Software Engineering and Testing. BSC Year 2, 2024/2025

Assessment 2: Requirements Document

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Declaration

I herby certify that this material, which I now submit for assessment on the programme of study leading to the award of Ordinary Degree in Computing in the Institute of Technology Blanchardstown, is entirely my own work except where otherwise stated.

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Country GP – Requirements

1. Project Overview

What is the project:

The project is about building a website for GP Office. It will allow both patients and staff to interact with different features, like ordering prescriptions, viewing patient rosters, and accessing general clinic information.

What the software will do:

This website will let users view pages like the homepage, staff roster, FAQs, and patient/ staff lists. It will also allow patients to place prescription orders, and, in the future, staff will be able to manage records. At the moment, most features are just placeholders or mock data (like for the staff and patients json files), but these will be connected to a database later.

Main components of the software system:

The website will include: A navigation bar for easy access to different sections. Multiple pages like home, staff details, FAQ, prescription orders, and patient list, forms for actions like ordering prescriptions and eventually, database integration to replace placeholder data with actual patient and staff information.

How will it be used:

Patients can visit the site to view information, request prescriptions, or find staff details. Staff will eventually have restricted access to manage patient information securely (through a login system that hasn't been implemented yet).

2. Document Revision

Version. 1.0 (13/02) - Index was created.

Version 1.1 (23/02) – Current website. All pages of current version up to date. No database functionality, most data is hardcoded as placeholder.

3. Scope

Functionality Included:

Home page with links to all the important sections of the site.

Staff page to list staff members and their roles.

FAQ page answering common questions.

Prescription ordering form for patients.

Patient list page (only accessible by staff in the future, but currently visible to everyone) listing patient details like names and prescriptions.

Functionality Excluded:

Login system for staff members to access restricted areas and manage patients.

Real database integration to store patient and staff data (this will replace the hardcoded mock data in JSON and on the site itself).

4. Walkthrough Scenarios

Who will use the system:
Patients will use the website to order prescriptions, view staff details, and find answers to their questions.
Staff will eventually use the system to manage patient information, but right now the patient list is public (which will change once a login system is implemented).

How they will use it:
A patient might go to the order page to submit a prescription request.
A staff member could go to the patients page to check patient records.

5. Software Requirements Analysis:

Functional Requirements:

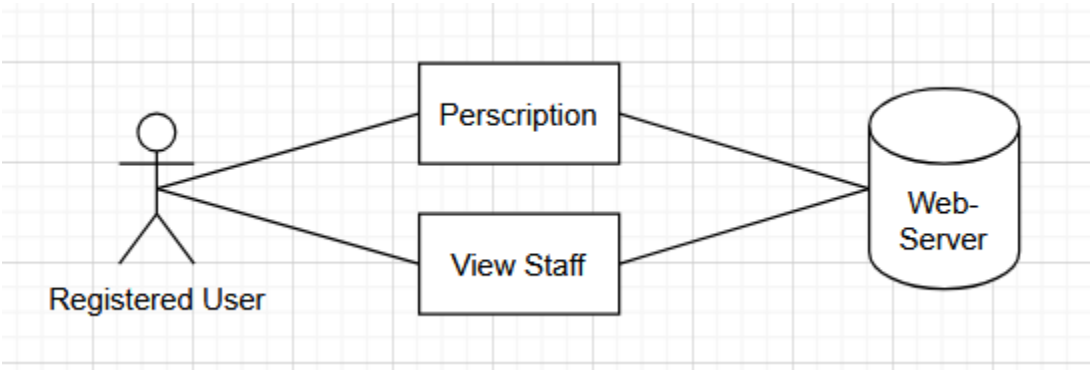
5.1 User Requirements

Patients should be able to see information about the clinic, order prescriptions, and check the FAQ.
Staff should be able to view the patient roster, though this will be restricted to authorized users later.

5.2 System Requirements

The system will allow patients to submit prescription orders through a form on the order.php page.
The system will eventually connect to a MySQL database for dynamic data handling (right now its all hardcoded in JSON files).

5.2.1 Use Case:



5.3 Non-functional Requirements:

Usability:
The site should be easy to navigate, even for those who aren't very tech-savvy.
Performance:
Pages should load without delays.

6. Graphical User Interface Design

Design:

The interface is simple, with navigation links and well-spaced content. The page layouts are clean and straightforward.

Usability:

The pages are easy to navigate, and care has been taken to avoid confusing or unnecessary elements. While the styling is a bit bland, the functionality is useable for now.

7. Technical Requirements and Feasibility:

System Models:
UML diagrams have not been added yet, but they are planned for inclusion when the database is injected. These diagrams will help visualize how data flows through the system.
Development Language
The website is being built using PHP, HTML, and CSS, with plans to integrate MySQL later for storing patient and staff information.
Persistent Storage:
Currently, JSON files (patients.json, staff.json) are used for mock data, which will eventually be replaced with a real MySQL database.
Interfaces & Software APIs:
No APIs are in used.

8. Conclusion

The proposed system is feasible with the current technology stack (PHP, HTML, CSS) and the intended database integration (MySQL) will be a logical extension of the system.

Recommendations;

Future improvements include adding user authentication, integrating MySQL to store patient and staff data dynamically, and implementing additional features like adding/removing records or managing appointments.

Content:

The requirements and functionality outlined match the project structure, including planned features like prescription orders, patient records, and staff information.

Completeness:

The user and system requirements are generally clear, and all sections of the document are covered.

Clarity:

The requirements and functionality are presented in a clear and logical manner, and all sections are written in an easily understandable language.