

Requirements & Design Document - v.2

Spek Application

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- Winter 2022 -

Table of Contents

Revision History	3
Section 1: Requirements	4
Personas	4
Functional Requirements	5
Use Case Diagram	5
Must Haves	6
Nice to Have	7
Would Like to Have if Time Allows	8
Non-Functional Requirements	8
Section 2: UX Design	10
User Journey Map and Touchpoints	10
Wireframes	11
Feed Wireframe	11
User Profile and Badges Wireframe	11
Mockups	12
User Feed Mockup	12
User Posts Mockup	13
Connections Mockup	14
Search Functionality Mockup	14
User Profile and Badges Mockup	15
Eco Footprint Mockup	16
Section 3: Software Design	17
Eco Footprint UML Diagram	17
User Feed UML Diagram	18
User Profile UML Diagram	18
User Flow Diagram	20
Section 4: Deliverables Plan	21





Revision History

Date: 2/13/2022

- Updated User Feed, User Profile, and Eco-Footprint mockups to match current state of project
 - ◆ [User Feed Mockup](#)
 - ◆ [User Profile Mockup](#)
 - ◆ [Eco-Footprint Mockup](#)
- Added User Posts, Connections, and Search Bar mockups
 - ◆ [User Posts Mockup](#)
 - ◆ [Connections Mockup](#)
 - ◆ [Search Bar Mockup](#)
- Updated Eco FootPrint UML Diagram to match current state of Ionic Project
 - ◆ [Eco Footprint UML Diagram](#)
- User Flow Diagram is properly integrated and visible on the document
 - ◆ [User Flow Diagram](#)
- Added Deliverables Plan chart
 - ◆ [Deliverables Plan](#)
- Updated Non-Functional Requirements to reflect the current state of Spek Application.
 - ◆ [Non-Functional Requirements](#)

