

# Black Bear Foodshare

## System Requirements Specification

Olive Food Solutions

Dr. Scott Marzilli

Team Members: Dumas Wesley, Kaulenas Corey, Moody-Broen Makai, Sima Denis, Sholler Jakob

Black Bear FoodShare  
System Requirements Specification

## Table of Contents

<b>1. Introduction.....</b>	<b>3</b>
1.1 Purpose of this Document.....	3
1.2 References.....	3
1.3 Purpose of the Product.....	3
1.4 Product Scope.....	3
<b>2. Functional Requirements.....</b>	<b>6</b>
<b>3. Non-Functional Requirements.....</b>	<b>14</b>
<b>4. User Interface.....</b>	<b>15</b>
<b>5. Deliverables.....</b>	<b>15</b>
<b>6. Open Issues.....</b>	<b>16</b>
<b>Appendix A - Agreement Between Customer and Contractor.....</b>	<b>17</b>
<b>Appendix B - Team Review Sign Off.....</b>	<b>18</b>
<b>Appendix C - Document Contributions.....</b>	<b>19</b>

# 1. Introduction

This is (Black Bear FoodShare) capstone project for Dr. Scott Marzilli, in partial fulfillment of the computer science BS degree for the University of Maine. The purpose of this project is to develop an application for various food servers on campus to easily post excess food to the students of UMaine. These posts will include the food, photos of the food, the location and pictures of the location. The goal of this project is to reduce waste and increase sustainability on campus, while also complying with regulations to make sure the excess food is safe to consume.

## 1.1 Purpose of this Document

This document specifies the required functions and metrics of the Black Bear FoodShare application. The SRS is intended to create a foundation for both the Olive Food Solutions (OFS) and the UMaine Dining team to agree upon and work from. This document seeks to specify the functional requirements (what this application is meant to do and how it will do it), the non-functional requirements (performance speed, user capacity, etc.), and provide the groundwork for UI, deliverables, and open issues.

## 1.2 References

*Food Safety and business - cooperative extension: Food & health - university of maine cooperative extension.* Cooperative Extension: Food & Health. (2025, June 22).  
<https://extension.umaine.edu/food-health/food-safety/>

Fowler, M. (2018). UML distilled : a brief guide to the standard object modeling language. Addison-Wesley.

## 1.3 Purpose of the Product

Dr. Marzilli has 12 years of experience in student success and innovation. During this time, Dr. Marzilli noticed two things. First was the excess food waste from various hosts on the campus, and second there are students who don't eat as much as they should. This birthed the idea of Black Bear FoodShare. The goal of Black Bear FoodShare is to provide the hosts on campus an easy way to post the excess food they have to the students of the university. While at the same time allowing any student who would like to be able to sign up for push notifications to see these posts as they are created to obtain some of the excess food. Reducing food waste, and feeding students so that they can continue to focus on their studies.

## 1.4 Product Scope

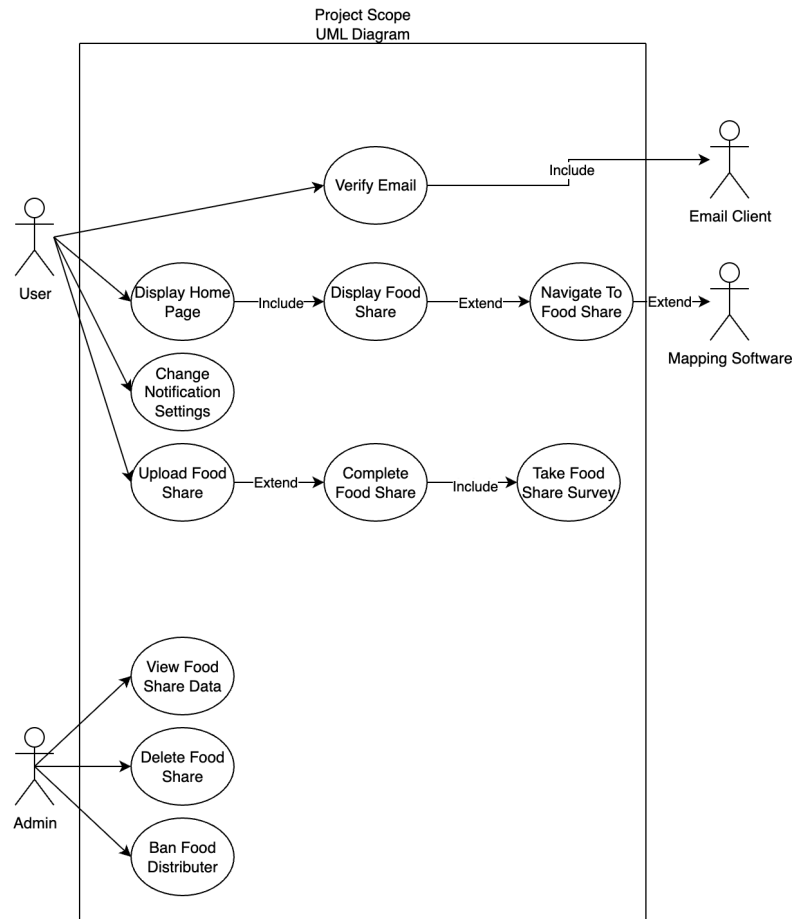
The Black Bear FoodShare application will provide a platform for verified university-affiliated food servers ("Hosts") to post announcements about excess food, including details and photographs. It will allow university students ("Users") to view these posts and opt-in to receive push or SMS notifications for new posts.

