MariGold

Team 5 - Sprint 2 Planning Document

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Sprint Overview
In this sprint we will be adding core functionality to our iOS app and backend. We plan on fully fleshing out adding, editing and viewing a users medications and account. Furthermore we will be implementing the drug confliction part of our app. Finally we are creating quality of life improvements for the user such as being able to input allergies to their account and receiving notifications for their medications.

Scrum Master: Will Borland

Meeting Plan: Mondays, Wednesdays and Fridays at 11:30pm.

Risks and Challenges
This is the first time we will be communicating with an outside API to get information for our app. We see challenges in retrieving the pertinent and correct data from these APIs. Another challenge will be creating our own email notification system to remind the users to take a medication. We are exploring uncharted territory for everyone in our group.

Current Sprint Detail

1. As a user, I would like to edit my account information after I register.
2. As a user, I would like to be able to see detailed information about a particular medication.
3. As a user, I would like to be able to add a temporary medication to my medication list.
4. As a user, I would like to edit the information about a specific medication.
5. As a user, I would like to be notified with a local notification of when to take a medication from the medication list.
6. As a user, I would like to be able to decide on what type of reminders I receive.
7. As a user, I would like to see when to take my medications in a calendar view.
8. As a user, I would like to be informed when my medications conflict.
9. As a user, I would like to add medication allergies to my account.

User Story #1
As a user, I would like to edit my account information after I register.

#	Description	Part	Time	Owner
1	Create detailed account view.	App	2 hrs	Pravin
2	Modify register page to include detailed items.	App	3 hrs	Devin
3	Modify users database table.	Server	1 hr	Will
4	Modify backend account endpoint.	Server	1 hr	Will
5	Add unit tests for updating account information.	Server	1 hr	Will

Acceptance Criteria:
- Given that the backend endpoint works, the users data should see visible change in the database.
- Given that the account edit button works, the user should be able to see a new view containing their account information in editable text fields.
- Given that backend call works, after confirming account info changes the user should see the new changes on the account view.

User Story # 2
As a user, I would like to be able to see detailed information about a particular medication.

#	Description	Part	Time	Owner
1	Create medication class that is stored in Core Data.	App	3 hrs	Devin
2	Implement detailed medication addition view.	App	8 hrs	Devin
3	Implement individual detailed medication view.	App	4 hrs	Devin
4	Implement detailed medications in database.	Server	2 hrs	Andrew
5	Implement detailed medications to mediciaton request endpoint.	Server	2 hrs	Andrew
6	Implement run out/end date on backend.	Server	2 hrs	Andrew
7	Create backend unit tests for run out/end date.	Server	1 hr	Will
8	Implement detailed medication unit tests.	Server	1 hr	Will
9	Implement detailed medication UI tests.	App	2 hrs	Pravin

Acceptance Criteria:
- Given that the medication objects get stored in CoreData, medications should persist in the medication list when internet connection is not available.
- Given that the medication detailed view is properly hooked up to the medication list, tapping on a medication should bring up the detailed view about that medication.
- Given that the medication detailed addition view is implemented correctly, the user should be able to fill out more information like dosage or quantity, and this should be reflected in the medication detail view.
- Given that the backend was modified to accommodate these changes, the new medication fields should be visible in the database.

User Story # 3

As a user, I would like to be able to add a temporary medication to my medication list.

#	Description	Part	Time	Owner
1	Implement temporary medication field in addition view.	App	1 hr	Devin
2	Implement indicator in table view that medication is temporary.	App	1 hr	Devin
3	Implement change to red text when temporary medication has run out.	App	1 hr	Devin
4	Implement temporary database fields on backend.	Server	1 hr	Will
5	Implement temporary medication UI tests.	App	2 hrs	Devin
6	Implement temporary medication unit tests.	Server	1 hr	Andrew

Acceptance Criteria:
- Given that the medication addition view was modified, the user should be able to select "temporary medication" when adding a new medication
- Given that user marks a medication as being temporary, the backend database should flag the medication as being temporary when being stored in the database.
- Given that a retrieved medication is marked temporary, it should be visibly marked as being a temporary medication.

