MariGold

Team 5 - Sprint 3 Planning Document

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Sprint Overview
In this sprint we will be defining new features for our app, improving app design and creating a web interface for our backend. We will be adding the ability for users to see if a medication conflicts with their allergies or sports organization. We will also be implementing a search function that allows users to search for a symptom and get a list of drugs that could alleviate that symptome. Furthermore we will be implementing a basic web interface for the user to interact with. Finally we will be implementing small UI changes that will improve the overall user experience.

Scrum Master: Will Borland

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

Risks and Challenges
In this sprint we are working with things that some of us have not used before. We expect challenges in implementing the web app portion of the spring because many of us have not working with that in the past. While we are now familiar with swift and iOS development, implementing touchID into our current system could present challenges for us.

Current Sprint Detail

1. As a user, I would like to have MariGold scan in my medication via a photo of its label to my medication list.
2. As a user, I would like to be notified when my allergies conflict with a certain medication.
3. 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.
4. As a user, if I'm experiencing a medical symptom, I would like to have MariGold show me if that symptom could be a side effect of one of my medications.
5. 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.
6. 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.
7. As a user, I would like to have refill reminders.
8. As a user, I would like to have a clean and refined user interface.
9. As a user, I would like to see label information about my medication.
10. As a user, I would like to unlock the Marigold app with touch ID.

11. As a user, I would like to register, login and view basic information for Marigold from a web browser.
12. As a user, I would like to see my medications and account on a web browser.
13. As a user, I would like to see detailed medication information in a web browser.

User Story #1
As a user, I would like to have MariGold scan in my medication via a photo of its label to my medication list.

#	Description	Part	Time	Owner
1	Implement Module to talk to parsing API.	Server	4 hrs	Will
2	Implement endpoint for picture lookup.	Server	2 hr	Will
3	Create new lookup page with camera option.	App	5 hrs	Devin
4	Create front end tests for picture lookup.	App	1 hr	Devin
5	Create backend unit tests for picture lookup.	Server	1 hr	Will

Acceptance Criteria:
- Given the frontend sends the image successfully, the server should receive the sent image.
- Given the backend lookup works properly, it will return the closest found search term.
- Given that the backend returns properly, the user should be prompted with a list of medications.

User Story # 2
As a user, I would like to be notified when my allergies conflict with a certain medication.

#	Description	Part	Time	Owner
1	Create module that checks for allergy conflictions.	Server	4 hrs	Andrew
2	Create unit tests for medication and allergy conflicts.	Server	1 hr	Andrew
3	Create possible allergy conflictions in medication addition view.	App	1 hr	Pravin
4	Edit detailed medication view and conflict detail view.	App	2 hrs	Devin
5	Create UI allergy conflict tests.	App	1 hr	Pravin

Acceptance Criteria:
- Given that the allergie confliction checker works properly, the medication addition view will show the user that this drug conflicts with one of their allergies.
- Given the that the allergy conflicts are saved correctly in CoreData, a user should be able to view them in medication detail view.
- Given that the backend route works, the endpoint should correctly return a list of medications which conflict with a user's allergies in JSON format.

User Story # 3
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.

#	Description	Part	Time	Owner
1	Create database table to store drug information and populate with banned substances for each league.	Server	1 hr	Will
2	Create module to check if a medication is under the pretenses of an athletic organization.	Server	3 hrs	Will
3	Create unit tests for athletic conflictions.	Server	1 hr	Will
4	Implement field in medication addition listing all leagues drug is banned in.	App	1 hr	Pravin
5	Implement field in medication details listing all leagues current drug is banned in.	App	1 hr	Devin

Acceptance Criteria:
- Given that the backend endpoint works, the medication addition view should show the user that the drug is under the pretenses of an athletic organization.
- Given that the leagues banned in info is saved in CoreData correctly, the user should be able to view the information in medication detail view.
- Given that the backend route works, the endpoint should correctly send a list of medications which conflict with a user's leagues in JSON format.

User Story # 4
As a user, if I'm experiencing a medical symptom, I would like to have MariGold show me if that symptom could be a side effect of one of my medications.