### In-Scope:

- Hosts food shares for anybody with a UMaine email
- Letting hosts make posts with food and location pictures.
- Sending alerts to students for new posts.
- A short survey for hosts when they end a food share.
- The system and database that runs the app.

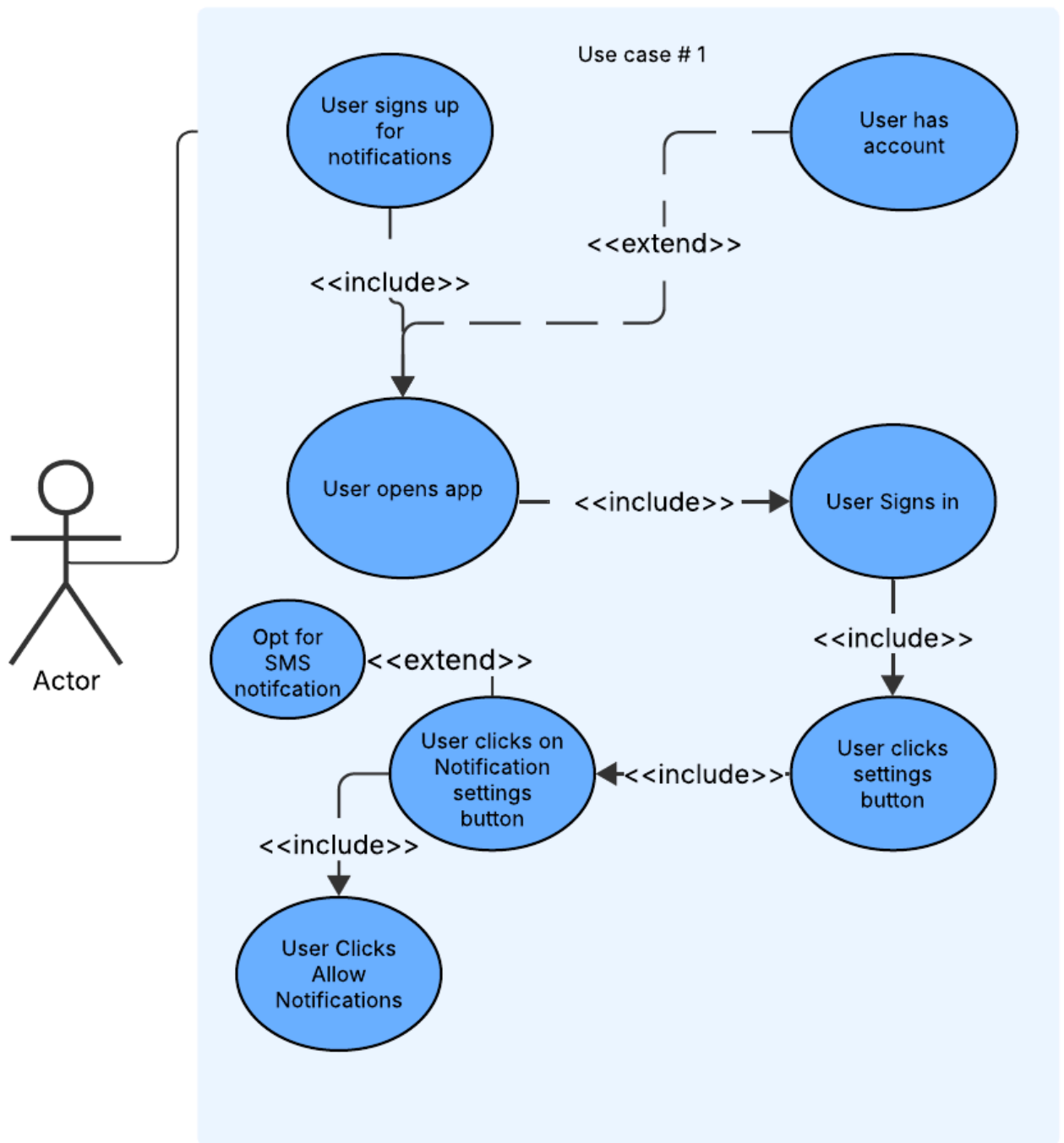
### Out-of-Scope:

- No money or payments.
- No chat between users and hosts.
- No food delivery.
- No user reviews or star ratings.
- No sharing to Facebook or other apps.



