Team 3, Kitchen Support

Sprint 1 Planning Document

Garrick Buckley, Mason Herhusky, Jack Horton, Garrett Lewis, Graham Park, Darrell Shi

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Sprint Overview

Overview: The 3 main goals of this sprint include:

1. Getting acquainted with Xamarin

2. Setting up the main screens of our app

3. Setting up our databases and connecting them with the app

Scrum Master: Garrick Buckley▯

Scrum Meeting Time: 12:30PM MWF

Risks/Challenges: Figuring out what can and cannot be accomplished using the Xamarin platform. Figuring out exactly how to use Yummly's API to get recipes, and figuring out how to use an API to turn our scanned barcodes into ingredients.

Current Sprint Detail☐

User Story: As a developer, I will develop an application using the Xamarin platform.

Subtask + Description	Estimated Time in Hours	Team Member Responsible
Learn and understand how to utilize the Xamarin platform. Since this is everyone's first time using Xamarin, they will spend the first week learning the platform so that they can more efficiently use it in the later sprints and tasks.	10/member	Graham Park Garrett Lewis Mason Herhusky Darrell Shi
TOTAL: 40 hrs		

Acceptance Criteria: When we each have finished the necessary tutorials and feel comfortable starting development on our application.

User Story: As a developer, I would like to set up the web platform.

Subtask Description	Estimated Time in Hours	Team Member Responsible
Set up web host Set up web host, including FTP/git remote (so we can get files there), install all of the necessary server tools (nginx, node), set up SSL for HTTPS, and set up ssh. Make sure everything is as secure and industry-standard as possible.	3	Garrick Buckley

Set up database	4	Jack Horton
Figure out where our database goes, and set it up there. Make sure the security is tight, and that only the IP of our server can access it. Also make sure we have proper database users (not using the root account with unlimited permissions).		
Set up web front-end	6	Jack Horton
Figure out where the front-end will be served, and serve it there. Setup the project skeleton. Set up build process, and figure out how static files will be served.		
TOTAL: 13 hrs		

Acceptance Criteria: For this task will be considered completed when we have all necessary elements set up to move forward with building out our web interface.

User Story: As a user, I want to create an account and be able to login.

Subtask Description	Estimated Time in Hours	Team Member Responsible
Set up database to store users	1	Jack Horton
Setup PostgreSQL for the user.		
Create an interface for logging in on web application.	5	Graham Park
Allow the user to login or register using the following:		

- Google account - Facebook account - Twitter (?) - Kitchen.Support account		
Create an interface for logging in through the Xamarin applications. Allow the user to login or register using the following: - Google account - Facebook account - Twitter (?) - Kitchen.Support account	4	Darrell Shi
API call to register an account. In order to register a user we must take their email address and send them an email to authenticate that the email address is linked to that user. That email will have a link to our website containing a special token that will signify that the authentication is complete. We will have to hash the user's password and securely store in our database.	5	Jack Horton
API call to authenticate a user. In the API we must be able to take a user's password, hash it, and compare it to the password we have stored in the database. If those match, then we return the user's authentication ID, which confirms that the user has been successfully logged in. The user should	5	Garrick Buckley

include that authentication ID in all later requests so that we can confirm that the user is registered, and so we know what user is making the calls.		
Design the UI on Xamarin for creating an account and logging in. We need this process to be very simple. Upon the user registering, we will ask them to confirm that email address by sending them an email, but we shouldn't restrict them from interacting with the site before they have confirmed that. We should simply not allow them to insert items into their "pantry" until they have confirmed their email.	1	Garrett Lewis
Design the UI on the web application for creating an account and logging in. We need this process to be very simple. Upon the user registering, we will ask them to confirm that email address by sending them an email, but we shouldn't restrict them from interacting with the site before they have confirmed that. We should simply not allow them to insert items into their "pantry" until they have confirmed their email.	1	Garrick Buckley

Test the Xamarin application for creating/logging into an account Make sure that creating an account and logging in works on mobile.	3	Mason Herhusky
Test Web application for creating/logging into an account. Make sure that creating an account and logging in works on Web.	3	Garrett Lewis
Test the API for logging in/registering an account. Make sure that the logging in API calls return the correct authorization ID. Same with registering for an account, make sure that you are able to login using the same password after registering.	3	Graham Park
TOTAL: 31 hrs		

Acceptance Criteria: This task will be considered complete when a user can successfully create an account and log in to our service from all of the supported platforms.