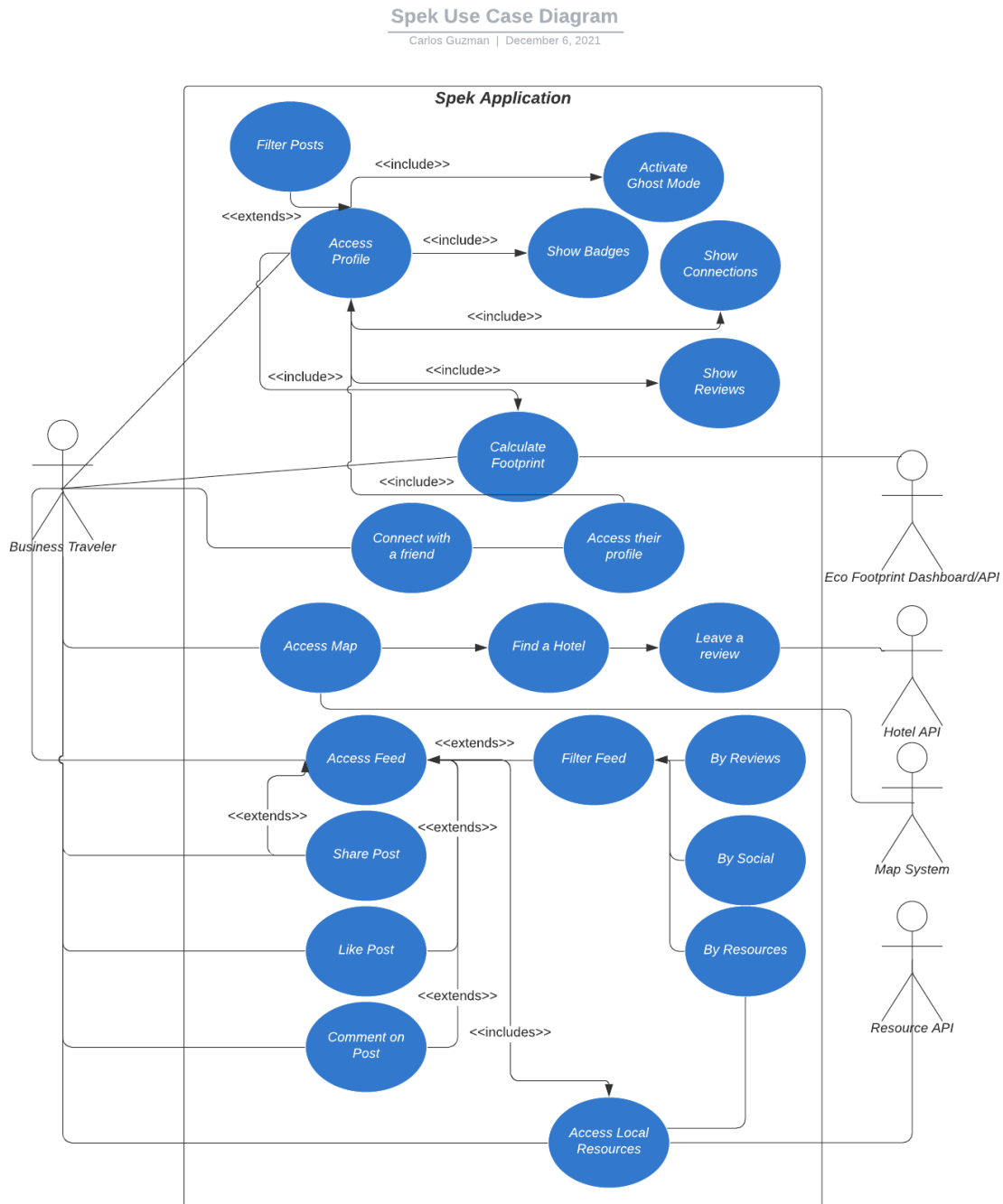
Section 1: Requirements

Personas

<div> <div>LAUREN GOMEZ</div> <div> <i>"I want to share my business trip experiences with my colleagues in a professional manner."</i> </div>  </div>	about <p>Lauren is a business consultant working in Irvine, CA who frequently travels domestically and occasionally travels internationally. Lauren and her Irvine colleagues often recommend certain hotels to one another and she wishes to see her out-of-state and international connections recommendations as well.</p>	bio & personality <p>Age: 30 Status: Married Location: Irvine, CA Income: \$80k</p> <p>Professional: likes to maintain her personal life and media separate from work</p> <p>Private: doesn't like to share too much personal information</p>
	needs <ul style="list-style-type: none"> • View her colleagues' hotel experiences for future reference • Connecting with out-of-state and international colleagues • Keep track of her hotel stays and her experience • Bookmark certain reviews or posts for future reference 	frustrations <ul style="list-style-type: none"> • Remembering which hotel stays were a positive experience and which ones weren't • Meeting with colleagues during business trips can be difficult • Current hotel review platforms are mostly leisure related • Doesn't feel comfortable sharing personal non-work related social media with colleagues
	goals <ul style="list-style-type: none"> • Share business trip experience and hotel stays with connections • Keep and maintain connections made during business trips • Communicate with connections in a professional manner • Modify what type of information is viewable to her connections 	frequently used apps <div>  linkedin  yelp  the dyrt </div>

Functional Requirements

Use Case Diagram



Must Haves

1. Feed full of reviews and connections

As a business traveler, I want to be able to view details on hotel reviews that my connections have posted so that I can see where my colleagues have traveled and if they recommend any hotels.

2. Filter between the different posts on the user feed

As a reviewer, I want to be able to filter the different posts I see on the user feed so that I can easily find the type of content I want to view.

3. Give "PROPS" on review or travel post/Flag a review or travel post for review

As a reviewer, I want to be able to give "props" (upvote/like) to a review or travel-related post on my feed so that I can let my connections know which posts I found helpful as well as interact with my connections.

4. View a article

As a business traveler, I want to be able to view an entire news article from my user feed, so that I do not need to exit the spek app and can go back to my user feed after reading it.

