

Course Project Assignment #1 - Front End Requirements

Due: Monday, Sept. 30, 2024 (plus 24-hour automatic extension if needed)

In this assignment, each group will select one of the following three projects to analyze the requirements of the project for the Front End (only) at this stage. The basic idea is to identify the requirements and write test cases to test the requirements. We will study this more in class. The project ideas to choose from are the following:

Project #1 description: Rental Management System

This project aims to develop a web application for managing various rental properties, including residential and commercial spaces. Key features will include tenant management, lease agreement creation, rent collection, and maintenance. The goal is to enhance operational efficiency and improve communication between property owners and tenants.

Project #2 description: Flight Ticket Booking System

This project aims to create a web application platform for booking flights. Users can search for flights, select seats, make payments, and perform other activities. The system will facilitate user to book flight smoothly to give an enhanced user experience.

Project #3 description: Medicine Management System for a Pharmacy

This project aims to develop a web-based pharmacy management system that prioritizes efficient medicine management and faster sales. Key features include order taking, drug information tracking, inventory monitoring, etc. By automating these tasks, the system will help pharmacies improve operational efficiency and provide better customer service.

Note: All the project submissions will be done through Github. Therefore, you should have an understanding of the basics of git and Github. [This tutorial](#) might help you understand the fundamentals.

This assignment consists of the following activities:

- a. GitHub repository creation and boilerplate code execution following the instructions: <https://github.com/anwardr/Cisc327-F24?tab=readme-ov-file>. Add a welcome message in the index.html page and take a screenshot and submit it along with other deliverable.
- b. Create and organize a complete set of requirements for the project (min. of 6 requirements).
- c. Once the requirements are identified, you need to plan for test case preparation for these requirements (the front-end perspectives only at this moment). **Do not write any programs yet.**
- d. For each of the requirements, design a user interface (using [Figma](#) or [Sketch](#)) to mimic the user interactions with the system.

Here is a sample requirement and its front-end test case:

Requirement 1: Users shall be able to register for a new account

Test Case Name: User Registration

Objective: To verify that users can successfully register for an account.

Action: In the user registration page, fill in valid user details (e.g., username, email, password) and click on the "Register" button.

Assert: Check that the user is registered and redirected to the login page with a success message.

Note: there may be one or many test cases defined for a front-end requirement.

What you should hand in:

1. The screenshot after running the boilerplate code and adding the welcome message.
2. List of the functional test cases for the identified requirements and what they are expected to test. For each test case, clearly define the input parameters and the output parameters/ action, as the sample above. Save these in a pdf file named Assignment-1-Frontend.pdf
3. Web link of your frontend UI diagrams as drawn using Figma or Sketch. Note these UI designs shall be accessible via publicly accessible weblink. Also, put this link within the pdf file under a section.
4. Create a folder named Assignment-1 in GitHub repository and put the updated pdf file in this folder. Finally, Push the latest changes to the remote repository.

Marking Criteria: Marks will be assigned between zero and the number of marks shown to a resolution of 0.5 mark.

Github repository setup	1 mark
Clear functional requirements	2 marks
Test cases definition	4 marks
UI design	2 marks
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Total	9 marks