## 2. Functional Requirements

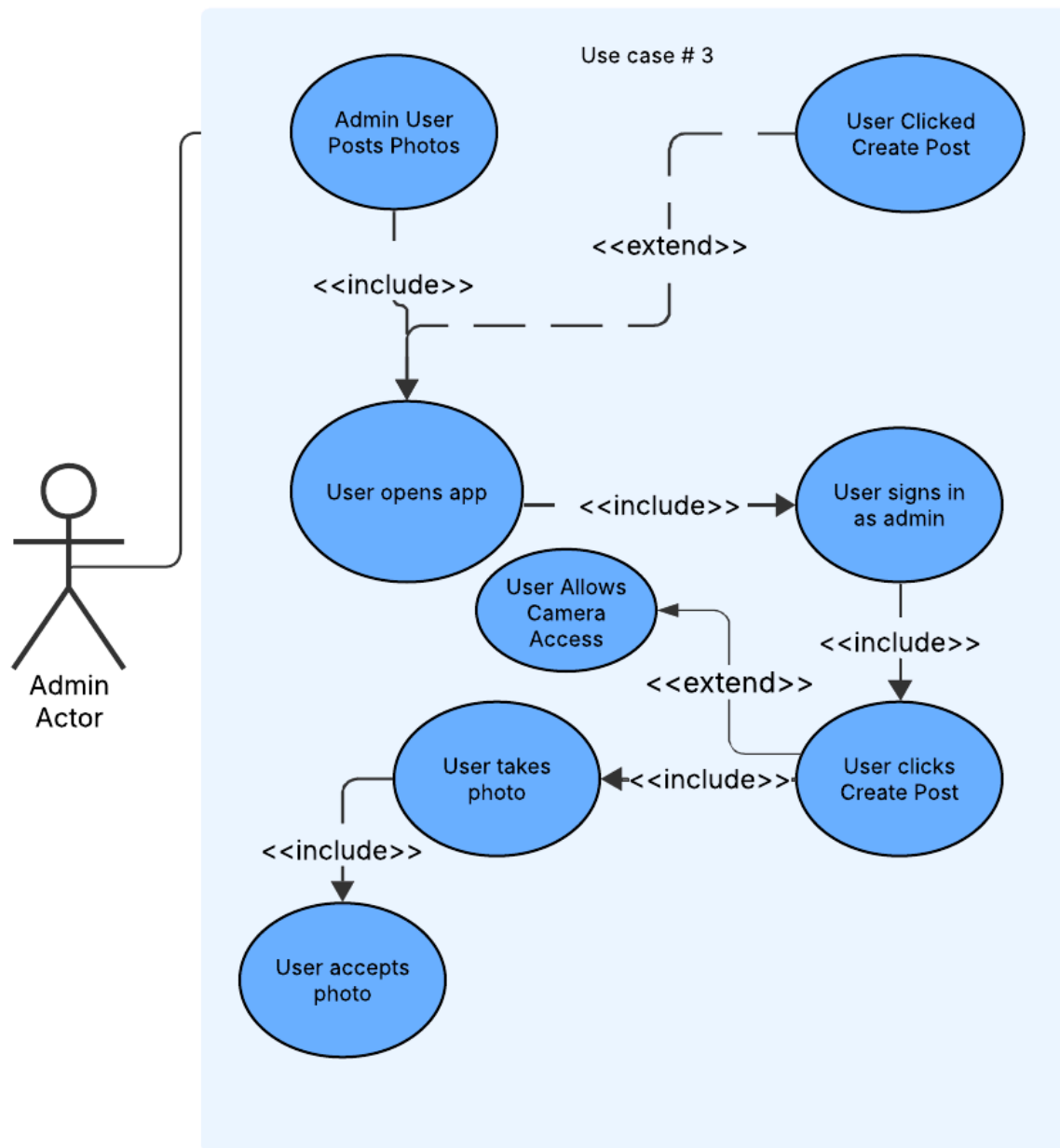
<b>Number</b>	UC-001	
<b>Name</b>	Users shall be able to sign up for push notifications.	
<b>Summary</b>	Allows the user to opt in to push notifications to get live updates on excess food being shared around campus.	
<b>Priority</b>	5	
<b>Preconditions</b>	User has the app open. User must have a verified email.	
<b>Postconditions</b>	User now receives either push notifications or SMS notifications.	
<b>Primary Actor</b>	User	
<b>Secondary Actors</b>	Client OS	
<b>Trigger</b>	User clicks on “notifications” in account settings.	
<b>Main Scenario</b>	<b>Step</b>	<b>Action</b>
	1	User navigates to account settings.
	2	User navigates to notification settings.
	3	User opts in for push notifications.
<b>Extensions</b>	<b>Step</b>	<b>Branching Action</b>
	3b	User opts in for SMS notifications. User enters their phone number.
<b>Open Issues</b>		