#	Description	Part	Time	Owner
1	Create module that consolidates side effects for a user.	Server	2 hrs	Will
2	Modify medication table and medication list endpoint to include drug side effects.	Server	2 hrs	Will
3	Implement new possible side effects field in medication detail view.	App	3 hrs	Devin
4	Create CoreData entry for possible side effects.	App	2 hrs	Devin
5	Create possible current side effects view in dashboard tab.	App	4 hrs	Andrew
6	Create Unit Tests for side effects module.	Server	1 hr	Will
7	Create UI test for possible side effects in dashboard.	App	1 hr	Andrew

Acceptance Criteria:
- Given that the backend endpoint works, the user will be able to view a list of all medications from the dashboard.
- Given that the dashboard works, there should be a button that takes the user to a populated view of all possible side effects.
- Given that the medication detail view and CoreData works correctly, the user should see a new field detailing possible side effects of a particular medication.

User Story # 5
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.

#	Description	Part	Time	Owner
1	Implement new search lookup view.	App	3 hrs	Pravin
2	Implement search endpoint.	Server	4 hrs	Andrew
3	Implement medication lookup details view	App	3 hrs	Pravin
4	Create Unit Tests for search endpoint.	Server	1 hr	Andrew
5	Create UI test for search lookup.	App	1 hr	Pravin

Acceptance Criteria:
- Given that the search endpoint works, the server should respond with potentially helpful medications JSON.
- Given that the search lookup view works, a list of medications will be displayed when searched for.
- Given that the medication lookup detail view works, the user should see a table of information about the selected medication.

User Story # 6
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.

#	Description	Part	Time	Owner
1	Implement register pharmacy endpoint.	Server	2 hrs	Will
2	Create register pharmacy view in account tab.	App	3 hrs	Devin
3	Implement Map view of local pharmacies.	App	4 hrs	Devin
4	Create UI test for registering pharmacy to account	App	1 hr	Devin
5	Create unit tests for pharmacy endpoint.	Server	1 hr	Will

Acceptance Criteria:
- Given that the backend endpoint works correctly, the user's pharmacy information should be added to the database.
- Given that the map view is implemented correctly, a view of local area pharmacies will display.
- Given that the account view works correctly, the users pharmacy information should be displayed.

User Story #7
As a user, I would like to have refill reminders.

#	Description	Part	Time	Owner
1	Add element to add medication to allow user to choose if they want a refill reminder.	App	1 hr	Pravin
2	Create notification a day before the medication end date.	App	2 hrs	Pravin
3	On medication detailed view allow user to indicate they have refilled a medication.	App	2 hrs	Devin
4	Create backend endpoint to handle refills.	Server	2 hrs	Andrew
5	Create refill reminder mailer.	Server	3 hrs	Will

Acceptance Criteria:
- Given that the backend endpoint works, when a request is sent to the refill endpoint, the run out date should be properly recomputed.
- Given that the medication detail view works, the button for refilling medications should only appear when the run out date has passed.
- Given that the notifications work, when it is a day before a medication runs out, the user should be notified.

User Story #8
As a user, I would like to have a clean and refined user interface.

#	Description	Part	Time	Owner
1	Add new informational elements to Dashboard.	App	1 hr	Devin
2	Change blue default elements to Marigold Orange.	App	1 hr	Devin
3	Create new onboarding process to replace register and login.	App	4 hrs	Pravin
4	Modify and standardize loading spinners.	App	1 hr	Andrew
5	Add and create navbar images.	App	1 hr	Devin
6	Modify account view to be more flexible on different devices.	App	2 hrs	Pravin

Acceptance Criteria:
- Given that the dashboard has information properly added, the user should when it is time to take their next medication.
- Given that the spinners are modified correctly, the user should see a nonintrusive spinner when loading activity is occuring.
- Given that the account view is modified correctly, the account page should not have overlapping information on iPhone 5s.
- Given that the navbar images are properly added, the user should not see a blank space where the tab bar icons are, but instead see images that correspond to the relevant view linked to the tab bar.

User Story #9
As a user, I would like to see label information about my medication.

