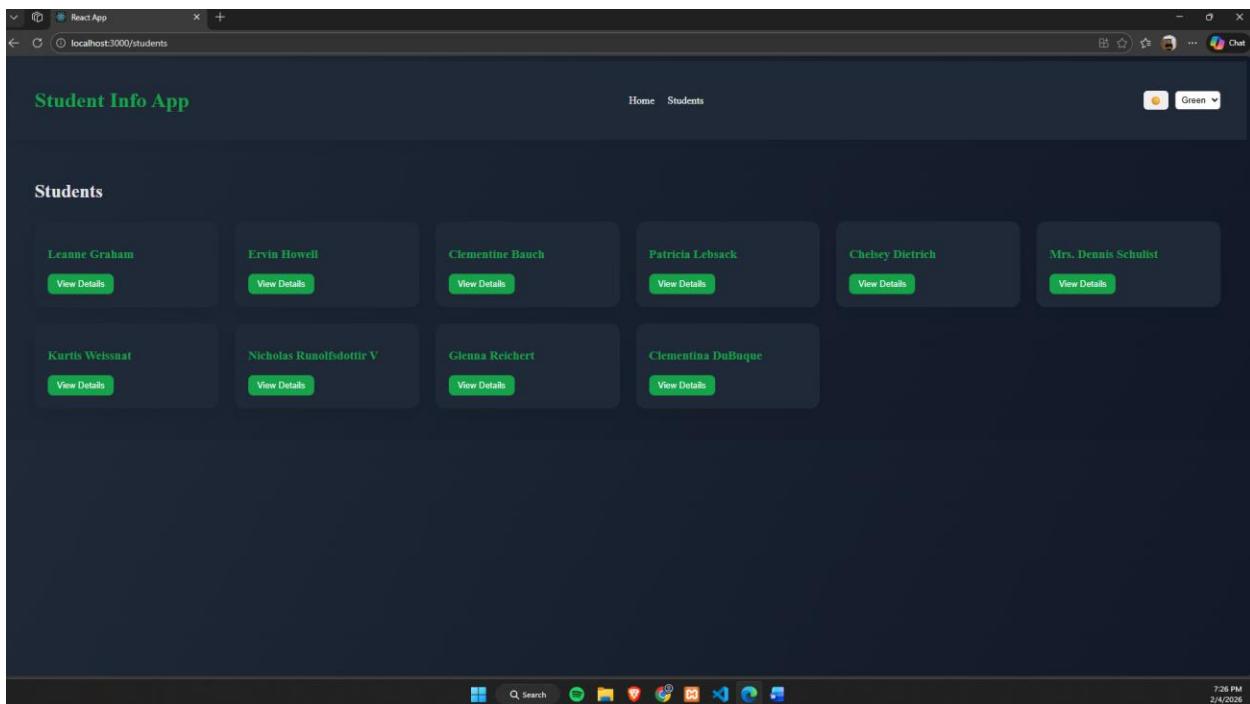
ITEW 6 – Web Development Frameworks

LAB EXAM









Components:

HeaderComponents.js

```
import React, { useContext } from "react";
import { Link } from "react-router-dom";
import { ThemeContext } from "../context/ThemeContext";
import "./Header.css";

function HeaderComponent({ title }) {
  const { darkMode, setDarkMode, themeColor, setThemeColor } =
    useContext(ThemeContext);

  return (
    <header
      className={`header ${darkMode ? "dark" : ""}`}
      style={{ "--accent": themeColor }}
    >
      <h1>{title}</h1>

      <nav>
        <Link to="/">Home</Link>
        <Link to="/students">Students</Link>
      </nav>

      <div className="controls">
        <button onClick={() => setDarkMode(!darkMode)}>
          {darkMode ? "☀️" : "🌙"}
        </button>
      </div>
    
```

```

        </button>

        <select onChange={(e) => setThemeColor(e.target.value)}>
          <option value="#4f46e5">Indigo</option>
          <option value="#16a34a">Green</option>
          <option value="#dc2626">Red</option>
          <option value="#0ea5e9">Blue</option>
        </select>
      </div>
    </header>
  );
}

export default HeaderComponent;