<b>Number</b>	UC-002	
<b>Name</b>	Create food share	
<b>Summary</b>	Allows a verified user to create a food share.	
<b>Priority</b>	5	
<b>Preconditions</b>	User has app open User must have a verified email	
<b>Postconditions</b>	The food share is created and viewable on the app.	
<b>Primary Actor</b>	User	
<b>Secondary Actors</b>		
<b>Trigger</b>	User clicks “create food share” button.	
<b>Main Scenario</b>	<b>Step</b>	
	1	The user is presented with inputs for “event name”, “add picture”, “end time”, “location”.
	2	The user enters this info.
	3	The user clicks “accept”.
<b>Extensions</b>	<b>Step</b>	
	3a	User attempts to submit without filling necessary fields, is presented with an error message.
<b>Open Issues</b>	N/A	

<b>Number</b>	UC-003	
<b>Name</b>	Hosts shall be able to upload and post images inside their posts.	
<b>Summary</b>	Allows for hosts to upload two photos into their posts; 1. a Picture of the food and 2. a picture of the location the food is at.	
<b>Priority</b>	4	
<b>Preconditions</b>	Host has app open and has verified email Create post is open	
<b>Postconditions</b>	Images have been added to the post.	
<b>Primary Actor</b>	Host	
<b>Secondary Actors</b>	Client OS	
<b>Trigger</b>	Host clicks “add photo”(either food or location).	
<b>Main Scenario</b>	<b>Step</b>	<b>Action</b>
	1	Host clicks “add photo”.
	2	Host is prompted and allows camera access.
	3	Host takes a photo.
	4	Host’s photo is added to post.
	5	Repeat steps 1-4 for other photo (Food or Location).
<b>Extensions</b>	<b>Step</b>	<b>Branching Action</b>
	2b	Host has already given permission for camera access Jump to Step 3.
<b>Open Issues</b>	N/A	





<b>Number</b>	UC-004	
<b>Name</b>	View current Food Shares	
<b>Summary</b>	Allows a user to view the current food shares around them on the homepage of the app.	
<b>Priority</b>	4	
<b>Preconditions</b>	User must have the app open and have a verified account.	
<b>Postconditions</b>	A list of food shares must be listed on the screen.	
<b>Primary Actor</b>	User	
<b>Secondary Actors</b>	N/A	
<b>Trigger</b>	The user either opens the app, or clicks the home page.	
<b>Main Scenario</b>	<b>Step</b>	<b>Action</b>
	1	The user navigates to home.
	2	App refreshes and User is presented with active food shares.
<b>Extensions</b>	<b>Step</b>	<b>Branching Action</b>
<b>Open Issues</b>	N/A	

<b>Number</b>	UC-005	
<b>Name</b>	Ending food shares	
<b>Summary</b>	When a host ends a food share, they will be asked to complete a survey before the food share is deleted.	
<b>Priority</b>	5	
<b>Preconditions</b>	A host must have created a food share, and has clicked on the “end food share” button. The host must also have a verified email.	
<b>Postconditions</b>	The food share must be deleted, and the host must have taken a survey.	
<b>Primary Actor</b>	User	
<b>Secondary Actors</b>	N/A	
<b>Trigger</b>	The host clicks the “end food share” button.	
<b>Main Scenario</b>	<b>Step</b>	<b>Action</b>
	1	The host clicks the “end event” button.
	2	The host is presented with survey
	3	Host answers roughly how many students attended the event, and roughly how much food was taken
	4	Host submits survey
	6	Host is presented with "Successfully deleted message"
<b>Extensions</b>	<b>Step</b>	<b>Branching Action</b>
	2a	User submits without completing survey
<b>Open Issues</b>	N/A	