User Story # 4
As a user, I would like to edit the information about a specific medication.

#	Description	Part	Time	Owner
1	Implement detailed edit medication view.	App	4 hrs	Devin
2	Add update medication route on backend.	Server	4 hrs	Pravin
3	Add update medication unit tests.	Server	1 hr	Pravin
4	Add edit medication UI tests.	Server	1 hr	Devin
5	Add edit notification module in backend.	Server	5 hrs	Will

Acceptance Criteria:
- Given that the backend route for modifying medications works, the database should be updated when the medication is modified.
- Given that the detailed edit mediciation view works, the modified information should appear in the detailed medication view.
- Given that the detailed edit mediciation view works, when the user refreshes their list of medications, any modifications made should persist.

User Story # 5
As a user, I would like to be notified with a local notification of when to take a medication from the medication list.

#	Description	Part	Time	Owner
1	Implement iOS local notification system.	App	5 hrs	Pravin
2	Create UI tests for Notification.	App	1 hr	Pravin
3	Add backend fields for tracking when to take medications.	Server	3 hrs	Will
4	Delete local notifications upon logout.	App	1 hr	Pravin
5	Recreate notifications on login (if exist on account).	App	2 hrs	Pravin

Acceptance Criteria:
- Given that the iOS local notification system works, the user should see a notification appear in the notification center when it is time to take their medication.
- GIven that the backend fields are properly added, if a user adds a medication that is taken at certain times, these times should be stored in the database.
- Given that the backend routes for adding medicines works, if a user is scheduled to take a medication, the database will store the dates and times that a user takes a medication.

User Story # 6
As a user, I would like to be able to decide on what type of reminders I receive.

#	Description	Part	Time	Owner
1	Implement interface to set notifications for medications in medication addition view	App	3 hrs	Pravin
2	Implement interface to set notifications for medications in medication edit view	App	2 hrs	Pravin
3	Create notification database table.	Server	2 hrs	Will
4	Create automatic notification scheduler in backend	Server	4 hrs	Will
5	Create automatic mailer for notifications.	Server	4 hrs	Will
6	Create manual tests for email notification system.	Server	1 hr	Will

Acceptance Criteria:
- Given that the backend scheduler and mailer works, the user should receive an email reminder at the requested time.
- Given that the notification type option works a user should receive an email when opted into email notification and local notifications when opted into local notifications.
- Given that the local notifications and the backend scheduler work, if opted into both email and local notifications, the user should receive both an email and a local notification when it is time to take their medication.

User Story #7
As a user, I would like to see when to take my medications in a calendar view.

#	Description	Part	Time	Owner
1	Implement calendar view in dashboard.	App	5 hrs	Pravin
2	Implement frontend function to go through all medications and populate the calendar view.	App	3 hrs	Pravin
3	Implement touch to view on specific medications.	App	2 hrs	Pravin
4	Implement backend route to populate calendar data on dashboard.	Server	2 hrs	Andrew

Acceptance Criteria:
- Given the swipe gesture is properly implemented, users should be able to swipe on the calendar day view to see the next or previous day's medications.
- Given that the backend data retrieval is correct, the app's calendar should be populated correctly.
- Given that the calendar view works, tapping on a medication on the calendar view will take the user to the detailed view for that medication.

User Story #8
As a user, I would like to be informed when my medications conflict.