5. Earn badges/trophies

As a business traveler, I want to be able to share milestones reached when earning certain badges so that I can establish myself as a trustworthy reviewer and Spek user.

6. Move between user feed and user profile

As a user, I want to be able to navigate from my user profile to my user feed so that I can view my own information and reviews and also see my connections' reviews and news articles whenever I want to.

7. Request to Connect and accept any Connections

As a business traveler I want to be able to connect with my fellow business colleagues so I can view any badges or updates they have or if they have made any hotel reviews.

8. Search a colleague

As a business traveler, I want to be able to search up my colleagues by username so I can connect with them and have their activity be on my user feed

Nice to Have

1. Miles traveled

As a business traveler, I want to be able to know how many miles I have traveled not only on the duration of my trip, but for the entirety of all of my trips so that I can compare the miles traveled with all of my connections and be more mindful of my footprint.

2. Comment on review or travel post

As a reviewer, I want to be able to comment on other reviews or travel posts so that I can interact with my connections as well as interact with people who I'm not connected with yet and potentially make new connections.

3. View comments

As a reviewer, I want to be able to view other comments on a post so I can further my connections and see what other users have to say about a post.

4. ECO Footprint algorithm estimator

As a business traveler who travels a considerable amount, I want to be able to track my carbon footprint through the application so that I can be more mindful when I travel and compare my footprint to my connections.

5. Post my eco-footprint

As a business traveler, I want to be able to post my eco-footprint to share with my connections so they can see how eco-friendly I am on my business trips.

6. Profile privacy features

As a business traveler I want to be able to turn off my location sharing when I post so my connections cannot track where I am and to ensure privacy for my own safety.

7. Digital Wallet

As a business traveler, I want to be able to have a digital wallet where I can have my cards ready whenever I need them so that way I can have all of my cards in one place and keep track of my spending.

Would Like to Have if Time Allows

1. Network connections and relations (ex: Ted follows your business associate Zach) Similar to LinkedIn connection

As a businessperson, I want to be able to see connections who are close to my network, in order to connect with them and expand my network.

2. Share review or travel post

As a business traveler, I want to be able to share posts and reviews I find helpful in order to show my fellow business travelers and connections

3. COVID resources

As a traveler, I want to see relevant Covid-19 resources and regulations such as news articles and outbreak statistics from the area I am traveling to, in order to be knowledgeable before my trip.

4. Create advertising avenues

As an advertising agency, I want to be able to utilize a business travel app that can be outsourced and sold to many different businesses, in order to create new avenues of advertising and profit.

5. Expense tracking

As a business traveler, I want to have a place where I can log a detailed list of expenses for the entirety of my trip, in order to provide a clean and concise, but detailed, list of expenses to show my employer for compensation.