<b>Number</b>	UC-006	
<b>Name</b>	User Verifies Email	
<b>Summary</b>	User gets emailed to verify they are a UMaine student.	
<b>Priority</b>	4	

<b>Preconditions</b>	User has opened the app and the current device is not linked to a verified Email.	
<b>Postconditions</b>	User's device is linked to a verified account.	
<b>Primary Actor</b>	User	
<b>Secondary Actors</b>	Email Client	
<b>Trigger</b>	User opens the app for the first time.	
<b>Main Scenario</b>	<b>Step</b>	<b>Action</b>
	1	Client shows email input.
	2	User inputs email.
	3	Client sends request to server with email.
	4	Server sends verification email.
	5	User opens email in email client.
	7	User verifies through HTTPS link.
	8	Client sends request to server to verify.
	9	Server marks email as verified.
	10	Server sends confirmation information to client.
<b>Extensions</b>	<b>Step</b>	<b>Branching Action</b>
	9a	If the email isn't in the maine.edu domain, return an invalid email error.
<b>Open Issues</b>		

<b>Number</b>	UC-007	
<b>Name</b>	User Filters Food Shares by Allergy.	
<b>Summary</b>	User applies filters to remove food shares containing potential allergens.	
<b>Priority</b>	3	
<b>Preconditions</b>	User has verified account and opened homepage.	
<b>Postconditions</b>	User is presented with only food shares which meet criteria.	
<b>Primary Actor</b>	User	
<b>Secondary Actors</b>	N/A	
<b>Trigger</b>	User navigates to home	
<b>Main Scenario</b>	<b>Step</b>	<b>Action</b>
	1	User clicks "drop down menu" button.
	2	User clicks "filter" option.
	3	User clicks which criteria they would like to filter by.
	4	User submits.
	5	Page refreshes.
	7	User is presented with matching food shares.
<b>Extensions</b>	<b>Step</b>	<b>Branching Action</b>
	4a	If no food shares match criteria, return "No available food shares".
<b>Open Issues</b>		

<b>Number</b>	UC-008	
<b>Name</b>	Host Adds Allergen warning.	
<b>Summary</b>	User selects allergens included in food share before posting.	

<b>Priority</b>	3	
<b>Preconditions</b>	Host is in the process of creating a food share.	
<b>Postconditions</b>	Included allergens are listed in food share.	
<b>Primary Actor</b>	Host	
<b>Secondary Actors</b>	N/A	
<b>Trigger</b>	Host has created a food share and clicks “post”.	
<b>Main Scenario</b>	<b>Step</b>	<b>Action</b>
	1	Host clicks on “edit food share”
	2	Client sends request to server asking for food share info
	3	Server receives and returns food share
	4	Client presents options to change the allergens and options in food share
	5	Host inputs information and clicks “confirm”
	6	Client sends request to edit food share with required credentials
	7	Server receives request, verifies it, and edits the database accordingly
<b>Extensions</b>	<b>Step</b>	<b>Branching Action</b>
	7a	Request is invalid, so there server returns an error code
<b>Open Issues</b>		

<b>Number</b>	UC-009	
<b>Name</b>	User accesses location map service	
<b>Summary</b>	User clicks on “food share address” which navigates the user to their default mapping software.	
<b>Priority</b>	2	
<b>Preconditions</b>	User has clicked on food share.	
<b>Postconditions</b>	User is viewing mapping app which shows steps to reach the food share’s location.	
<b>Primary Actor</b>	User	
<b>Secondary Actors</b>	Mapping client	
<b>Trigger</b>	User accesses food share location.	
<b>Main Scenario</b>	<b>Step</b>	<b>Action</b>
	1	User clicks on hyperlinked address in food share information.
	2	User is navigated to the system's default mapping software.
	3	User is presented with the desired location in mapping software.
	4	User clicks “accept”.
	5	User is presented with directions for the destination.
<b>Extensions</b>	<b>Step</b>	<b>Branching Action</b>
	4a	The user does not accept and returns to the Foodshare application.
<b>Open Issues</b>		

<b>Number</b>	UC-010	
<b>Name</b>	View Food Share	
<b>Summary</b>	User views entire food share when clicking on it in the home page	
<b>Priority</b>	3	
<b>Preconditions</b>	User is on the home page	
<b>Postconditions</b>	User sees food share in its own page	
<b>Primary Actor</b>	User	
<b>Secondary Actors</b>		
<b>Trigger</b>	User clicks on food share	
<b>Main Scenario</b>	<b>Step</b>	<b>Action</b>
	1	Client sends request to server for food share
	2	Server returns food share data
	3	Client displays food share
<b>Extensions</b>	<b>Step</b>	<b>Branching Action</b>
<b>Open Issues</b>		

