



University of Sri Jayewardenepura

B.Sc. (General) Degree First Year

Second Semester Terminal Course Unit Examination – February/March 2026

CSC 1051 - Full-Stack Fundamentals Laboratory

The project must be uploaded to GitHub, and the repository link must be included in the report as part of the submission.

Additionally, the final Zip version of the project must be uploaded to the designated Google Drive link, which will be shared before the submission deadline.

Flood Relief Management System

Project Description

You are required to develop a web-based Flood Relief Management System to support the collection and management of basic data during flood situations in Sri Lanka. The system must allow affected individuals to register, submit flood relief requests, and enable an administrator to manage users and monitor relief data through summarized reports.

The project must be implemented using the technologies taught in the module, with role-based access control.

Technology Stack (Mandatory)

- **Frontend:** JavaScript with HTML and CSS
- **Backend:** PHP (frameworks are not allowed)
- **Database:** MySQL (managed using phpMyAdmin)

Functional Requirements

1. User Authentication (All Users)

The system must provide authentication functionality for all users.

Features:

- Self-registration (Sign Up / Sign In)
- Login and Logout functionality
- Role-based access:
 - Admin
 - User (Affected Person)

2. Relief Request Management (Affected Person Role)

2.1 An authenticated affected person must be able to submit and manage flood relief requests.

Relief Request Details:

Each relief request must include the following information:

- Type of relief (*Food / Water / Medicine / Shelter*)
- District
- Divisional Secretariat
- GN Division
- Household details:
 - Contact person name
 - Contact number
 - Address
 - Number of family members
- Flood severity level:
 - Low
 - Medium
 - High
- Description
(*Any additional or special requirements must be mentioned here*)

2.2 The affected person must be able to:

- Create a relief request
- View their own relief requests
- Update request details
- Delete a relief request

3. User Management & Reporting (Admin Role)

The Admin must have full control over registered users and system data.

3.1 View Registered Users

- View all registered users in the system
- Select a user to view all detailed information of that user

The data must be shown as a structured summary report.

3.2 System Summary & Filtered Reports (Admin)

The Admin must be able to:

- Filter and view summarized system data based on selected criteria such as:
 - Area
 - Type of relief request

The system must automatically generate and display summary values using a filtering option,

Ex:

Total Registered Users: 125

- High Severity Households: 42
- Food Requests: 60
- Medicine Requests: 0

These summaries must:

- Be generated using MySQL database queries
- Update dynamically when records change

3.3 Delete Users

- The admin must be able to delete registered users when required

Report Requirement

- Reports must be displayed as a **formatted HTML page**
- The report should be:
 - Clear
 - Well-structured
 - Readable
- **PDF generation is not required**

*** Important

Provide a pop-up confirmation message to inform the user that an operation has been completed successfully.

Example:

User created a request → “Your relief request has been created successfully.”

Evaluation Criteria

Component	Marks (100%)
Submission & Setup (GitHub/Report/Google Drive)	5
Viva Presentation	30
Authentication & Roles	5
Relief Request Management	25
Admin Management	20
Reporting & Filters	5
UI Quality	5
Code Quality	5