

**Team 9 - Sprint 1 Planning Document: CS407**

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# **Table of Contents**

[**Table of Contents**](#_pzaofhbzwgfc) **3**

[**Sprint Overview**](#_n763farucsty) **5**

[Scrum Master:](#_snpnlm8pijbu) Tomasz Parzadka 5

[Scrum Meeting Schedules: MWF at 3:00 PM](#_93vbuvey8crp) 5

[Risks/Challenges: ​](#_2h2hxa27kuqq) 5

[**Current Sprint Detail**](#_u8g9mfscda1) **6**

[User Story #1:](#_6z0euferp5hk) 6

[As a developer, I would like to set up the development environment for front-end and back-end.](#_kmi71fu46eql) 6

[Acceptance Criteria:](#_mxe2pavlz8ad) 6

[User Story #2:](#_ybnpqy8sy1bc) 6

[As a user, I would like to Sign up.](#_4iicrf3apb6v) 7

[Acceptance Criteria:](#_rofym9v5fo3i) 7

[User Story #3:](#_535gdp250eh7) 8

[As a user, I would like to Login.](#_msjrqek50pjd) 8

[Acceptance Criteria:](#_1w2jkwki6o71) 8

[User Story #5:](#_77t4kpoh9gpl) 9

[As a user, I would like to be able to login with my AllergySnap account](#_sj9s2soh4lz6) 9

[Acceptance Criteria:](#_nebowm9bri7j) 9

[User Story #7:](#_88di1qjjxk5w) 9

[As a user, I would like to be able to login with Google.](#_4gjm2787ubg) 9

[Acceptance Criteria:](#_1nelaaerixws) 10

[User Story #6:](#_hcyb132srglf) 10

[As a user, I would like to be able to update my user information.](#_hevzf4k8i1gj) 10

[Acceptance Criteria:](#_yln1218o89ib) 11

[User Story #4:](#_rb7ulfuz13kj) 11

[As a user, I would like to Logout.](#_w4o7m14p9y4o) 11

[Acceptance Criteria:](#_f6i64aicp05u) 11

[User Story #9:](#_hbrp0dlenx9j) 12

[As a user, I would like to delete my account](#_350bqjf3do7f) 12

[Acceptance Criteria:](#_3hhqe395bqfc) 12

[User Story #10:](#_l2ycaqlolzjx) 13

[As a user, I would like to change my password.](#_c6xysnuj0e6e) 13

[Acceptance Criteria:](#_7j38m5kvy58s) 13

[User Story #11:](#_8i2498vr7cxj) 14

[As a user, I would like to have my own personal profile for the application](#_ayq55w2bnjf) 14

[Acceptance Criteria:](#_289ew0kcnyqa) 14

[User Story #19:](#_89rnw4x13lwy) 14

[As a developer, I would like to be able to take a picture of the ingredients section of a consumable’s package and send it Google Vision](#_llkjg1vgpckz) 14

[Acceptance Criteria:](#_84jf44l4oa4t) 14

[**Remaining Backlog (0/37 Stories Complete)**](#_ne9frc6tx6ef) **15**

# 

# **Sprint Overview**

For our first sprint, we are going to concentrate on the two different functionalities (account creation, scanning with camera) of the Android application. By the end of this sprint, a user will be able to create a unique account and log into it. Furthermore, a user should be able to use a pre-existing Facebook, Google, or Twitter account to log into our application. The other concentration we want to get started on is setting up the user-interface for scanning the product label.

#### **Scrum Master:** Tomasz Parzadka

#### **Scrum Meeting Schedules:** MWF at 3:00 PM

#### **Risks/Challenges: ​**

All members have not done much development with the Android Studio framework as well as Google Firebase. We need to get all members up to speed in order to work cohesively, so we will need to spend some time this first sprint familiarizing ourselves with our resources before effectively beginning our work. Additionally, improving the chemistry of the team should be considered as an imperative task during the first sprint.