<b>Number</b>	UC-011	
<b>Name</b>	Admin Views Food Share Data	
<b>Summary</b>	Admin views the current data about all food shares, current and past	
<b>Priority</b>	2	
<b>Preconditions</b>	Admin is on the admin page with proper credentials	
<b>Postconditions</b>	The food share data is downloaded as a zip file	
<b>Primary Actor</b>	Admin	
<b>Secondary Actors</b>		
<b>Trigger</b>	Admin clicks on “export data”	
<b>Main Scenario</b>	<b>Step</b>	
	1	Client sends request for food share data
	2	Server packages the database and returns it
	3	Client downloads the zip file
<b>Extensions</b>	<b>Step</b>	
<b>Open Issues</b>		

<b>Number</b>	UC-012	
<b>Name</b>	Admin Deletes Food Share	
<b>Summary</b>	Admin deletes a specific running food share	
<b>Priority</b>	3	
<b>Preconditions</b>	Admin is on the admin page with proper credentials	
<b>Postconditions</b>	The food share is deleted from the database	
<b>Primary Actor</b>	Admin	
<b>Secondary Actors</b>		
<b>Trigger</b>	Admin clicks on “delete food share”	
<b>Main Scenario</b>	<b>Step</b>	
	1	Client sends request to server to delete with proper credentials

	2	Server receives and checks request before deleting it from the database
	3	Server returns response
	4	Client displays response
<b>Extensions</b>	<b>Step</b>	
	3a	If food share couldn't be deleted, return error code, else success
<b>Open Issues</b>		

<b>Number</b>	UC-013	
<b>Name</b>	Admin Bans Food Distributer	
<b>Summary</b>	Admin bans food distributor from creating more food shares	
<b>Priority</b>	4	
<b>Preconditions</b>	Admin is on the admin page with proper credentials	
<b>Postconditions</b>	The account is banned and their food shares are marked as inactive	
<b>Primary Actor</b>	Admin	
<b>Secondary Actors</b>		
<b>Trigger</b>	Admin clicks on "ban food distributor" for a recent food share	
<b>Main Scenario</b>	<b>Step</b>	
	1	Client displays confirmation of ban
	2	Admin confirm or deny
	3	Client sends request to server for deletion with the credentials
	4	Server marks users as banned, and marks all of their food shares for deletion, then returns response
	5	Client displays response
<b>Extensions</b>	<b>Step</b>	
	2a	If admin denies, stop process
	4a	If an error occurred, return error code, else success
<b>Open Issues</b>		

## 1.1 Use Case Tests

<b>Number</b>	UCT-001
<b>Name</b>	Push Notification Test.
<b>Test For</b>	UC-001
<b>Step</b>	<b>Description</b>
1	Start server, and set up dummy food share.
2	Create a verified account with no notifications set up.
3	Call functions to send notification to client.
4	Set account notification preference to "yes".
5	Call functions to send notification to client.
<b>Test on Step</b>	<b>Description</b>

3a	Notification should fail, function return error message.
5a	Function returns notification with food share info.

<b>Number</b>	UCT-002
<b>Name</b>	Create Food Share Test
<b>Test For</b>	UC-002
<b>Step</b>	<b>Description</b>
1	Start server.
2	Call create food share function with various permutations.
2.1	Completely valid food share.
2.2	End time less than current time.
2.3	Empty name.
<b>Test on Step</b>	<b>Description</b>
2.1a	Food share should be in the database, and the function returns success.
2.2-2.3a	Function returns an error specifying what is wrong.

<b>Number</b>	UCT-003
<b>Name</b>	Add Picture to Food Share Server.
<b>Test For</b>	UC-003
<b>Step</b>	<b>Description</b>
1	Start server.
2	Call create food share function with picture.
<b>Test on Step</b>	<b>Description</b>
2.1a	Food share should be in the database, with a link to photo in the database.
2.1b	The photo should be in the database, with expiration date 2 weeks from current date.