User Story: As a user, I want to be able to favorite the recipes that I like.

Subtask Description	Estimated Time in Hours	Team Member Responsible
Create database to store favorites	2	Jack Horton

We need to be able to store a recipe and relate it to the user.		
Add UI element to favorite item on Xamarin Have the ability to favorite/unfavorite recipes.	1	Darrell Shi
Add UI element to favorite item on the web app. Have the ability to favorite/unfavorite recipes.	1	Jack Horton
API call to add/remove favorited recipes. We should be able to add and remove a favorited recipe for a user, and properly mark a recipe as "favorited" when it is returned in any kind of query, be it a search or a recipe page view.	3	Garrick Buckley
Design UI for favoriting recipes on Xamarin. We want users to be able to intuitively favorite recipes on our application. In order to do this we have to make sure that the icons we display, and the location of them make sense to our users.	1	Darrell Shi
Design UI for favoriting recipes on Web	1	Darrell Shi

Subtask Description	Estimated Time in Hours	Team Member Responsible
Test the 'favorite' function on the Xamarin app. Ensure that the favorite button functions correctly on different screen sizes and will not fail under corner cases.	2	Darrell Shi
Test the 'favorite' function on the Web app Ensure that the favorite button functions correctly on different screen sizes and will not fail under corner cases.	2	Graham Park
Test the API for favoriting recipes. Make sure that the API can favorite and unfavorite recipes. Also the recipe GET calls should return whether or not the user has favorited the recipe that was returned	3	Graham Park
TOTAL: 16 hrs		

Acceptance Criteria: For this task to be considered complete, a user must be able to favorite a recipe that they've seen.

User Story: As a user I would like to be able to recover my account via email if I forget my password.

Subtask Description	Estimated Time in Hours	Team Member Responsible

Create 'forgot password' interface for the web application. The button should open an interface that asks for the users email/phone number. After the submit their email/number, the form should disappear, and it should be replaced with the text	3	Jack Horton
Create 'forgot password' interface on the xamarin app. The button should open an interface that asks for the users email/phone number. After the submit their email, the form should disappear, and it should be replaced with the text	3	Mason Herhusky
API call to send an email to a user who forgot their password. Email should contain a link that has a unique token in it	6	Jack Horton
API call to set a new password. Usable by both mobile and web. Make sure that this is as secure as possible. Investigate multiple ways to lock this process down.	4	Garrick Buckley
Database table that stores password reset tokens.	1	Garrick Buckley

The token should have an expiration time of 24 hours, so after 24 hours the token would be invalid.		
Some way to remove expired password reset tokens from the database after they expire. Perhaps a cronjob? Or we check every time we send out an email?	2	Garrick Buckley
Web application page for password reset. The URL should look something like this: http://kitchen.support/forgot-password?token={token}	4	Garrick Buckley
API call to send a text to people who forgot their password. For users on mobile they should be able to reset their password without interacting with the website. We will text them a short code that they will then enter on the application. This will allow them to move onto the password reset.	4	Garrick Buckley
UI design on Xamarin for recovering password. We need the entire password recovery process to be very smooth and usable. The "forgot password" button should be	1	Mason Herhusky

clearly displayed on the login page. It should redirect to a page for the user to input their email address or their phone number. Upon filling that field out, we will email/text the information to the provided contact information.		
UI design on the web application for recovering password. We need the entire password recovery process to be very smooth and usable. The "forgot password" button should be clearly displayed on the login page. It should redirect to a page for the user to input their email address or their phone number. Upon filling that field out, we will email/text the information to the provided contact information.	1	Jack Horton
Test Xamarin for the 'forgot password' interfaces. Make sure that the forgot password flow works correctly on mobile.	3	Garrett Lewis
Test Web view for the forgot password interface Make sure that the forget password flow works correctly on web.	3	Graham Park

Subtask Description	Estimated Time in Hours	Team Member Responsible
Test API call for forgetting password and password reset. Ensure that the API calls for forgetting password sends an email to the correct email address. The message should contain the correct password reset token. Also test that the password reset API call correctly resets the password.	3	Graham Park
TOTAL: 38 hrs		

Acceptance Criteria: This will be completed when the user is able to reset their password via an email associated with their account.