# 

# **Current Sprint Detail**

## **User Story #1:**

#### As a developer, I would like to set up the development environment for the front-end and back-end.

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| 1 | Initialize AllergySnap Android client application | **5** | Han |
| 2 | Initialize and set up Firebase (database) | **5** | Han |
| 3 | Test multiple Android devices with AllergySnap | **5** | Han |

#### Acceptance Criteria:

* Given that Android client application development environment is set up successfully, we as developers can open and run the compatible version of android project with for further implementation.
* Given that the application opens, the UI is fit properly for all types of Android devices.
* Given that the Firebase database has been set up correctly, when a user inputs or requests information to/from the database, then the database should store the input in an accessible fashion that can be requested successfully.

## **User Story #2:**

#### As a user, I would like to Sign up for AllergySnap.

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| 1 | Implement page to create a new user | **5** | Ashwin |
| 2 | Implement ability to create a new user entry on database side | **5** | Ashwin |
| 3 | Test account creation | **5** | Ashwin |

#### Acceptance Criteria:

* Given that all of the backend development is completed successfully, when a user requests to create an account then their account should be added to the database.
* Given that all backend development is completed successfully, when the Android client requests a connection to the database then a connection should be established between the Android client and the database.
* Given that the database is fully functioning, when the Android client requests data from the database, then the database should return data in a JSON format or other easy to use format.

## **User Story #3:**

#### As a user, I would like to sign up with social media account (Google, Facebook, Twitter).

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| 1 | Implement signup authentication with Google button using Google OAuth | **4** | JaeYeon |
| 2 | Implement signup authentication with Facebook button using Facebook OAuth | **4** | JaeYeon |
| 3 | Implement signup authentication with Twitter button using Twitter OAuth | **4** | JaeYeon |
| 4 | Test signup authentication with Google, Facebook, Twitter | **4** | JaeYeon |

#### Acceptance Criteria:

* Given that the Google Account Integration is correctly implemented, when a user signs up with their google account, an AllergySnap account will be created with the user’s google account information.
* Given that the Facebook Account Integration is correctly implemented, when a user signs up with their google account, an AllergySnap account will be created with the user’s google account information.
* Given that the Twitter Account Integration is correctly implemented, when a user signs up with their google account, an AllergySnap account will be created with the user’s google account information.
* Given that an account has been created by the user, the user should be prompted to initialize their profile with relevant information.

## **User Story #4:**

#### As a user, I would like to be able to login with my AllergySnap account.

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| 1 | Create the AllergySnap login button in our signin page | **3** | Brian |
| 2 | Implement login functionality using Firebase authentication | **7** | Han |
| 3 | Testing logging in with AllergySnap account | **2** | Han |

#### Acceptance Criteria:

* Given that an account has been created by the user, the user should be prompted to initialize their profile with relevant information.
* Given that AllergySnap login button is implemented, when a user go to login page, then a user can see and click the login button
* Given that AllergySnap login is implemented, the user will be able to login using their AllergySnap account.

## **User Stories #5-7:**

#### As a user, I would like to be able to login with Social Media account.

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| 1 | Implement functionality for users to login with their Google account credentials. | **10** | Brian |
| 2 | Implement functionality for users to login with their Facebook account credentials. | **10** | Han |
| 3 | Implement functionality for users to login with Twitter account credentials. | **10** | Brian |
| 4 | Test functionality of logging in with different social media accounts | **3** | Brian |

#### Acceptance Criteria:

* Given that Google login feature is implemented, when a user click Google login button, then the user will login using their Google account.
* Given that Facebook login feature is implemented, when a user click Facebook login button, then the user login using their Facebook account.
* Given that Twitter login feature is implemented, when a user click Twitter login button, then the user login using their Twitter account.