```

StudentComponents.js

```

import React, { useState, useContext } from "react";
import { motion } from "framer-motion";
import { ThemeContext } from "../context/ThemeContext";
import "./Student.css";

function StudentComponent({ name, course, year }) {
  const [showInfo, setShowInfo] = useState(false);
  const { themeColor } = useContext(ThemeContext);

  return (
    <div style={{ background: themeColor }}>
      <h3>{name}</h3>
      <p>Course: {course}</p>
      <p>Year: {year}</p>
      <button onClick={() => setShowInfo(!showInfo)}>
        Show Info
      </button>
      <div style={{ display: showInfo ? "block" : "none" }}>
        <table border="1">
          <thead>
            <tr>
              <th>Subject</th>
              <th>Score</th>
            </tr>
          </thead>
          <tbody>
            <tr>
              <td>Math</td>
              <td>85</td>
            </tr>
            <tr>
              <td>Science</td>
              <td>90</td>
            </tr>
            <tr>
              <td>History</td>
              <td>78</td>
            </tr>
            <tr>
              <td>English</td>
              <td>88</td>
            </tr>
          </tbody>
        </table>
      </div>
    </div>
  );
}

export default StudentComponent;

```

```
<motion.div
  className="student-card"
  style={{ "--accent": themeColor }}
  initial={{ opacity: 0, y: 20 }}
  animate={{ opacity: 1, y: 0 }}
  whileHover={{ scale: 1.03 }}

>
<h3>{name}</h3>

{showInfo && (
  <motion.div
    initial={{ opacity: 0 }}
    animate={{ opacity: 1 }}

  >
  <p><strong>Course:</strong> {course}</p>
  <p><strong>Year:</strong> {year}</p>
  </motion.div>
) }

<button onClick={() => setShowInfo(!showInfo)}>
  {showInfo ? "Hide Details" : "View Details"}
</button>
</motion.div>
);

}
```

```
export default StudentComponent;
```

Student.css

```
.student-card {  
background: white;  
padding: 20px;  
border-radius: 14px;  
box-shadow: 0 10px 25px rgba(0, 0, 0, 0.08);  
}  
  
}
```

```
.student-card h3 {  
color: var(--accent);  
}  
  
}
```

```
.student-card button {  
background: var(--accent);  
color: white;  
border: none;  
padding: 8px 14px;  
border-radius: 8px;  
cursor: pointer;  
}  
  
}
```

Header.css

```
.header {  
background: white;
```

```
padding: 20px 40px;  
display: flex;  
justify-content: space-between;  
align-items: center;  
box-shadow: 0 8px 20px rgba(0, 0, 0, 0.05);  
}
```

```
.header.dark {  
background: #1f2937;  
color: white;  
}
```

```
.header h1 {  
color: var(--accent);  
}
```

```
.header nav a {  
margin: 0 10px;  
color: inherit;  
text-decoration: none;  
}
```

```
.controls {  
display: flex;  
gap: 10px;  
}
```

```
.controls button {  
    border: none;  
    padding: 6px 10px;  
    cursor: pointer;  
    border-radius: 6px;  
}  
  
/*  
 * Selectors for the dropdown menu.  
 */
```

```
.controls select {  
    padding: 5px;  
    border-radius: 6px;  
}
```

```
.nav-links {  
    display: flex;  
    gap: 12px;  
    margin-bottom: 20px;  
}
```

```
.nav-links a {  
    display: inline-block;  
    padding: 10px 20px;  
    font-weight: 700;  
    border-radius: 10px;  
    text-decoration: none;  
    cursor: pointer;
```

```
    box-shadow: 0 4px 10px rgb(0 0 0 / 0.1);  
    font-family: "Segoe UI", Tahoma, Geneva, Verdana, sans-serif;  
    font-size: 15px;  
    transition: background-color 0.3s, color 0.3s, box-shadow 0.3s;  
    user-select: none;  
}  
  
/* Home link styling */
```

```
.nav-links a[href="/"]:not(.active) {  
    background-color: #2563eb;  
    color: white;  
}
```

```
.nav-links a[href="/"]:not(.active):hover {  
    background-color: #1e40af;  
    box-shadow: 0 6px 15px rgb(37 99 235 / 0.6);  
}
```

```
/* Students link styling */  
.nav-links a[href="/students"]:not(.active) {  
    background-color: #e0e7ff;  
    color: #2563eb;  
    border: 2px solid #2563eb;  
}
```

```
.nav-links a[href="/students"]:not(.active):hover {
```

```
background-color: #c7d2fe;  
box-shadow: 0 6px 15px rgb(199 210 254 / 0.6);  
}
```

```
/* Active link styling */  
.nav-links a.active {  
box-shadow: 0 0 12px 2px #2563eb;  
outline: none;  
}
```

```
/* Dark mode overrides */  
.dark .nav-links a[href="/"]:not(.active) {  
background-color: #3b82f6;  
color: #e0e7ff;  
}
```

```
.dark .nav-links a[href="/"]:not(.active):hover {  
background-color: #2563eb;  
box-shadow: 0 6px 15px rgb(37 99 235 / 0.8);  
}
```

```
.dark .nav-links a[href="/students"]:not(.active) {  
background-color: #1e3a8a;  
color: #bfdbfe;  
border-color: #bfdbfe;  
}
```

```
.dark .nav-links a[href="/students"]:not(.active):hover {  
background-color: #2563eb;  
box-shadow: 0 6px 15px rgb(37 99 235 / 0.8);  
}  
  
Pages
```