User Story: As a user, I want to view recipes.

Subtask Description	Estimated Time in Hours	Team Member Responsible
API call to get recipes. We need to add an API call to get a recipe and return all related information in JSON.	4	Jack Horton
Determine recipe caching strategy. On every call to Yummly, determine a way to cache the data returned so that we can retrieve it and relate other data to it. Then, on subsequent calls, query both our database as well as Yummy.	5	Jack Horton

UI on Xamarin to display recipes. There should be an interface to display all information relating to recipes.	6	Garrett Lewis
Web UI to view recipes. The web application should be able to display the recipe being requested, the ingredients required, show which ingredients the user has to make it, the prep time, and the instructions (if available).	5	Garrick Buckley
Design the UI on Web for viewing recipes. We will have to plan out what the web application UI will look like for maximum usability and utility.	1	Jack Horton
Design the UI on Xamarin for viewing recipes. We should display all relevant information for a given recipe in the best way we can for each device. The user shouldn't have to navigate through a plethora of menus to access the information they need.	1	Darrell Shi
Test Xamarin recipe views. Ensure that the recipe views are displayed correctly on all types of mobile devices.	3	Mason Herhusky

Subtask Description	Estimated Time in Hours	Team Member Responsible
Test Web recipe views Ensure that the recipe views are displayed correctly on all screens at considering all corner cases.	3	Graham Park
Test API for viewing recipes. Ensure that the API call for getting recipe information returns all of the correct fields, and in the correct format.	3	Graham Park
TOTAL: 31 hrs		

Acceptance Criteria: For this to be complete, the user must be able to view recipes on all platforms.

User Story: As a user, I want to view my account.

Subtask Description	Estimated Time in Hours	Team Member Responsible
API call to get account. We need to add an API call to get an account and return all related information in JSON.	4	Jack Horton
UI on Xamarin to display account page. There should be an interface to display all information relating to recipes.	6	Garrett Lewis
Web UI to view account page.	5	Garrick Buckley

The web application should be able to display account information.		
Design the UI on Web for viewing account page. We should display all relevant information for a given account in the best way we can for each device.	1	Jack Horton
Design the UI on Xamarin for viewing account page. We should display all relevant information for a given account in the best way we can for each device.	1	Darrell Shi
Design the web application UI for viewing account page. Ensure that the account views are displayed correctly on the website.	1	Jack Horton
TOTAL: 18 hrs		

Acceptance Criteria: For this to be complete, the user must be able to view account page on all platforms, and use it to manage account information such as password.

Remaining Backlog

Functional

1. As a user I want to find recipes based on items in my kitchen.

2. As a user, I want to keep track of my current supply of grocery items.
3. As a user, I want to know the nutritional information of the food.
4. As a user, I want to be able to rate the recipes I make.
5. As a user, I want to be able to sort recipes by culinary style
6. As a user, I want to find recipes based on prep time.
7. As a user, I would like to be able to save recipes that I am interested in for later
8. As a user, I would like to be able to mark recipes as completed.
9. As a user, I would like to see suggestions of recipes close to what I have
10. As a user, I would like to view recipes I have completed.
11. As a user, I would like to plan my week in advance and see the list of ingredients I need (if time allows)
12. As a developer, I would like to be able to send messages to users (if time allows)

Non-Functional

1. As a developer, I would like to implement efficient searching and sorting algorithms to speed up recipe finding
2. As a user, I would like to have an intuitive/ stream-line interface.
3. As a user, I would like to receive recipe suggestions that are diverse
4. As a user, I would like to be able to read the recipes easily