

The University of Winnipeg

ACS - 2816: Health Information Systems
Project Planning Review (PPR)
MyMediPal
Group 5

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Project goal

Once the application is developed and realized into something tangible, MyMediPal will actively seek to aid users with various backgrounds who share a common need/want of tracking, managing, and optimizing medication routines. The end goal for the project as a whole is to promote good healthy habits that facilitate the timely, regular, efficient, consistent and safe intake of medication.

- **Current Goals (During PPR)**

- Designing and selecting a user-friendly interface.
- Implementing a framework that allows for accurate medication tracking.
- Actively thinking of ways we can allow users to customize their experiences within the application.
- Making sure our practices are aligned with industry standards in terms of safety and compliance.
- Prioritizing the security and privacy of all participants while collecting and utilizing raw data from surveys.
- Analyze initial feedback so we can implement changes and also view if there are any concerns.
- Incorporate safety features, so no user accidentally overdoses or misses a dose.

Scope

- After the informal presentation of the PPR, we collectively agreed to take a step back and work on our product backlog more. Our intention now is to structure it in a way where it is more than clear where we currently stand in terms of development.
- Since the wireframes were received so well we want to expand on what we presented based on feedback and implement a mockup which holds the same characteristics but is more practical within the MVP context.
- Once the mockups are finalized and selected, we will actively push development further and focus on the graphical interface.
- While designing the UI our focus would solely be on ease of use and practicality.
- Originally within our proposal, under our scope, we also listed features for education and engagement. While we still want to aim for this, we are now understanding that with limited time and resources attached to this project, our scope will have to be just as flexible and agile as our group.
- Lastly, we still need to set up and implement a functional quality assurance procedure so we can move along the development timeline without any major issues.

Initial Requirements

- **User Requirements:**

- Gather basic information to calculate the target demographic.
- Gather data to pinpoint exact needs and preferences.
- Implementing the use of surveys, interviews and focus groups to estimate expectations.

- **Functional Requirements:**

- **Medication Tracking:** The ability to log medication names, dosages, frequencies, and intake times.
- **Friendly Reminders:** Allow users to customize reminders and receive notifications for pre-scheduled medications.
- **History:** Logging previous medication consumption for further referencing and/or review.
- **Customization:** Providing the ability to customize the internal experience.
- **Safety:** Being proactive in ensuring we take measures to prevent errors such as overdoses or doses of the wrong amount/frequency.
- **Data Synchronization:** Ensure the application can function and sync information across multiple devices.

Initial Product Backlog

| PRODUCT BACKLOG | | | | | | |
|-----------------|----------------|---------------------------------------|--|----------|--------|------------|
| ID | As a... (Role) | I want to be able to... (Requirement) | So that... | Priority | Sprint | Status |
| 1 | User | Log in | I can start managing my medicine intake | MUST | 1 | DONE |
| 2 | User | View homepage | I can see a summary of today's medication | MUST | 1 | DONE |
| 3 | User | Search medicine | I can read medication details such as medication dosage | MUST | 1 | DONE |
| 4 | User | Search doctors | I can view doctor's profile and book a doctor's appointment | MUST | 1 | DONE |
| 5 | User | Add a reminder | I can be reminded when I should take my medicine daily | MUST | 1 | DONE |
| 6 | User | View my medication calendar | I can be more informed of what medication I am taking daily | MUST | 1 | DONE |
| 7 | User | Scan my medication | It will automatically add what medication and time I should take it | MUST | 1 | DONE |
| 8 | User / Visitor | View community page | I will be informed if there are news or advices in the medical community | MUST | 1 | DONE |
| 9 | User | View my profile | I can read and edit my details when needed such as emergency contacts | MUST | 1 | DONE |
| 10 | User | View my medical history | I will know what medication I have taken in the past | MUST | 1 | DONE |
| 11 | User | Choose a pharmacy | I can shop and pick up medicine easily | MUST | 2 | DONE |
| 12 | User | Place an order | I can refill my medication whenever I run out | MUST | 2 | DONE |
| 13 | User | Sign out | If I want to stop using the application | MUST | 2 | DONE |
| 14 | User | Edit an alarm | If I have a mistake, I can change it easily | MUST | 3 | TO BE DONE |
| 15 | Visitor | Create account | I will have an account to have full access of the application | MUST | 3 | TO BE DONE |
| 16 | User | Change Language | I can use that app in my desired language | SHOULD | 3 | TO BE DONE |
| 17 | User | Activate automatic medicine refill | I will not run out of medication if I forgot to order | MUST | 4 | TO BE DONE |
| 18 | User | Deactivate automatic medicine refill | I will not have any extra medicine after purchasing | MUST | 4 | TO BE DONE |
| 19 | User | View order history | I will know when and what I ordered previously | MUST | 4 | TO BE DONE |
| 20 | User | Contact health professionals | If I have a question about my medication, I can contact them | MUST | 5 | TO BE DONE |
| 21 | User | Change font size | I can properly read medication information | COULD | 5 | TO BE DONE |
| 22 | User | Change theme (Dark and light mode) | I can see details properly | COULD | 5 | TO BE DONE |

