LAMI Full-Stack APP

Project Requirements and Specifications

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**LAMI Team**

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**TABLE OF CONTENTS**

Contents

[I. Introduction 4](#_Toc115273157)

[II. System Requirements Specification 4](#_Toc115273158)

[II.1. Use Cases 4](#_Toc115273159)

[II.2. Functional Requirements 4](#_Toc115273160)

[II.2.1. Improvement of the UI 5](#_Toc115273161)

[II.2.2. Website Implementation 5](#_Toc115273162)

[II.2.3. Resident and Caretaker Accounts 5](#_Toc115273163)

[II.2.4. Resident Surveys 5](#_Toc115273164)

[II.3. Non-Functional Requirements 5](#_Toc115273165)

[II.3.1. Must be able to support around 10-15 users 6](#_Toc115273166)

[III. System Evolution 6](#_Toc115273167)

[IV. Glossary 6](#_Toc115273168)

[V. References 6](#_Toc115273169)

# Introduction

The LAMI team has been tasked with the continued construction of the LAMI app for medication reminders for the residents in the LAMI residence. As stated, this app will be used for the residents of the LAMI house who have mental illness and will serve as a reminder app that will help them take their medication at specified times. There will be a sign-in for both the caretakers and the residents so the residents can have safety in knowing the only people that can view their medications are the caretakers who will act as a secondary reminder (in the case that the resident does not take their medication after being prompted by the app). The end goal of this project is to create an app that is easy and enjoyable to use, making the task of remembering to take medication as easy as possible.

# System Requirements Specification

* Residents of the house should be able to access/run the application on iOS or Android operating systems.
* Residents of the house should be able to access/run the application on iOS, Android, or in a web browser.

## Use Cases

**Story:** Helene Davids is the employee currently overseeing the house and one of the residents, Oliver James, has just been prescribed a new medication. Helene wants to make sure that Oliver has set a reminder to take his new medication, but Helene isn’t scheduled to go back to the house until 3 days from now. She pulls out her phone and logs on to the LAMI app. She selects Oliver’s name from the list of current residents and sees that he has already set a reminder and thinks “I don’t know why I was worried, Oliver is awesome!”.

**Story:** Micah Ferguson is the employee currently overseeing the house and one of the residents, Brandy Hartford, has been acting a little different than usual. Micah wants to make sure that Brandy has been taking all of the medications she is supposed to. Micah logs on to the LAMI website, selects Brandy from the list of current residents, and opens her progress report. He sees that she has not been very consistent with taking her medications, so he makes a plan to talk to her and see how he can help.

## Functional Requirements

### Improvement of the UI

The main function of this project is to create an alarm and the previous team that worked on this project was able to do just that but didn’t have lots of time to make the app look as nice as the clients wanted. Not to say the UI made from the last team was bad, but they thought it was a bit bland and wanted something that would draw more attention toward the application. The clients want a UI that uses calm colors like the darker blues and greens and that has a nice layout; something like Duolingo’s UI in terms of layout. Like having a side bar for all the parts of the application like settings, calendar, and current medications. As this is something that the client has asked for and the main feature of the app is almost complete this would defiantly be at priority level 1. It’s not essential but it is something that can be worked on and improved as we move through the processes of making this app.

Repeat the above for each requirement.

### Website Implementation

The client wants the application to also be online where other employees of the LAMI house can access their app accounts to check up on residents in the LAMI house. This requirement was added since the client wanted the residents and caretakers to have more accessible platforms to choose from for the application. Additionally, the client wanted the caretakers to be able to be able to check on the client’s medication times and if they took them on the house computer in the house. This was one of the main talking points when talking to the client, so the priority level of this would be 0 since part of their specifications included the website implementation.

### Resident and Caretaker Accounts

While its nice to have the timers for the residents the caretakers can’t tell if the medication has been taken or not so the creation of caretaker and resident accounts will allow for different permissions between users. The client asked for this since they wanted an easy way for the caretaker to see if the medication was being taken by the resident. The creation of this feature is priority 0 since allowing the caretaker of the house to see if the residents have taken their medication is something that was talked about a lot with the client.

### Resident Surveys

Another tool that will help the caretakers of the house is after taking medicine periodically a medication survey will come up to ask the resident if the medication is working well and how they like the medication. The client wants these surveys so that they can make sure that the medications that the residents are taking are not negatively impacting them or that maybe they need some new medication that is either stronger or weaker. This seems like it would be a priority 0 program in the application, but the client specified that this was something that we can do if we get around to it, so I would place it at 2.

## Non-Functional Requirements

List the non-functional requirements in this section. Non-functional requirements define system properties (e.g. reliability, response time and storage requirements, etc.) and constraints (e.g. I/O device capability, system representations, etc.)[[1]](#footnote-1)   
  
Generally, non-functional requirements take the form "system shall be <requirement>."

Process requirements may also be listed here (e.g. specifying a particular programming language or development method.) This will include any general testing plans, but there is a later assignment that will go into much greater depth about testing the product.

Please refer to Section 4.4.7 in the book “Object-Oriented Software Engineering” for example categories of non-functional requirements.

You may use the following template for non-functional requirements (Please remove the color formatting in your final document):

### Must be able to support around 10-15 users

The client wants it so that it is possible to have everyone in the house on the server at once so that no one isn’t reminded to take their medications, or a staff member can’t check if a resident has taken their medication.

# System Evolution

As we go on to finish the application for the client we may run into problems or may need to hang things as to help specific clients. So, as we build the application, and we make the web application we may need to make minor alterations for the web application alteration. On top of that adding the different user profiles may cause a problem on the firebase side of things but that will be solved with time and understanding of firebase. As for the UI, it could be changed multiple times depending on how the residents of the house react to it initial designs so constant restructure may be needed.

# Glossary

# References

1. https://en.wikipedia.org/wiki/Non-functional\_requirement [↑](#footnote-ref-1)