# *Foodstabook*

## *Requirements Document*

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# Contents

# Introduction

## 1.1 Document Summary:

Requirements of app features are described using the User Story template, either detailed for app business features and some core features, or less detailed for certain simpler core features as determined by the development team. Features listed are limited to MVP and Core Features only.

**Requirements Guidelines given:**

**Requirements in the form of user stories**
**• List user stores for all your features, but only include details in user stories that are part of your MVP**
**• Format: As a [persona], I [want to], [so that]**
**• User stories that are part of you MVP should have acceptance criteria o Make sure your acceptance criteria are well thought out o Acceptance criteria are a set of criteria to be met before a user story can be considered complete o Acceptance criteria should be testable o Acceptance criteria help reduce ambiguity**

**Create User stories for all features:**
**(Working list, please add to this. You can put initials next to user story you are working on)**
Use food suggestion tool (JB), Post a Photo, Add a New Friend, Create a New User Account(SB), Create New Admin Account, User Login, User Logout, View Newsfeed, Edit Profile Information, Change Password, Change Email Address, Change User Name, Search Posts, User Password Recovery, Data Store Connection Errors, Server Errors, App/ Client Side Errors, Event Logging,

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## 1.2 User Story Template and Format:

**Requirements Template:**

Acceptance criteria for user story are the numbered steps of the scenario, and the numbered items of the post-conditions, the exceptions, and the non-functional requirements.

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|---|
| **User Story Name**: Based on a feature. Example: Successful User log-in. |
| **User Story Number:** #.#.# |
| **Summary:** Format given as: As a [persona], I [want to], [so that…] |
| **Precondition:** (What does the start of the scenario look like? Example, user logged in on their homepage.) |
| **Scenario: (write out step-by-step events for user story.)**<br>1. ex) User selects a feature from home page.<br>2. User inputs information into this field.<br>3. Information displayed and option given to continue.<br>4. Option to quit and return home is selected. |
| **Post-Condition:** (Enter state of system at end of scenario, such as what page the user is on, what data has been updated, what has been deleted from the system, what is ready to happen next, ect.)<br>1. ex) User profile is updated with new data inputted. |
| **Exceptions:**<br>1. ex) Invalid data is inputted, such as a negative number for age. Display error message and ask user to input only valid input for age. |
| **Non-Functional Requirements:**<br>1. Information must be displayed to the user in less than 2 seconds.<br>2. Only valid email address must be accepted.<br>3. User must have the option to quit and return to the home page. |

**Black Template:**

| |
|---|
| **User Story Name**: |
| **User Story Number:** |
| **Summary:** |
| **Precondition:** |
| **Scenario:** |
| **Post-Condition:** |
| **Exceptions:** |
| **Non-Functional Requirements:** |

# User Stories By Feature

## 2.1 User Accounts:

Create User Account, Create Admin Account, Delete User Account, Delete Account Account, Change User to Admin, Change Admin To User, Change Password, Login, Logout, Forgotten Password Login, Forgotten Username Recovery, Update Email Address, Edit Profile Info

**User Story Name**: Successful User Account Creation.

**User Story Number:** 2.1.1

**Summary:** Format given as: As an unregistered user, I want to create an account, so I can save my food preferences and use social media features such as: uploading photos and leaving comments.

**Precondition:** Unregistered user is on the app’s home page.

**Scenario: (write out step-by-step events for user story.)**

1. User taps on the “create an account” button on the home page.
2. Terms and Services for account creation are displayed
3. User accepts ToS
4. The user enters required account information such as: real name, screen name, email, phone number, and security questions.
5. User chooses a method, either email or phone number, to receive a verification code.
6. The verification code is sent via the method the user chose.
7. The user enters the verification code into the app

**Post-Condition:** User is returned to the home page with an account with data that corresponds to the data entered during account creation.

**Exceptions:**

1. User declines ToS
2. User cancels account creation
3. User enters the wrong verification code too many times
4. User takes too long to enter correct verification code

**Non-Functional Requirements:**

1. Only valid email addresses must be accepted.
2. Only valid phone numbers must be accepted
3. Users must have the option to quit account creation and return to the home page.
4. Password must be at least 8 characters
5. Password must contain at least 1 number
6. Password must contain at least 1 upper case letter and at least 1 lower case letter
7. Password must have at least 1 special character (@,?,!, etc.)

**User Story Name**: Deleting an account

**User Story Number:** 2.1.2

**Summary:** As a user/admin, I want to delete my/a account, So I can no longer use this application

**Precondition:** User is logged into the app.

**Scenario:**

1) User goes to the app options
2) User taps delete my account
3) The app asks the user to confirm deletion
4) The user either accepts or declines the prompt.
5) If the user chooses to delete their account, the app then signs the user out and deletes the account.