#	Description	Part	Time	Owner
1	Create backend module that calls the openFDA API and receives data.	Server	4 hrs	Will
2	Create backend module that parses information from the openFDA API.	Server	4 hrs	Will
3	Create backend module that calls the confliction API to check if medications conflict.	Server	4 hrs	Andrew
4	Create backend module that parses information from medication confliction API.	Server	4 hrs	Andrew
5	Create module that checks for medication conflictions.	Server	4 hrs	Andrew
6	Create unit tests for medication conflicts.	Server	1 hr	Andrew
7	Create alert for conflicting medications upon detection.	App	1 hr	Devin
8	Create detailed medication confliction view.	App	2 hrs	Devin
9	Create UI tests for medication confliction view and confliction alert.	App	2 hrs	Andrew

Acceptance Criteria:
- If the backend modules and frontend work correctly, the user will be notified if their medications conflict upon adding it.
- If the backend modules work correctly, the user will not be notified if the medication does not conflict upon adding it.
- If the backend data retrieval is correct, the detailed information view will list conflicting medications.

User Story #9
As a user, I would like to add medication allergies to my account.

#	Description	Part	Time	Owner
1	Modify register page to include allergies.	App	2 hrs	Andrew
2	Implement allergies text box in account view.	App	2 hrs	Andrew
3	Create account allergy field in backend.	Server	1 hr	Andrew
4	Modify account edit view.	App	2 hrs	Andrew

Acceptance Criteria:
- If account creation in backend works correctly, the user should be able to see their allergies in their account page.
- If account creation in backend works correctly, then the database should be updated with the users allergies.
- If the update profile endpoint works, if the user edits their allergies, the users allergies should be changed.

Remaining Backlog (19 / 32 Stories Complete)

1. ~~As a user, I would like to be able to register for a MariGold account.~~
2. ~~As a user, I would like to be able to login my MariGold account.~~
3. ~~As a user, I would like to be able to logout of my MariGold account~~
4. ~~As a user, I would like to be able to delete my MariGold account.~~
5. ~~As a user, I would like to be able to reset my password for my MariGold account.~~
6. ~~As a user, I would like my information to be secure.~~
7. ~~As a user, I would like to be able to manually add a medication to my medication list.~~
8. As a user, I would like to have MariGold scan in my medication via a photo of its label to my medication list.
9. ~~As a user, I would like to edit my account information after I register.~~
10. ~~As a user, I would like to see an overview of all of the medications I am taking.~~
11. ~~As a user, I would like to be able to see detailed information about a particular medication.~~
12. ~~As a user, I would like to be able to add a temporary medication to my medication list.~~
13. ~~As a user, I would like to be able to edit my medication list.~~
14. ~~As a user, I would like to edit the information about a specific medication.~~
15. ~~As a user, I would like to be notified with a local notification when to take a medication from the medication list.~~
16. ~~As a user, I would like to be able to decide on what type of reminders I receive.~~
17. ~~As a user, I would like to see when to take my medications in a calendar view.~~
18. ~~As a user, I would like to be informed when my medications conflict.~~
19. As a user, I would like to be able to lookup information about medications.
20. ~~As a user, I would like to add medication allergies to my account.~~
21. As a user, I would like to be notified when my allergies conflict with a certain medication.
22. ~~As a user, I would like to select what sports leagues I participate in.~~
23. As a user, I would like to be notified if the medication I'm taking are under the pretenses of the athletic organization I am a part of.

24. As a user, if I'm experiencing a medical symptom, I would like to have MariGold inform me if that symptom could be a side effect of one of my medications.
25. As a user, if I'm experiencing a medical symptom, I'd like to look up over-the-counter or prescription medications that could potentially help me.
26. As a user, I would like to be able to register my pharmacy so that I can have easy access to their information, for tasks like refilling.
27. As a user, I would like to have refill reminders.
28. If time allows, as a user, I would like to manage my account on a web browser.
29. If time allows, as a user, I would like to see my medications on a web browser.
30. If time allows, as a user, I would like to use Marigold from a wearable device.
31. If time allows, as a user, I would like to sign into Marigold with Google and Facebook.
32. If time allows, as a user, I would like to unlock the Marigold app with touch ID.