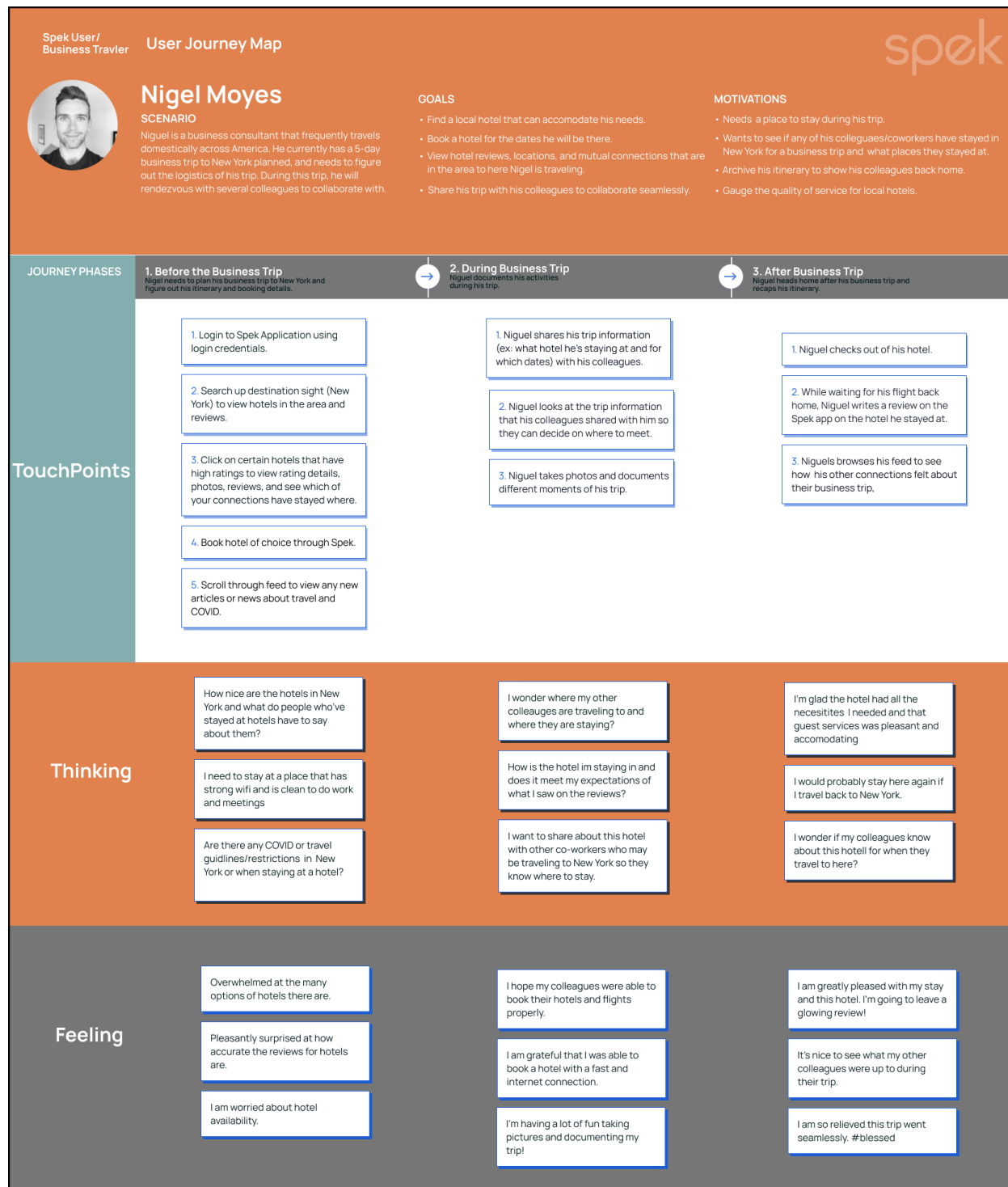
Non-Functional Requirements

1. Security:
 - User data will stored securely and not be used for nefarious purposes
 - Passwords will be hashed and encrypted in a secure database
 - To maintain data privacy, the system shall use roles to differentiate which data is shown to which users.
 - In the future, two-factor authentication will be implemented to further increase user profile security.
2. Supportability:

- The Spek app will be able to be run on any iOS device.
- 3. Reliability:
 - The app should be running 99% of the time and users should be able to view/post reviews during this time.
- 4. Availability:
 - Reviews should be able to be posted during or after trips to hotels.
 - Hotel reviews should be able to be viewed at any time.
 - The system should always be available after logging in the first time unless a user logs out
- 5. Performance:
 - Feed should load as fast as possible (<5 seconds) so that users are immediately able to access content
 - Application should not crash and be able to run for extensive periods of time
- 6. Usability:
 - Users should be able to learn how to navigate through the app and use it to leave reviews after they complete the tutorial.
- 7. Maintainability:
 - The Spek app will receive regular updates to maintain security and performance standards
 - The Spek app will have a team dedicated to reviewing user feed reports to remove malicious, inappropriate, or harmful content.