<b>Number</b>	UCT-004
<b>Name</b>	View Food Shares
<b>Test For</b>	UC-004
<b>Step</b>	<b>Description</b>
1	Start Server
2	Create multiple dummy food shares
<b>Test on Step</b>	<b>Description</b>
2a	Check to see that food shares are returned when calling the “get all food shares” function

<b>Number</b>	UCT-005
<b>Name</b>	Check if food shares end
<b>Test For</b>	UC-005
<b>Step</b>	<b>Description</b>
1	Start Server

2	Create dummy account 1 and 2
3	Create food share linked to dummy account 1
4	Attempt to end the food share as both accounts
<b>Test on Step</b>	<b>Description</b>
4a	Should fail when dummy account 2 attempts it
4b	Should succeed, with no food share displayed, (but still in database) when dummy account 1 tries

<b>Number</b>	UCT-006
<b>Name</b>	Server Creates Email
<b>Test For</b>	UC-006
<b>Step</b>	<b>Description</b>
1	Start Server
2	Call function to create email with dummy account
3	Call function to verify account
<b>Test on Step</b>	<b>Description</b>
2a	See if function returns an email format that links to the proper validation address
3a	Check if the account is now verified

<b>Number</b>	UCT-007
<b>Name</b>	Filter Food Shares
<b>Test For</b>	UC-007
<b>Step</b>	<b>Description</b>
1	Start Server
2	Create food shares that have different allergens
3	Call function to filter food shares by every allergen added in step 2
<b>Test on Step</b>	<b>Description</b>
3a	Check the contents of the return for every permutation such that they only display the contents with respect to the filter

<b>Number</b>	UCT-008
<b>Name</b>	Add Allergy
<b>Test For</b>	UC-008
<b>Step</b>	<b>Description</b>
1	Start Server
2	Create dummy food shares and user 1
3	Call function to edit food share with additional allergens
<b>Test on Step</b>	<b>Description</b>
3a	Check that the changes are reflected properly within the database, as well when the food share is viewed individually.

<b>Number</b>	UCT-009
<b>Name</b>	Navigates to Food Share



<b>Test For</b>	UC-009
<b>Step</b>	<b>Description</b>
1	Start Server and Client
2	Create dummy food share with location
3	Have client call navigate to food share function
<b>Test on Step</b>	<b>Description</b>
3a	Check that client is linked to the proper google/apple maps location

<b>Number</b>	UCT-010
<b>Name</b>	View food share
<b>Test For</b>	UC-010
<b>Step</b>	<b>Description</b>
1	Start Server
2	Create dummy food share
3	Call function to view food share
<b>Test on Step</b>	<b>Description</b>
3a	Check that food share is in proper format, and has the correct data

<b>Number</b>	UCT-011
<b>Name</b>	Admin Get Food Share Data
<b>Test For</b>	UC-011
<b>Step</b>	<b>Description</b>
1	Start Server
2	Create dummy food shares
3	Call function to get food share data
<b>Test on Step</b>	<b>Description</b>
3a	Check that all food shares are in the data returned, and with correct data, as well as a zip was returned

<b>Number</b>	UCT-012
<b>Name</b>	Admin Delete Food Share
<b>Test For</b>	UC-012
<b>Step</b>	<b>Description</b>
1	Start Server
2	Create dummy food share
3	Call function to delete food share
<b>Test on Step</b>	<b>Description</b>
3a	Check that food share is no longer in the database

<b>Number</b>	UCT-013
<b>Name</b>	Admin Ban User
<b>Test For</b>	UC-013
<b>Step</b>	<b>Description</b>

1	Start Server
2	Create dummy verified user and food shares linked to them
3	Call function to ban user
<b>Test on Step</b>	<b>Description</b>
3a	Check that user is marked as banned, and that their food shares are no longer active

### 3. Non Functional Requirements

Number	Requirement	Test	Priority (1-5)
1.	Black Bear Foodshare shall be able to sustain a user base of 2,000 individuals without suffering in performance.	Use a load testing tool to measure performance with a large number of simulated users.	4
2.	All food postings shall be viewable with a maximum latency of 5 seconds after posting.	Measure latency after a post across several devices	3
3.	Map pins shall display relative location on map with building-level accuracy	Compare locations displayed on an application map to another mapping software, such as Google Maps.	5
4.	It should take a user 30 seconds or less to post a food share.	Create a dummy actor that takes an average amount of time to input info, then time that actor as it “creates” a food share.	2
5.	The system shall not allow unverified users to post food shares.	Have a normal user and a verified user try to post a food share, and see if it works.	5
6.	The system shall have an uptime of 95% per month.	Verify that the uptime is 95% over a monitoring period.	3
7.	The system shall	Measure response time	5

	provide directions to the location of the food with Google Maps within 3 seconds.	from when the user requests directions to when the map opens.	
8.	Only authenticated admins shall be able to access the admin dashboard.	Verify that the admin dashboard cannot be reached without an authenticated account	3
9.	The directions button shall be available within one click from the food event page.	Verify that a user can get directions within one click.	5
10.	The posts shall be automatically removed after the expiry time without manual intervention.	Verify that posts are removed after the expiry time.	2
11.	The app shall load the home screen in under 2 seconds under normal network conditions.	Measure average load time across multiple devices.	4
12.	The system shall ensure data backups occur daily for user and food share data.	Verify backup logs when simulating days	4

## 4. User Interface

Please see User Interface Design Document for Black Bear FoodShare.

