**CSC2102 - Web Programming I (23/24)**

**Final Group Assignment – Objective Sheet**

**Application Overview**

**Title:**

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| **Group Name: The Webmasters**  **Project Name: Student Projects Portfolio Site - (Academic Projects)** |

**Target Users:**

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| *(e.g., general public, students, kids, etc.)* |
| * Students * Academic Staff * Industry Professionals |

**Objectives:**

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| *(Briefly explain the objectives in points.)* |
| This project is designed to support student projects tied to the Department of Statistics & Computer Science, Faculty of Science, University of Peradeniya. It aims to provide a robust platform for students to collaborate, document, and showcase their work in statistics and computer science, fostering innovation and academic excellence. |

**Group Members and Individual Responsibilities**

**Number of Members:**

|  |
| --- |
| 11 |

**Corresponding Member:**

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| *Each group must designate one member as the Corresponding Member. The Corresponding Member will be responsible for submitting the Objective Sheet, final deliverables on behalf of the group.* |
| S/21/513 - Sivothayan .S |

**Individual Responsibilities:**

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| *Each group member must take responsibility for a specific, measurable and identifiable component of the assignment (e.g., a web page section, a feature implemented with JavaScript, a design component using CSS, etc.) and fill the following table.* |
| |  |  |  | | --- | --- | --- | | **No.** | **Student Registration Number** | **Assigned Task** | | 1 | S/21/063 | Project Page (Making Responsive UI/ UX) | | 2 | S/21/315 | About Page (Making Responsive UI/ UX) | | 3 | S/21/317 | About Page (Making Responsive UI/ UX) | | 4 | S/21/340 | Documentation (Make Documentation Page & Debug CSS) | | 5 | S/21/413 | Instructor Page (Making Responsive UI/ UX) | | 6 | S/21/466 | Student Page (Making Responsive UI/ UX) | | 7 | S/21/489 | Project Page (Making Responsive UI/ UX) | | 8 | S/21/490 | UI/ UX Testing & Resolve CSS Issues | | 9 | S/21/493 | Project Page (Making Responsive UI/ UX) | | 10 | S/21/513 | API Making, Dummy Data Creation & Project Page Logic Handling (Making Responsive UI/ UX, Logic Handling & Debugging) | | 11 | S/21/528 | UI/ UX Testing & Resolve CSS Issues | |

**Production:**

* Frontend: <https://projects.scs.sivothajan.me>
* Backend: <https://projects.api.scs.sivothajan.me>
* Json Data: <https://gh.sivothajan.me/data.projects.scs.pdn.ac.lk>
* Code Repository : [https://gh.sivothajan.me/ projects.scs.pdn.ac.lk-monorepo](https://gh.sivothajan.me/%20projects.scs.pdn.ac.lk-monorepo)

**Timeline and Deliverables**

**1. Setup Phase (Week 1)**

   - Initialize React + Vite project structure

   - Set up ESLint and development tools

   - Create component architecture plan

   - Configure CSS Modules and styling strategy

   - Set up version control and collaboration workflow

**2. Core Development Phase (Weeks 1-2)**

   - Implement core React components

   - Develop responsive layouts with CSS Modules

   - Create custom hooks for shared functionality

   - Implement client-side routing

   - Set up static data management

**3. Feature Implementation Phase (Weeks 2-3)**

   - Develop interactive features using React

   - Implement state management

   - Create dynamic filtering and search

   - Add animations and transitions

   - Implement responsive design features

**4. Integration and Testing Phase (Weeks 3- 4)**

   - Component integration

   - Cross-browser testing

   - Performance optimization

   - Accessibility testing

   - User testing and feedback

**5. Final Phase (Week 4)**

   - Bug fixes and refinements

   - Documentation completion

   - Performance benchmarking

   - Final cross-browser validation

   - Deployment preparation and testing