Home.js

```
import React from "react";  
import { Link } from "react-router-dom";  
import "./Pages.css";  
  
function Home() {  
const studentInfo = {  
name: "Angelo Miguel A. Besliños",  
section: "4IT-E",  
course: "ITEW 6 - Web Development Frameworks",  
prof: "Dr. Luvim M. Eusebio",  
};  
  
const sampleStudents = [  
{  
initials: "JD",  
name: "Jane Doe",  
course: "BSCS",  
year: "Y2",
```

```
        },
        {
          initials: "JS",
          name: "Michael Jordan",
          course: "BSIT",
          year: "Y3",
        },
      ];
    }

    // Handlers that show alert popups
    const handleLearnMore = () => {
      alert("Opening Learn More...");
    };

    const handleDetails = (studentName) => {
      alert(`Open details for ${studentName}`);
    };

    const handleProfile = (studentName) => {
      alert(`Open profile for ${studentName}`);
    };

    return (
      <div className="page home-wrapper">
        <div className="home-content">
          <div className="welcome-section">
```

```
<h2>Dangal Greetings 🙌 </h2>
<p className="subtext">
  Browse students, view details, and fetch live sample data from a
  public API.
</p>

<div className="personal-info">
  <p>
    <strong>Name:</strong> {studentInfo.name}
  </p>
  <p>
    <strong>Section:</strong> {studentInfo.section}
  </p>
  <p>
    <strong>Course:</strong> {studentInfo.course}
  </p>
  <p>
    <strong>Prof:</strong> {studentInfo.prof}
  </p>
</div>

<div className="buttons">
  <Link to="/students">
    <button className="primary-btn">View Students</button>
  </Link>
  <button className="secondary-btn" onClick={handleLearnMore}>
```

Learn More

```
</button>  
</div>  
</div>
```

```
<div className="student-cards-preview">  
  {sampleStudents.map((s) => (  
    <div key={s.name} className="student-card-preview">  
      <div className="student-initials">{s.initials}</div>  
      <div className="student-info">  
        <div className="student-name">{s.name}</div>  
        <div className="student-course">{s.course}</div>  
      </div>  
      <div className="student-year">{s.year}</div>  
      <div className="student-actions">  
        <button onClick={() => handleDetails(s.name)}>Details</button>  
        <button onClick={() => handleProfile(s.name)}>Profile</button>  
      </div>  
    </div>  
  ))}  
</div>  
</div>
```

```
<div className="features-section">  
  <div className="feature-card">  
    <h4>Web Development & Frameworks</h4>
```

```
<p>Learn modern web development concepts including frontend frameworks like React and Vue,
```

```
essential for ITEW6 course mastery.</p>
```

```
</div>
```

```
<div className="feature-card">
```

```
    <h4>Reusable Components</h4>
```

```
    <p>Explore how React and Vue use reusable components to build scalable, maintainable UIs.
```

```
This app demonstrates these principles in action.</p>
```

```
</div>
```

```
<div className="feature-card">
```

```
    <h4>Client Routing</h4>
```

```
    <p> Understand client-side routing with React Router and Vue Router to create dynamic single-page applications.</p>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
);
```

```
}
```

```
export default Home;
```