Sprint Backlog

| SPRINT BACKLOG | | | |
|--|------------------------|------------|-----------------------------------|
| SPRINT | WORK DONE | Status | Worked by |
| Sprint 1 (Jan. 14, 2024 - Jan. 27, 2024) | | | |
| 1 | Requirements gathering | Done | Allen, Oyinkonsola, Jashan, Manas |
| 1 | Create Product backlog | Done | Allen, Oyinkonsola, Jashan, Manas |
| Sprint 2 (Jan. 28, 2024 - Feb. 10, 2024) | | | |
| 2 | Create wireframes | Done | Allen, Oyinkonsola, Jashan, Manas |
| 2 | Test | To be done | Allen, Oyinkonsola, Jashan, Manas |
| 2 | Retrospect | To be done | Allen, Oyinkonsola, Jashan, Manas |

Project team setup and role assignments

Product owner - Allen Villarin

- Responsible for getting requirements from stakeholders to get a user-centric design and achieve a friendly user interface, a great user experience, and delivering a functional product to use in the health industry. The scrum master will report to the product owner what has been done and what is still in progress, an active progress report.

Scrum master - Jashan Sharma

- Responsible for checking up on team members on their assigned tasks and letting them know what other tasks are still at hand for the team to be on schedule. The scrum master ensures that all tasks will be done on every sprint to achieve an initial product to present to the stakeholders.

Lead UI/UX Designer - Oyinkonsola Akinboye

- Responsible for ensuring that the team will follow UI/UX principles to achieve a friendly user interface and a great user experience depending on the data acquired during the requirement-gathering phase. It is the lead UI/UX designer's responsibility to deliver a user-centric design which team members should need approval from the lead designer for their proposed design.

