Authors

This document was prepared by:

R. Jude Stockstill
• Role → Team leader, full-stack developer
• Email → rjstockstill@siu.edu
• Phone → (618)-204-8500

Charles Tuider
• Role → Full-stack developer
• Email → ctuider@siu.edu
• Phone → (815)-931-0717

Krystal Welch
• Role → Full-stack developer
• Email → krystalmwelch@siu.edu
• Phone → (618)-310-4345
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1 Background

The motivation to create a Medical Leaflet System stems directly from a lack of awareness of drugs in America. This lack of awareness has resulted in many overdoses, forgotten dosage times, and unintended side effects among medicine recipients.

2 Project Objectives

The main objectives of this project are to create an Android mobile app where users can quickly research medicine, rate their experience with medicines and individual side effects, display nearby pharmacies, and create reminder groups so others can remind them of dosage times offline. In addition to this, an administrative portal will also be created to allow moderation of mobile app content.

3 Project Scope

The following features are what have been confirmed as the scope of the project:

a. Allow app users to easily research the medicines they are taking.
b. Allow app users to read about side effects they may experience with their medicine.
c. Allow app users to rate their experience with their medicines, both general (the medicine itself) and individual (specific side effects).
d. Allow creation of reminder groups where members can notify an individual app user to take their medicines.
e. Display nearby pharmacies that may stock the app user’s needed medicines.
f. Allow administrators to log into a web portal, where record changes or app moderation can be performed.

4 Project Deliverables (Expected Outputs)

The expected outputs of this project are:

Android mobile app

- Will serve as the front-end for users.
- Search for medicines, read potential side effects, rate experience with medicines, create notification groups, and find local pharmacies.

Administrative web portal

- Will function as a tool for administrators to modify records and moderate content that appears on the front-end.
5 Project Assumptions and Constraints

The success factors for the on-schedule completion of this project are dependent on certain assumptions and constraints. The following subsections describe the assumptions and constraints of this project.

5.1 Assumptions

The primary assumption for this project is that one semester will be enough time to fully implement the system.

5.2 Constraints

Drawing off of the previous assumption, the matching constraint is the amount of time we have to complete the project.

6 Team Organization

6.1 Project Protocols

The members of the Medication Leaflet System team, and our client Dr. Ahmed, are the project stakeholders. Below is a table of contact information for all stakeholders:

<table>
<thead>
<tr>
<th>Stakeholder</th>
<th>Name</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLS Team</td>
<td>R. Jude Stockstill</td>
<td>(618)-204-8500</td>
<td><a href="mailto:rjstockstill@siu.edu">rjstockstill@siu.edu</a></td>
</tr>
<tr>
<td>MLS Team</td>
<td>Charles Tuider</td>
<td>(815)-931-0717</td>
<td><a href="mailto:ctuider@siu.edu">ctuider@siu.edu</a></td>
</tr>
<tr>
<td>MLS Team</td>
<td>Krystal Welch</td>
<td>(618)-310-4345</td>
<td><a href="mailto:krystalwelch@siu.edu">krystalwelch@siu.edu</a></td>
</tr>
<tr>
<td>Client</td>
<td>Dr. Khaled Ahmed</td>
<td>N/A</td>
<td><a href="mailto:kahmed@cs.siu.edu">kahmed@cs.siu.edu</a></td>
</tr>
</tbody>
</table>

6.2 Project Governance Structure

All members of the MLS team will work on all phases of the system development. This will ensure equal participation in all layers of the stack, as well as an enhanced knowledge of the system for all team members, providing clarity through transparency.

Concerning team hierarchy, Jude will serve as the team lead. Communication will be open between all team members, and he will relay relevant information to the client and course instructor on behalf of the team.

7 Project Management Approach

Preliminary meetings with our client have led to the decision to use an agile approach to developing the Medication Leaflet System. There are several reasons
for choosing this approach, which are detailed below:

- **Quality** → A working product is developed throughout the life cycle, allowing the client to provide feedback, which in turn can be used to make adjustments to the product.
- **Transparency** → Active client involvement allows them to know how the project is going, both in terms of progress and functionality.
- **Issue resolution** → Small increments to functionality allow problems to be caught early on.
- **Predictable schedule** → Sprint estimates are provided to the client prior to each sprint, resulting in clear and concrete completion dates.

### 8 Risks Management

With every project comes some risks which can pose a threat to the intended completion of said project. The following are risks we have identified, as well as solutions to those risks:

**Scheduling**

- Every project is different, ergo problems will arise with estimating completion of features/modules.
- We will get around this by frequently meeting with our client to stay on track.

**Team Member Loss**

- Unforeseen events could cause one of our team members to leave the project.
- We will mitigate this by rotating all team members through the stack.
- This will ensure that the whole team understands every layer of the project.

**Productivity**

- Software developers tend to lose track of time.
- This makes it easy to fall behind on project deadlines.
- We will stay on track by laying out a detailed schedule and sticking to it.

### 9 Detailed Work Plan

Due to time constraints this semester, no work plan has been drafted yet. Meetings with the client have primarily consisted of brainstorming and requirements analysis. We plan to construct a work plan early next semester.