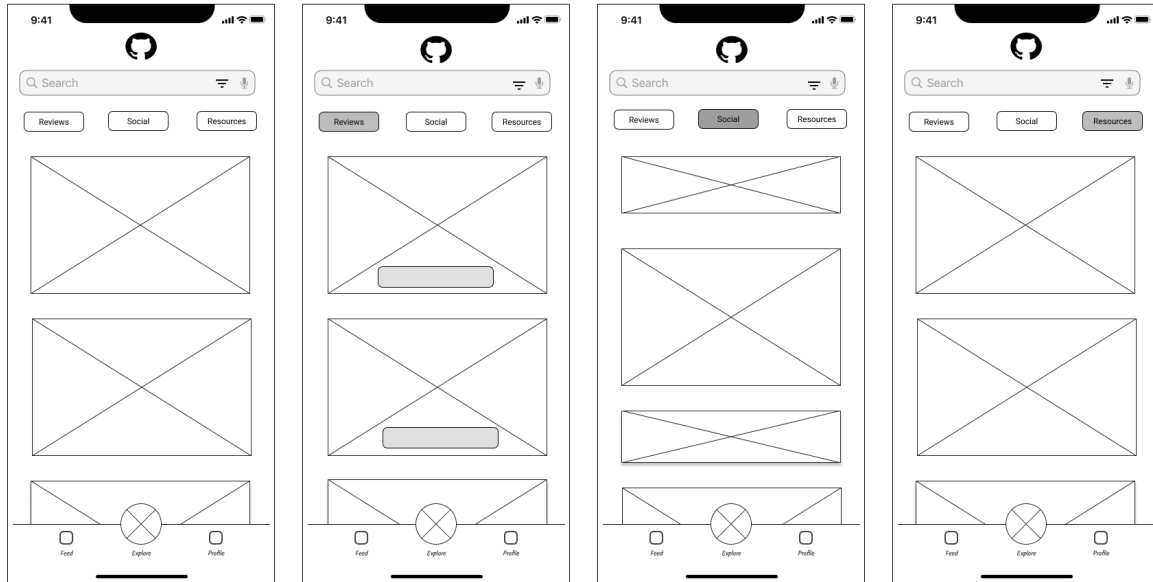
Section 2: UX Design

User Journey Map and Touchpoints

