**Document 1 – Requirements & Design**

This document is contained in your GitHub repository in a folder named *docs*.

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| |  |  | | --- | --- | | Group | 1 | | Group Member Names |  |
|  | |  |  | | --- | --- | | 1. | Luke Edmondson | | 2. | Ryan Slaybaugh | | |  |  | | --- | --- | | 3. | Parker Harris | | 4. | René Zambrana | |
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**Project Description**

Organizing and synchronizing information between patients, receptionists, doctors, and nurses is always a difficult task. We seek to streamline this process with a system that allows patients to easily sign-in to appointments, and check on their prescribed medicines. The interface for the patients should be simple and easy to use, to give an overall better customer experience.

Our receptionists should be able to see all scheduled appointments, including their date, time, and name of the patient being seen. They should also be able to change these appointments, as necessary, for the convenience of our customers. The receptionists should also be able to confirm the arrival of patients as they check-in for their appointments, letting the doctors and nurses know their next patient has arrived.

Doctors and nurses should also have access to the medical history, current medications, etc. of patients that they see. Doctors should also be able to prescribe medications to patients and have this change reflected on their digital record. Nurses should be able to record the patient’s weight, height, blood pressure, etc., and they should be able to take notes on the symptoms a patient is currently experiencing. It is vital that this information be safeguarded so that only those doctors and nurses that are authorized have access to the patient files, and only for patients that are relevant to them.

This is a non-exhaustive list of features we desire for our practice’s digital system, and we may adjust our needs as new features are considered and currently requested features are developed.

**User Story Summary**

|  |  |
| --- | --- |
| **Num** | **Title** |
| 1 | Nurse |
| 2 | Doctor |
| 3 | Front Desk Worker |
| 4 | Patient |

**User Story 1 – *Nurse***

User Story

As a nurse I would like to be able to edit the current patients information, add notes, conduct admittance procedures (take the patient’s temp, weight, etc), and record in-depth symptomology. This information should be recorded in the patients file.

Flow

After a nurse logs in, they should be created with a dashboard giving them view access to all patients information, notes, and prescriptions. They should be able to edit the current weeks patients information and notes.

System Requirements

[Ongoing: A numbered list of requirements. This will develop as you learn more about the user story. This is not required for the initial submission of this document. But do mention anything that you come up with immediately. Or, it might just be a Note (below).]

Notes

[Ongoing: A numbered list of additional notes. This is not required for the initial submission of this document. But do mention anything that you come up with immediately.]

**User Story 2 – *Doctor***

User Story

As a Doctor I would like to be able to see all my patients’ medical history, past medicine prescribed, and update the medical history for the patient so that a patient medical file is up to date and make an accurate medical diagnosis for the patient.

Flow

The Doctor can pull up any patients' medical history and see what all medication has been prescribed to him/her. The Doctor can update the medical history and can prescribe medicine that is needed for the patient to make better medical diagnosis for the patient.

System Requirements

[Ongoing: A numbered list of requirements. This will develop as you learn more about the user story. This is not required for the initial submission of this document. But do mention anything that you come up with immediately. Or, it might just be a Note (below).]

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**User Story 3 – *Front Desk Worker***

User Story

As a front desk worker, I would like to be able to see a calendar of appointments and to be able to schedule appointments and look up appointments for patients and to sign in patients when they come for their appointments.

Flow

The desk worker should be able to sign into the application and access a calendar showing appointments for the month. The desk worker should also be able to add or take away patient appointments and to sign in patients who come in for their appointments.

System Requirements

[Ongoing: A numbered list of requirements. This will develop as you learn more about the user story. This is not required for the initial submission of this document. But do mention anything that you come up with immediately. Or, it might just be a Note (below).]

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**User Story 4 – *Patient***

User Story

As a patient, I need to be able to set up, change, and sign-in to appointments, and manage my prescriptions (such as ordering refills and checking the usage directions) easily and quickly.

Flow

The patient should have the ability to sign-in to their appointments either via a terminal in the Doctor’s office, or possibly even by phone. The patient should also be able to see prescription information and request refills (on medicines that have been prescribed previously, of course) as needed.

System Requirements

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Notes

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**Class Design**

[Provide a neat, legible, properly sized UML class diagram(s) for the domain of your system. Accompany these with any discussion that is necessary.]