**Post-Condition:** User is redirected to the app’s login

**Exceptions: -** User decides not to delete account

**Non-Functional Requirements:**

-The account needs to exist

-Account should not be locked or

## 2.2 Event Logging:

View Events, Archive Events, Error Logging

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|---|
| **User Story Name:** View Recent Event Logs |
| **User Story Number: 2.2.1** |
| **Summary:** As an admin, I want to view recent events of all the users that logged in to the app. The log will gather the specified date , with a default time frame. |
| **Precondition:** User must login successfully in the app. |
| **Scenario:**<br>1. Once a user is logged in successfully it will log the specified date ,with a default time frame.<br>2. All the gathered data will be stored in the database following recent to oldest. |
| **Post-Condition:** Database will show logs of all user logins, logout and app data from recent to oldest. |
| **Exceptions:**<br>1. User decides not to login to the app.<br>2. Users decide not to share their data. |
| **Non-Functional Requirements:** |

**User Story Name:** Archive Event Logs

**User Story Number: 2.2.2**

**Summary:** As an admin, I want to archive all the user data that has been saved in the database for more than 60 days,

**Precondition:** User account must be 60 days old.

**Scenario:**

1. User must create an account.
2. User must give access to admin to collect their data.
3. User account must be 60 days old. In order to archive the past 60 days data.

**Post-Condition:** User data will be archived from the database after 60 days.

**Exceptions:**

1. User decides not to share their data.
2. Don’t archive the data if the user account isn’t 60 days old.

**Non-Functional Requirements:**

**User Story Name**: Error Event Logging

**User Story Number: 2.2.3**

**Summary:** As the system admin or member of the development team, I want to havel error event logged in to determine what conditions caused the error and identify the context in which it occurred

**Precondition:** Errors occuring that prevent user getting to another workflow

**Scenario:**

1. Service fails to load during startup
2. Exceed password input attempts
3. Lost of data/functionality

**Post-Condition:** Errors Event will be logged in the database

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|---|
| **Exceptions:** The errors are caused by system crash or network errors |
| **Non-Functional Requirements:** |

## 2.3 Error Handling:

Database Errors, System Crash, Network Errors

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|---|
| **User Story Name**: Generate Error Report |
| **User Story Number:** 2.3.1 |
| **Summary:** As a system admin or member of the development team, I want system errors to generate reports that can be saved in a .txt file so problems with the system can be recognized and fixed. |
| **Precondition:**<br>1. System throws an error/system detects an error occurring. |
| **Scenario:**<br>1. Error codes and timestamp recorded to a .txt file.<br>2. File is named according to the error code and timestamp.<br>3. State of system or other additional information about error is appended to the .txt file. |
| **Post-Condition:**<br>1. Error .txt file is saved to the data store. |
| **Exceptions:**<br>1. Undefined error - timestamp still recorded<br>2. System crash - generate error  report of crash on system reboot. |
| **Non-Functional Requirements:**<br>1. Error reports must be viewable in the database within 5 minutes.<br>2. Error reports must be stored for 30 days before being moved to an archival data store. |

**User Story Name**: Display Error Message to User

**User Story Number:** 2.3.2

**Summary:** As a system user, I want to have a message explaining what error is occurring so I know what is not working on the system, or if I have done something wrong and how to continue.

**Precondition:**

1. System throws an error exception.

**Scenario:**

1. System queries database for error code.
2. Error message is retrieved from the data store and displays the appropriate message.
3. User observers the error message displayed on the page.
4. User selects to continue.

**Post-Condition:**

1. User observers previous page seen before error occur, or last stable page.

**Exceptions:**

1. Undefined or unexpected error occurs. Generic unexpected error occurred message is shown to the user.

**Non-Functional Requirements:**

3. Error message must be displayed to the user within 10 seconds.
4. Error message must correspond to the error that occurred. Example, invalid user input must display a message notify the user of the invalid input in which field, and what input is accepted.

## 2.4 Food Suggestion Tool:

Use Food Suggestion Tool

**User Story Name**: Use Food Suggestion Tool

**User Story Number:** 2.4.1

**Summary:** As a user, I want to use the food suggestion tool to get some ideas for my next meal.

**Precondition:** Food Suggestion Tool has been selected.

**Scenario:**

1. User selects the food suggestion tool.
2. User is shown a selection of four food pictures with descriptions, some random (based perhaps recent posts, or recently liked suggestions perhaps), and some based on broad categories(breakfast, lunch, dinner, healthy snack, ect.).
3. User can select a suggestion to view more suggestions like it, or foods in similar categories.
4. User observers the new food suggestions and has the option to continue selecting foods suggested.
5. The user selects to view previous suggestions.
6. The user likes a suggestion that they want to eat.
7. User selects to quit and return to the home page or chooses to start over.

**Post-Condition:**

1. User is now an observer on the home page.

**Exceptions:**

1. Suggestion results not found: error message is displayed to the user explaining that the tool doesn’t have any more suggestions. The user can go back to previous suggestions or start over.