Student.js

```
import React, { useEffect, useState } from "react";
```

```
import StudentComponent from "../components/StudentComponent";
```

```
import "./Pages.css";
```

```
function Students() {  
  
  const [students, setStudents] = useState([]);  
  
  const [loading, setLoading] = useState(true);  
  
  const [error, setError] = useState(null);  
  
  
  useEffect(() => {  
    fetch("https://jsonplaceholder.typicode.com/users")  
      .then((res) => {  
        if (!res.ok) throw new Error("Failed to fetch data");  
  
        return res.json();  
      })  
      .then((data) => {  
        setStudents(data);  
        setLoading(false);  
      })  
      .catch((err) => {  
        setError(err.message);  
        setLoading(false);  
      });  
  }, []);
```

```
if (loading) return <p className="status">Loading students...</p>;
```

```
if (error) return <p className="status error">{error}</p>;
```

```
return (  
  <div className="page">
```

```
<h2>Students</h2>

<div className="grid">
  {students.map((student) => (
    <StudentComponent
      key={student.id}
      name={student.name}
      course="Web Development"
      year="1st Year"
    />
  )));
</div>
</div>
);

}

export default Students;
```

Pages.css

```
.page {
  padding: 40px;
  transition: color 0.3s;
}
```

```
/* Light mode text */
```

```
.page h2 {
```

```
    font-size: 28px;  
    margin-bottom: 15px;  
    color: #1f2937;  
}
```

```
.page p {  
    color: #555;  
    max-width: 600px;  
}
```

```
/* Dark mode overrides */  
.dark .page h2 {  
    color: #e5e7eb; /* light text */  
}
```

```
.dark .page p {  
    color: #d1d5db; /* slightly lighter gray for dark mode */  
}
```

```
/* Grid layout */  
.grid {  
    display: grid;  
    grid-template-columns: repeat(auto-fill, minmax(260px, 1fr));  
    gap: 25px;  
    margin-top: 30px;  
}
```

```
/* Status messages */

.status {
  padding: 40px;
  font-size: 18px;
}

.status.error {
  color: crimson;
}

.home-wrapper {
  max-width: 960px;
  margin: 40px auto;
  padding: 20px;
  background: var(--card-bg, #f9fbff);
  border-radius: 12px;
  box-shadow: 0 10px 30px rgb(0 0 0 / 0.1);
  color: var(--text-color, #1f2937);
  transition: background 0.3s, color 0.3s;
  font-family: "Segoe UI", Tahoma, Geneva, Verdana, sans-serif;
}

/* Dark mode overrides */

.dark .home-wrapper {
  background: #111827;
```

```
color: #e5e7eb;  
}  
  
/* Layout flex for top section */  
.home-content {  
    display: flex;  
    justify-content: space-between;  
    gap: 40px;  
    flex-wrap: wrap;  
    margin-bottom: 40px;  
}  
  
/* Welcome section */  
.welcome-section {  
    flex: 1 1 400px;  
    min-width: 280px;  
}  
  
.welcome-section h2 {  
    font-weight: 700;  
    font-size: 32px;  
    margin-bottom: 8px;  
    color: var(--accent, #2563eb);  
}  
  
.welcome-section .subtext {
```

```
    font-size: 16px;  
    color: var(--text-muted, #4b5563);  
    margin-bottom: 20px;  
}  
  

```

```
.personal-info p {  
    margin: 4px 0;  
    font-size: 18px;  
}  
  

```

```
.buttons {  
    margin-top: 20px;  
}  
  

```

```
.primary-btn,  
.secondary-btn {  
    padding: 8px 16px;  
    font-weight: 600;  
    border-radius: 8px;  
    border: none;  
    cursor: pointer;  
    margin-right: 12px;  
    transition: background-color 0.3s;  
}  
  