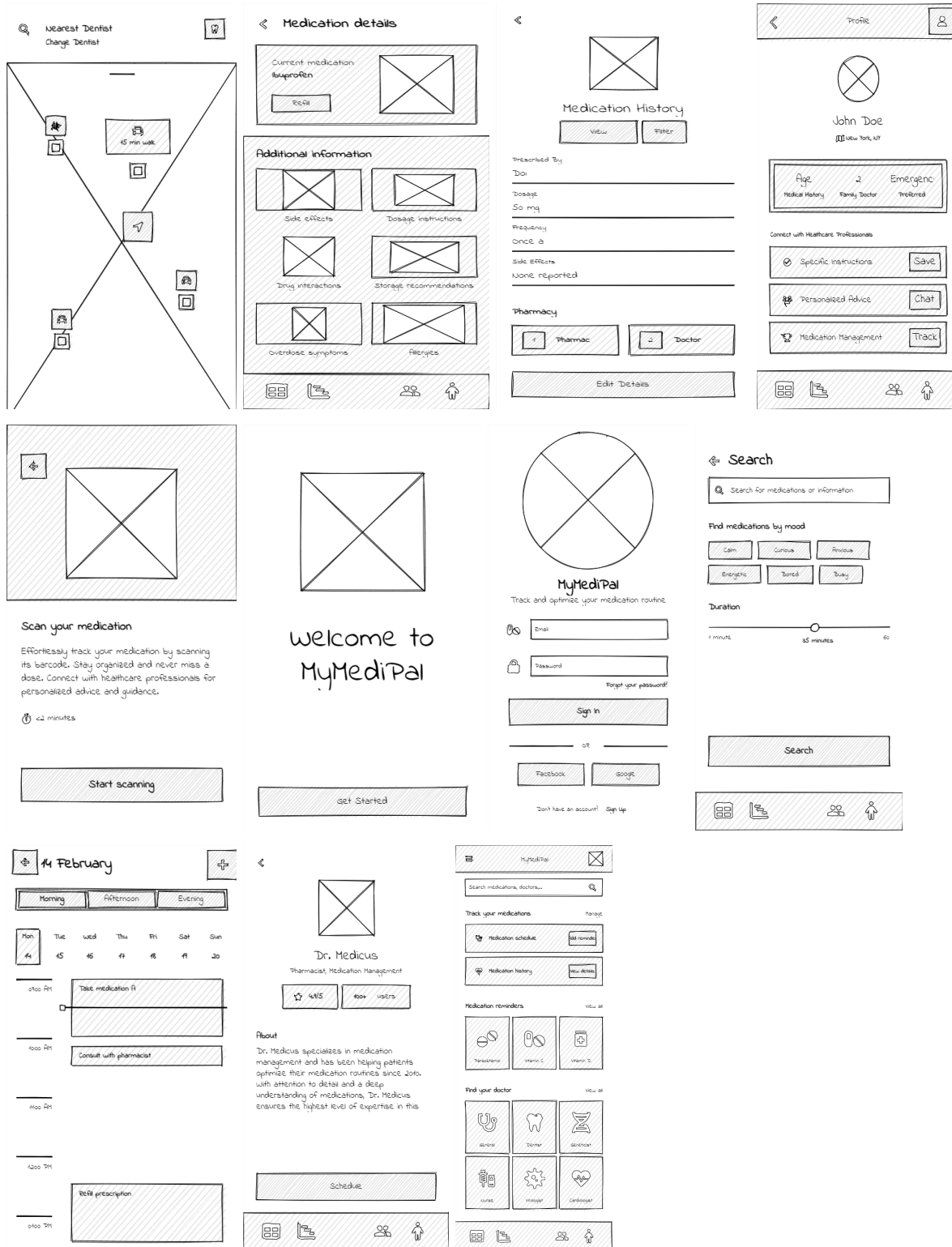
Quality Assurance - Manas Sharma

- Responsible for approving features proposed in the product backlog. Inspects that it follows regulatory and legislative standards such as protecting personal health data of the PHIA.


Work Breakdown Structure (WBS)

| Work Breakdown Structure | | | |
|--------------------------|--|------------|-----------|
| ID | Description | Duration | Resources |
| | Analysis task | | |
| 1 | Create survey questions | 3 hours | 4 people |
| 2 | Ask stakeholders to answer survey | 10 minutes | 4 people |
| 3 | Document gathered requirements from survey | 3 hours | 1 person |
| 4 | Create the product backlog | 3 hours | 4 people |
| | Design tasks | | |
| 5 | Create mockups | 30 hours | 2 people |
| 6 | Create wireframes | 30 hours | 2 people |
| 7 | Wireframe connectivity | 30 hours | 4 people |
| | Build tasks | | |
| 8 | Build interfaces | 30 hours | 4 people |
| 9 | Build main components | 30 hours | 4 people |
| 10 | Acceptance testing with stakeholders | 30 minutes | 2 people |
| 11 | Apply feedback changes | 10 hours | 4 people |
| 12 | Final acceptance testing | 30 minutes | 2 people |
| 13 | Release product | 5 hours | 4 people |

Wireframes




Survey



MyMediPal Requirement Gathering Survey

Group 5 is embarking on the development of ***MyMediPal***, a medicine intake tracker, as part of their Health Information Systems project over the next three months. This survey serves as a crucial tool to compile comprehensive requirements for designing a user-friendly interface, incorporating essential features, and ensuring an optimal user experience. We appreciate a few minutes of your time to respond to the following questions, aiding us in creating and delivering a functional and user-centric product.

allenclark0321@gmail.com [Switch account](#)

 Not shared 

*** Indicates required question**

Select any that apply to you.

- ☐ Patient
- ☐ Healthcare worker
- ☐ Regulatory body (Health Care Institution)
- ☐ Caregiver
- ☐ Other

Do you have any health issues before taking medicine/s?

☐ Yes

https://docs.google.com/forms/d/e/1FAIpQLSeK8-9Y5aETwYLxF7FFAjVghvIDspPMDkQhedhkRg6AJIELg/viewform?usp=sf_link