**Non-Functional Requirements:**

1. All four food suggestions must be displayed in less than three seconds.
2. User must be able to quit and return to home page at any time.
3. User has option to go back to previous suggestions.

## 2.5 Photo Posting:

Post Photo, Delete Photo, Edit Photo Caption

**User Story Name**: Post Photo

**User Story Number:** 2.5.1

**Summary:** As a user, I want to post a photo so others on the app can view it, and read my caption for it.

**Precondition:** On homepage, selection was made to post a new photo.

**Scenario:**

1. User observers photo upload page.
2. Selects to upload new photo from their device.
3. Observers a preview of their uploaded photo and is asked to continue or cancel.
4. Selects to continue.
5. Prompt to write a caption to go with the photo and select continue or cancel.
6. Writes a short caption.
7. Selects continue.
8. Observers a preview of the post, which now includes the title bar showing their username above the post as it will appear later, and is asked to select finish post or cancel.
9. Selects finish post.

**Post-Condition:**

1. User observers their post at the top of their updated newsfeed.
2. Newly uploaded photo post can be viewed on that user's profile page.
3. System saves user's post in database.
4. User's post will be added to newsfeeds when relevant.

**Exceptions:**

1. User selects to cancel during the process. Upload photo is deleted from the system, as well as caption text if included. User returns to the previous page.
2. File upload is not of the type .jpeg. Error message displayed to user that file upload must be a jpeg. User selects to quit and returns to the previous page.
3. File size too large. An error message displays what the maximum file size is and that file is too large to be uploaded. User selects to quit and returns to the previous page.
4. Database doesn't respond. Display message that photo posts are not working at the moment. User selects to quit and returns to the previous page.

**Non-Functional Requirements:**

1. Photos uploaded must appear to the user as a preview within 10 seconds.
2. Image size is a maximum dimension in pixels of 1080 in width by 1920 in height. Image size minimum is 200 by 200 pixels.
3. Only jpeg format is accepted.
4. Larger size photos must be fitted to within pixel dimensions min and max.
5. Upload file size max is 20 Mb.

**User Story Name**: User Deletes a Photo Post.

**User Story Number:** 2.5.2

**Summary:** As a user, I want to select one of my photo posts to delete, so that others can no longer view that post anymore.

**Precondition:**

1. User has at least one photo post.
2. Is viewing the photo post of theirs they want to delete.

**Scenario:**

1. While viewing the photo post, selects options icon in the corner of the title bar above the photo.
2. Selects option to delete post.
3. View option to confirm delete or cancel.
4. Selects delete.

**Post-Condition:**

1. Page the user is on is now updates to show that the photo post has been deleted.
2. Photo post is now no longer displayed to user of the system.
3. Photo is now set to be deleted completely from the system.

**Exceptions:**

1. User selects cancel during the process. User now returns to view they had before they selected option icon, and can see their photo post. No changes made to the system.
2. Database not responding. Error message displayed, and returns to previous page.

**Non-Functional Requirements:**

1. Photo selected to be deleted by user must update to no longer been seen by user or other users within 5 seconds.
2. Photo post, with image and caption must be deleted from the photo database by least 30 days. Photo post, image and caption, must be deleted from archived by 180 days from deletion.

## 2.6 Newsfeed:

______Display Updated User's Newsfeed

**User Story Name**: News Feed Updating

**User Story Number: 2.6.1**

**Summary:** As a user, I want to see the most recent photos/posts my friends or the people who I followed just posted.

**Precondition:** User logged in and the newsfeed is refreshed.

**Scenario:**

1. System queries database for most recent posts related to the user account by friends, recent posts, and by others closest to the user.
2. System displayed the results to the news feed as pictures with captions in a vertical arrangement so the user can scroll down.
3. User scrolls down the news feed and observers posts.
4. System displays a button to update news feed.

**Post-Condition:**

1. A new set of posts is added to the top of the news feed.

**Exceptions:** Show the user the post where they last left when they are coming back from a different tab, unless the user then proceeds to refresh the newsfeed.

**Non-Functional Requirements:**

1. Display button to update newsfeed after 3 minutes.
2. Display news feed within 3 seconds of user view homepage.

## 2.7 Search Function:

______Search for Post by Keyword

**User Story Name**: Search Function

**User Story Number: 2.7.1**

**Summary:** As a user, I want to see posts related to the keywords I entered.

**Precondition:** User is logged in and viewing the homepage.

**Scenario:**

1. Types keywords into the search bar.
2. Hits the search button.
3. System searches database for posts with keywords included in description, or matching username or user email.
4. Relevant post are ordered by best match to keywords, friends posts, and user location nearest to user's location.

**Post-Condition:**

1. Search results are displayed as a newly updated news feed displayed on the homepage.

**Exceptions:**

1. No matches found. Message is displayed saying no matches found in the system. Recommend broadening the search by using fewer keywords, or searching by username or email of friends.

**Non-Functional Requirements:**

1. Updated news feed with search results should be displayed on the user's homepage in less than