#	Description	Part	Time	Owner
1	Implement endpoint to return label information about a specific medication.	Server	2 hrs	Andrew
2	Create Unit Tests for label information endpoint.	Server	1 hr	Andrew
3	Create new label info field in CoreData and integrate into current code.	App	1 hr	Devin
4	Create new label info field in detailed medication view and create new label information view.	App	3 hrs	Pravin
5	Create UI Tests for label information.	App	1 hr	Pravin

Acceptance Criteria:
- Given that the detailed medication view works, the user should be able to go to the label information view.
- Given that the label information view works, all relevant FDA information should be shown to the user.
- Given that the backend endpoint works, the server should send available label to the app.

User Story #10
As a user, I would like to unlock the Marigold app with touch ID.

#	Description	Part	Time	Owner
1	Securely store credentials in TouchID keychain upon login.	App	3 hrs	Andrew
2	Create autoprompt for TouchID on login screen	App	2 hrs	Andrew
3	Create module to perform TouchID check.	App	2 hrs	Devin
4	Refresh TouchID credentials upon using a different login account.	App	1 hr	Andrew
5	Create UI tests for TouchID login.	App	1 hr	Pravin

Acceptance Criteria:
- If the credential storing mechanism works properly, the user defaults should not leak information about a user's credentials.
- If the TouchID system works properly, only the phone's owner should be able to access their account via the TouchID login.
- If the TouchID system works properly, if the authentication fails, a manual login should still be possible.

User Story #11
As a user, I would like to register, login and view basic information for Marigold from a web browser.

#	Description	Part	Time	Owner
1	Create login web page.	Server	3 hrs	Will
2	Create register web page.	Server	3 hrs	Will
3	Create session token system.	Server	2 hrs	Andrew
4	Create unit tests for login and register web pages.	Server	1 hrs	Will

Acceptance Criteria:
- Given that the login web page works, the user will be able to login in a web browser.
- Given that the register web page works, the user will be able to register for an account in a web browser.
- Given that the login and register web pages work, the user will be directed to their dashboard upon successful login or registration.

User Story #12
As a user, I would like to see my medications and account on a web browser.

#	Description	Part	Time	Owner
1	Create medications for user web page.	Server	2 hrs	Will
2	Create account view web page.	Server	2 hrs	Andrew
3	Create backend endpoint for populating view medications for user web page.	Server	1 hr	Will
4	Create backend endpoint for populating account view web page.	Server	1 hr	Andrew
5	Create backend tests for medications and account web pages.	Server	1 hr	Pravin

Acceptance Criteria:
- Given that the backend endpoints work, if the current user is not logged in, they should not be allowed to view any account or medical information.
- Given that the backend endpoint for the account view web page works, if the current is user logged in, they should see information about their account that matches the information given to the app.
- Given that the backend endpoint for view medications works, the user should see a list of medications that matches the list given to the app.
- Given that the view medications web page works, if the user selects a medication, they should be taken to the detailed medication view web page.

User Story #13
As a user, I would like to see detailed medication information in a web browser.

#	Description	Part	Time	Owner
1	Create detailed medication web page.	Server	2 hrs	Pravin
2	Create endpoint to populate detailed medications for a user.	Server	2 hrs	Pravin
3	Create unit tests for populate detailed medications endpoint.	Server	1 hr	Will

Acceptance Criteria:
- Given that the backend endpoint for the detailed medication page works, the page should be filled in with information relevant to the currently selected medication.
- Given that the detailed medication web page works, the user should be able to view the same information that would be given to the mobile app.
- Given that a non-authenticated user tries to access this page, they should be redirected to the login page with an error.

Remaining Backlog (33 / 35 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 show 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. ~~As a user, I would like to have a clean and refined user interface.~~
29. ~~As a user, I would like to see label information about my medication.~~
30. ~~If time allows, as a user, I would like to register, login and view account information for my Marigold account on a web browser.~~
31. ~~If time allows, as a user, I would like to see my medications and account information on a web browser.~~
32. ~~If time allows, as a user, I would like to see detailed medication information in a web browser.~~
33. If time allows, as a user, I would like to use Marigold from a wearable device.
34. If time allows, as a user, I would like to sign into Marigold with Google and Facebook.
35. ~~If time allows, as a user, I would like to unlock the Marigold app with touch ID.~~