## **User Story #8:**

#### As a user, I would like to have my own personal profile for the application.

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| 1 | Create a page that displays information about the user. | **10** | Tomasz |
| 2 | Implement functionality that will recover the signed-in users data to be displayed. | **8** | Tomasz |
| 3 | Implement button to allow the user to access their profile. | **2** | Tomasz |
| 4 | Test functionality of buttons and make sure profile information is properly displayed. | **2** | Tomasz |

#### Acceptance Criteria:

* Given that the user can login properly, the user can navigate to a profile page which will display information about them.
* Given that the user entered profile information after signing up, the information given will be saved and then displayed when they navigate to the profile page.
* Given that the user changes any profile information, the information that is saved should be displayed on the profile.

## **User Story #9:**

#### As a user, I would like to be able to update my user information.

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| 1 | Implement functionality for users to update their first/last/username | **5** | Ashwin |
| 2 | Implement functionality for users to update their password | **5** | Ashwin |
| 3 | Implement functionality for users to update their user profile photo | **5** | Ashwin |
| 4 | Create page to edit user information | **7** | Ashwin |
| 5 | Test functionality for change names, password, email address, and user profile photo. | **3** | Ashwin |

#### Acceptance Criteria:

* Given that the change first/last/username buttons and functionalities are correctly implemented, when a user requests to change their first/last/username they will be able to update their first/last/username.
* Given that the change password button and functionality is correctly implemented, when a user requests to change their password they will be able to update their password.
* Given that the change profile picture button and functionality are correctly implemented, when a user requests to change their profile picture they will be able to update their profile picture.

## **User Story #10:**

#### As a user, I would like to be able to reset my password when I forget my password.

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| 1 | Implement reset password functionality if user forgets their password. | **8** | Tomasz |
| 3 | Add a button to the login page that will allow the user to change their password if they forgot it. | **2** | Tomasz |
| 5 | Test button functionality and make sure password changes when asked to be reset. | **2** | Tomasz |

#### Acceptance Criteria:

* Given that the password reset functionality has been correctly implemented, when a user requests a password reset then he or she should receive an email at the email associated with their account that contains a link to reset their password.
* Given that the user has requested a password reset, when the user clicks the link to reset their password then it will redirect user to the Android application with a form to enter a new password.
* Given that the user has filled out the password reset form, when the user submits the form to change their password then the database should immediately update to reflect the change.

## **User Story #11:**

#### As a user, I would like to Logout.

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| 1 | Implement logout button to allow the user to logout | **2** | Tomasz |
| 2 | After user is logged out, the application should return the “no logged in user” state and restrict certain features | **1** | Tomasz |
| 3 | Test button functionality and check if logging out is successful. | **1** | Tomasz |

#### Acceptance Criteria:

* Given user persistence is implemented, the currently signed in user will be persisted across app restarts.
* Given that a user logged out, when the user tries to access certain “user logged in” information or features, their access should be denied.
* Given the user has logged in from a previously “no logged in user” state, when the user tried to access user account settings and user features, they should be given permission to as well as the information should be same to the time of the previous log out.

## **User Story #12:**

#### As a user, I would like to delete my account.

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| 1 | Implement functionality for users to delete their account | **3** | Tomasz |
| 2 | Implement a user interface to allow users to delete their account on the client-side | **1** | Tomasz |
| 3 | Test the functionality of allowing users to delete their account | **1** | Tomasz |

#### Acceptance Criteria:

* Given that the implementation of deleting a user’s account is correctly implemented, when a user deletes his or her account, then the database should be updated accordingly by deleting the instance of the user successfully.
* Given that the user interface for deleting a user’s account is correctly implemented, when a user requests to have his account deleted, then the user interface should ask the user if he or she actually wants to have his or her account deleted.
* Given that the functionality for users to delete their account is correctly implemented, when a user deletes his or her account, then all of his or her saved data and information should be deleted from the database.

## **User Story #19:**

#### As a developer, I would like to be able to take a picture of the ingredients section of a consumable’s package and send it Google Vision.