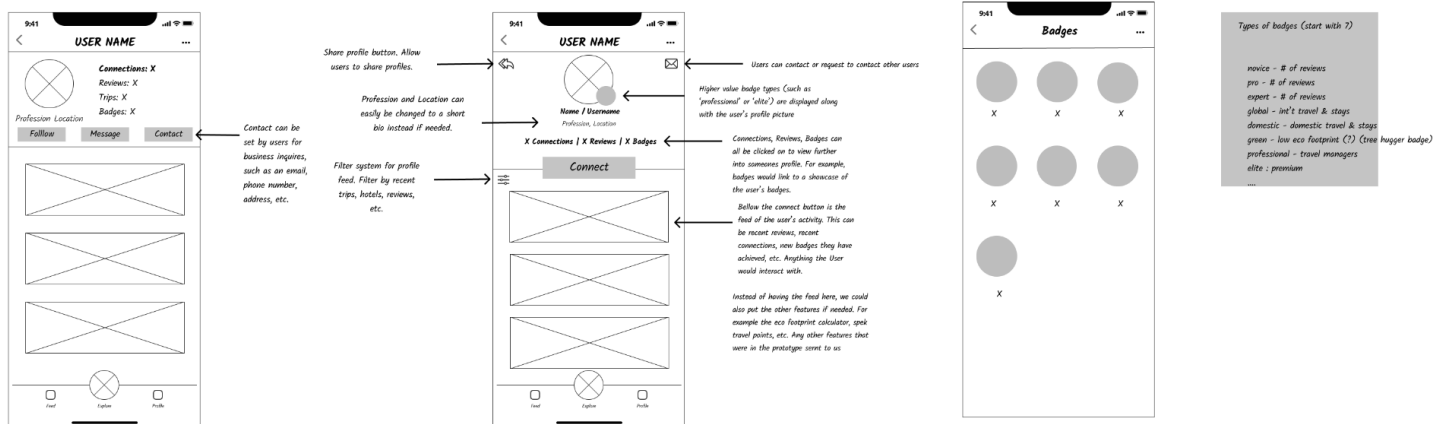


Wireframes

Feed Wireframe

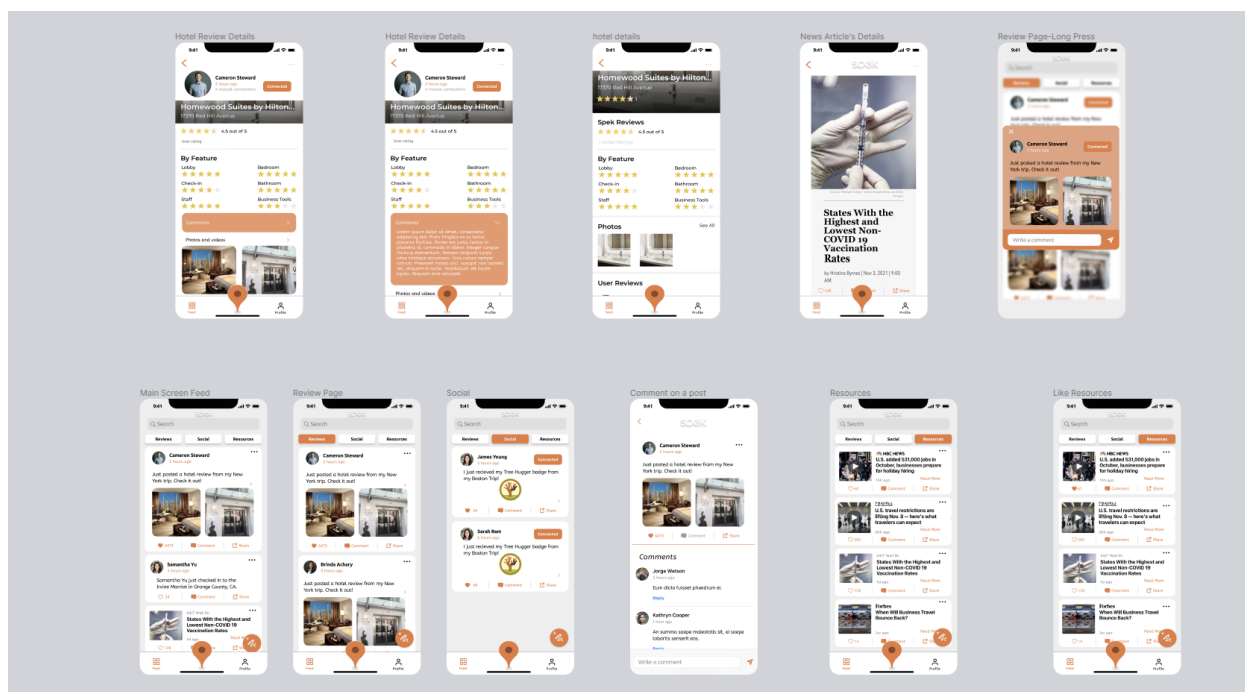