## 5. Deliverables

Title of Deliverable	Date Delivered	How it was Delivered (Hard copy? Zip? Git?)
System Requirement Specification	Digitally : 10/20/25	Digitally: pdf, docx Hard copy
System Design Document	Digitally: 11/17/25	Digitally: pdf, docx Hard copy

User Interface Design Document	Digitally: 12/3/25	Digitally: pdf, docx Hard copy
Critical Design Review Document	Digitally: 12/17/25	Digitally: pdf, docx
User Manual	TBD	Digitally: pdf, docx Hard copy
Administrator Manual	TBD	Digitally: pdf, docx Hard copy
All Biweekly Status Reports	TBD	Digitally: pdf, docx Hard copy
(All Source code)	TBD	Git
The Executable program	TBD	Git
(All other software required for installation and execution of delivered program)	TBD	Git

## 6. Open Issues

1. What questions will be on the "end food share" survey?
2. What technology will we use for the app and notifications?
3. What is the exact UI design of the app?
4. What architecture will we use for the internal design of our app?

## Appendix A - Agreement Between Customer and Contractor

The customer and team agree that the document represents a finalized version that meets all agreed upon criteria and requirements. Both parties have thoroughly reviewed the document and all of its contents and agree that the information and structure meet the standards of the requirements. Any feedback or revisions have been addressed and remedied. The document is considered complete and ready for use.

If changes to the System Requirements Specification are required, the team will begin by preparing a draft of the document with the changes. After the draft has been prepared, each team member will review the draft and note any problem with it they might have. Once all the problems have been addressed, the team will review the document once more and sign off on it, to show that they are satisfied with the state of the document. Once that has been completed, we will submit the draft to the client for review and approval.

Wesley Dumas

Signature: Wesley Dumas \_\_\_\_\_ Date: 10/29/25

Corey Kaulenas

Signature: Corey Aras Kaulenas \_\_\_\_\_ Date: 10/29/25

Makai Moody-Broen

Signature: Makai Moody-Broen \_\_\_\_\_ Date: 10/29/25

Denis Sima

Signature: Denis Sima \_\_\_\_\_ Date: 10/29/25

Jakob Sholler

Signature: Jakob Sholler \_\_\_\_\_ Date: 10/29/25

Dr. Scott Marzilli

Signature:  \_\_\_\_\_ Date: 10/29/2025 \_\_\_\_\_

Comments:

## Appendix B - Team Review Sign Off

All team members have thoroughly reviewed this document and reached full agreement on all of its content. No major concerns have been raised, and any minor concerns or clarifications raised by individuals are noted in the comments below their signature. Additionally, all members of the team have agreed upon the formatting and presentation of this document with no major complaints.

Wesley Dumas

Signature: Wesley Dumas \_\_\_\_\_ Date: 10/29/25

Comments:

Corey Kaulenas

Signature: Corey Aras Kaulenas \_\_\_\_\_ Date: 10/29/25

Comments:

Makai Moody-Broen

Signature: Makai Moody-Broen \_\_\_\_\_ Date: 10/29/25

Comments:

Denis Sima

Signature: Denis Sima \_\_\_\_\_ Date: 10/29/25

Comments:

Jakob Sholler

Signature: Jakob Sholler \_\_\_\_\_ Date: 10/29/25

Comments:

## **Appendix C - Document Contributions**

Sholler Jakob, Contributions:

- Introduction
- Deliverable Table Outline
- Functional requirements 1, 2, 6
- Purpose of Product

Dumas Wesley, Contributions:

- Non-functional requirements 1, 2, 6, 7, 8, 9, 10
- Appendix A, B

Moody-Broen Makai, Contributions:

- Purpose of Document
- Non-functional requirements 1, 2, 3
- Functional requirements 6, 7, 8, 9

Kaulenas Corey, Contributions:

- Functional requirements 2, 4, 5, 10, 11, 12, 13
- Non-functional requirements 4, 5, 6
- Product Scope UML Diagram
- All Functional requirement use case tests

Sima Denis, Contributions:

- 1.2 References
- 1.4 Product Scope
- 6. Open Issues
- Functional requirements 5
- Non-functional requirements 12