```

```
.primary-btn {
```

```
background-color: #2563eb;  
color: white;  
}
```

```
.primary-btn:hover {  
background-color: #1d4ed8;  
}
```

```
.secondary-btn {  
background-color: #e0e7ff;  
color: #2563eb;  
}
```

```
.secondary-btn:hover {  
background-color: #c7d2fe;  
}
```

```
/* Student cards preview */  
.student-cards-preview {  
flex: 1 1 300px;  
display: flex;  
flex-direction: column;  
gap: 16px;  
}
```

```
.student-card-preview {
```

```
background: white;  
border-radius: 12px;  
box-shadow: 0 3px 10px rgb(0 0 0 / 0.08);  
padding: 16px;  
display: flex;  
align-items: center;  
gap: 16px;  
color: #1f2937;  
font-size: 14px;  
transition: background 0.3s, color 0.3s;  
}  
  
}
```

```
.dark .student-card-preview {  
background: #1f2937;  
color: #e5e7eb;  
}
```

```
.student-initials {  
background-color: #c7d2fe;  
color: #2563eb;  
font-weight: 700;  
font-size: 16px;  
border-radius: 50%;  
width: 40px;  
height: 40px;  
display: flex;
```

```
justify-content: center;  
align-items: center;  
}  
  
}
```

```
.student-info {  
flex-grow: 1;  
}
```

```
.student-name {  
font-weight: 600;  
}
```

```
.student-course {  
font-size: 13px;  
color: #64748b;  
}
```

```
.student-year {  
background: #fde68a;  
border-radius: 12px;  
padding: 6px 10px;  
font-weight: 600;  
color: #92400e;  
}
```

```
.dark .student-year {
```

```
background: #b45309;  
color: #fef3c7;  
}  
  
}
```

```
.student-actions button {  
margin-left: 8px;  
background: #e0e7ff;  
border: none;  
border-radius: 8px;  
padding: 6px 12px;  
font-size: 13px;  
cursor: pointer;  
color: #2563eb;  
transition: background-color 0.3s;  
}
```

```
.student-actions button:hover {  
background: #c7d2fe;  
}
```

```
/* Features section */  
.features-section {  
display: flex;  
gap: 20px;  
justify-content: space-between;  
flex-wrap: wrap;
```

```
}
```

```
.feature-card {  
  flex: 1 1 30%;  
  background: #eef2ff;  
  padding: 20px;  
  border-radius: 12px;  
  box-shadow: 0 3px 10px rgb(0 0 0 / 0.05);  
  color: #334155;  
  transition: background 0.3s, color 0.3s;  
  font-size: 14px;  
}
```

```
.dark .feature-card {  
  background: #374151;  
  color: #d1d5db;  
}
```

```
.feature-card h4 {  
  margin-bottom: 10px;  
  font-weight: 700;  
}
```

```
.feature-card p {  
  line-height: 1.4;  
}
```

App.js

```
import React, { useContext, useEffect } from "react";
import { BrowserRouter as Router, Routes, Route } from "react-router-dom";
import { ThemeContext } from "./context/ThemeContext";

import HeaderComponent from "./components/HeaderComponent";
import Home from "./pages/Home";
import Students from "./pages/Students";

function App() {
  const { darkMode } = useContext(ThemeContext);

  // Add/remove class on body
  useEffect(() => {
    if (darkMode) {
      document.body.classList.add("dark");
      document.body.classList.remove("light");
    } else {
      document.body.classList.add("light");
      document.body.classList.remove("dark");
    }
  }, [darkMode]);

  return (
    <Router>
```

```

<HeaderComponent title="Student Info App" />

<Routes>

  <Route path="/" element={<Home />} />

  <Route path="/students" element={<Students />} />

</Routes>

</Router>

);

}

```

```
export default App;
```

```

File Edit Selection View Go Run Terminal Help      🔍 student-info-app
EXPLORER   HeaderComponent.js  Header.css  StudentComponent.js  Student.css  Home.js  Home.css  Pages.css  ThemeContext.js  index.js  App.js
public     logo192.png
src       faviconico
          index.html
          logo128.png
          robots.txt
          manifest.json
          logo.svg
          App.css
          App.js
          App.test.js
          index.css
          index.js
          logo.svg
          reportWebVitals.js
          setupTests.js
          .gitignore
          package-lock.json
          package.json
          README.md
src       Header.css
          HeaderComponent.js
          Student.css
          StudentComponent.js
context   ThemeContext.js
pages    Home.js
          Pages.css
          Students.js
          App.css
          App.js
          App.test.js
          index.css
          index.js
          logo.svg
          reportWebVitals.js
          setupTests.js
          .gitignore
          package-lock.json
          package.json
          README.md
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
PS C:\Users\VA\student-info-app> npm install framer-motion
run "npm fund" for details

11 vulnerabilities (5 moderate, 6 high)
To address issues that do not require attention, run:
  npm audit fix

To address all issues (including breaking changes), run:
  npm audit fix --force

Run "npm audit" for details.
PS C:\Users\VA\student-info-app>

```

In 22, Col 1 Spaces: 2 UFT-8 LF JavaScript 7:31 PM 2/4/2026