User Profile and Badges Wireframe

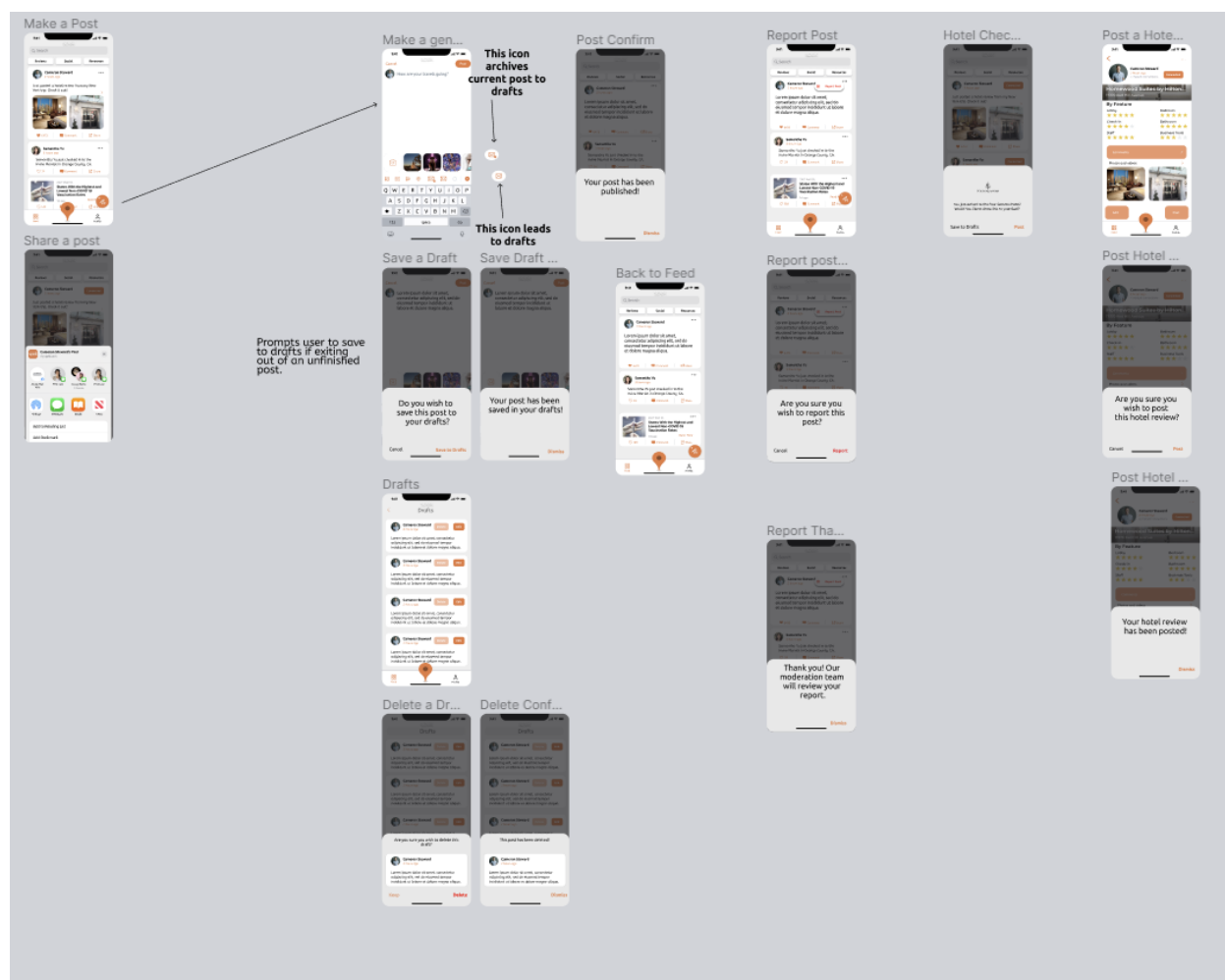


Mockups