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task Description** | **Estimated Time** | **Owner** |
| 1 | Set up UI Snap page and Quick Result page | **10** | Han |
| 2 | Implement Camera system for AllergySnap | **20** | JaeYeon |
| 3 | Implement functionality for sending picture to Google Vision API | **20** | Brian |
| 4. | Testing for Camera System and HTTP Request for API | **5** | JaeYeon |

#### Acceptance Criteria:

* Given that Snap Page and Quick Result page are implemented, when user pressed Main Page Snap Button, then the UI will change from Main Page to Snap Page..
* Given that Camera system is implemented, when user pressed the Camera Snap Button, then a picture will be taken and store locally.
* Given that the functionality for sending picture to Google Vision API is implemented, when the user tries to snap a picture of the ingredient, then the app will make a HTTP Request to Google Vision API with the picture taken, so the result can be displayed in Quick Result Page.

## **Summary of Hours**

Hours for Ashwin: 40

Hours for Tomasz: 43

Hours for Han: 44

Hours for Jaeyeon: 41

Hours for Brian: 46

**Total Hours: 214**

# **Remaining Backlog (0/37 Stories Complete)**

|  |  |
| --- | --- |
| **ID** | **Function Requirement** |
| 1 | **As a developer, I would like to set up the development environment for front-end and back-end.** |
| 2 | **As a user, I would like to Sign up for AllergySnap** |
| 3 | **As a user, I would like to Sign up with social media account (Google, Facebook, Twitter)** |
| 4 | **As a user, I would like to be able to login with my AllergySnap account** |
| 5 | **As a user, I would like to be able to login with social media account (Google)** |
| 6 | **As a user, I would like to be able to login with social media account (Facebook)** |
| 7 | **As a user, I would like to be able to login with social media account (Twitter)** |
| 8 | **As a user, I would like to have my own personal profile for the application** |
| 9 | **As a user, I would like to be able to update my user information** |
| 10 | **As a user, I would like to change my password** |
| 11 | **As a user, I would like to Logout** |
| 12 | **As a user, I would like to delete my account** |
| 13 | As a user, I would like to upload an avatar/picture for my profile |
| 14 | As a user, I would like to have a settings function |
| 15 | As a user, I would like to be invite a friend through email |
| 16 | As a user, I would like to be able to store personal information such as date of birth and etc when registering |
| 17 | As a user, I would like to be able to take a picture of a barcode of a consumable and save the parsed information of that consumable |
| 18 | As a user, I would like to be able to take a picture of a QR Code of a consumable and save the parsed information of that consumable |
| 19 | **As a user, I would like to be able to take a picture of the ingredients section of a consumable package and save the parsed information of that consumable** |
| 20 | As a user, I would like to manually input medications I’m using and have them stored in my list of medications |
| 21 | As a user, I would like to input my allergy/personal limitations in order to filter potentially harmful consumables |
| 22 | As a user, I would like to see if I would have an allergic reaction/personal limitation to a certain medication |
| 23 | As a user, I would like to see if I would have an allergic reaction/personal limitation to a certain consumable |
| 24 | As a user, I would like to see if multiple medications I am taking conflict with one another |
| 25 | As a user, I would like to have a compiled list of harmful consumables based on inputted medications and allergies |
| 26 | As a user, I would like to be recommended consumables to intake based off my allergies and medications **(if time allows)** |
| 27 | As a user, I would like to be recommended medications to intake based off my allergies and medications **(if time allows)** |
| 28 | As a user, I would like to receive alerts for intaking/receiving prescribed medication or vaccines already inputted |
| 29 | As a user, I would like to have multiple profiles within one account for family/friends **(if time allows)** |
| 30 | As a user, I would like to have a terms and conditions box on how my medical information is used and will have to agree to it when creating my new account. **(if time allows)** |
| 31 | As a user, I would like to have a pollen alert, which locates where I am at, and notify me when pollen concentration is high. **(if time allows)** |

|  |  |
| --- | --- |
| **#** | **Non-Functional Requirements** |
| 1 | Application will be interesting, instinctive, and visually appealing user interface. |
| 2 | Application will be easy to use and robust. |
| 3 | Application will have pop ups if any error occurs. |
| 4 | Application will have cleanly organized and well-documented code. |
| 5 | Application will be maintainable and testable. |
| 6 | Application will store the required information safely and securely. |