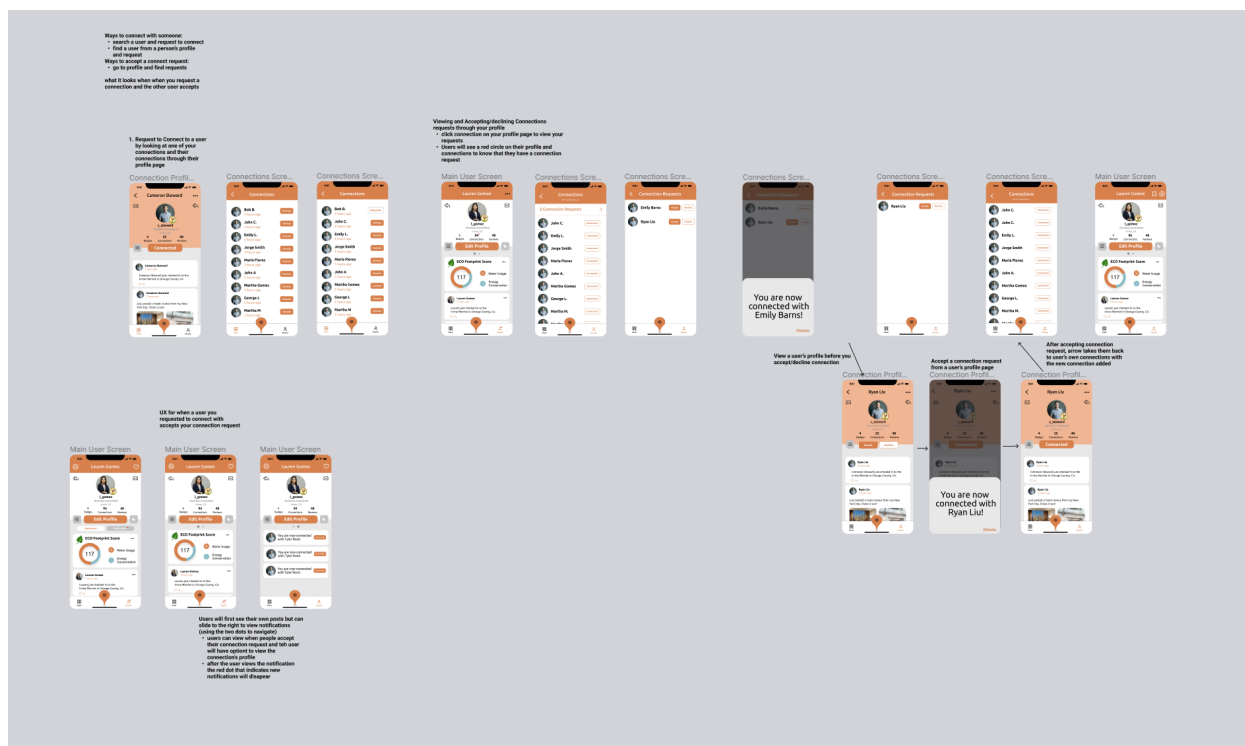
User Feed Mockup



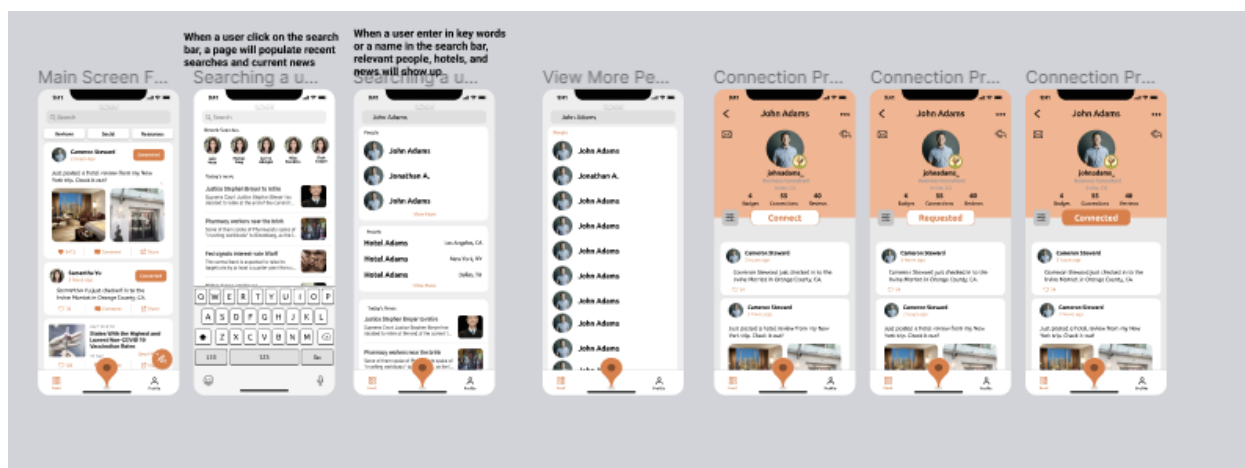
User Posts Mockup



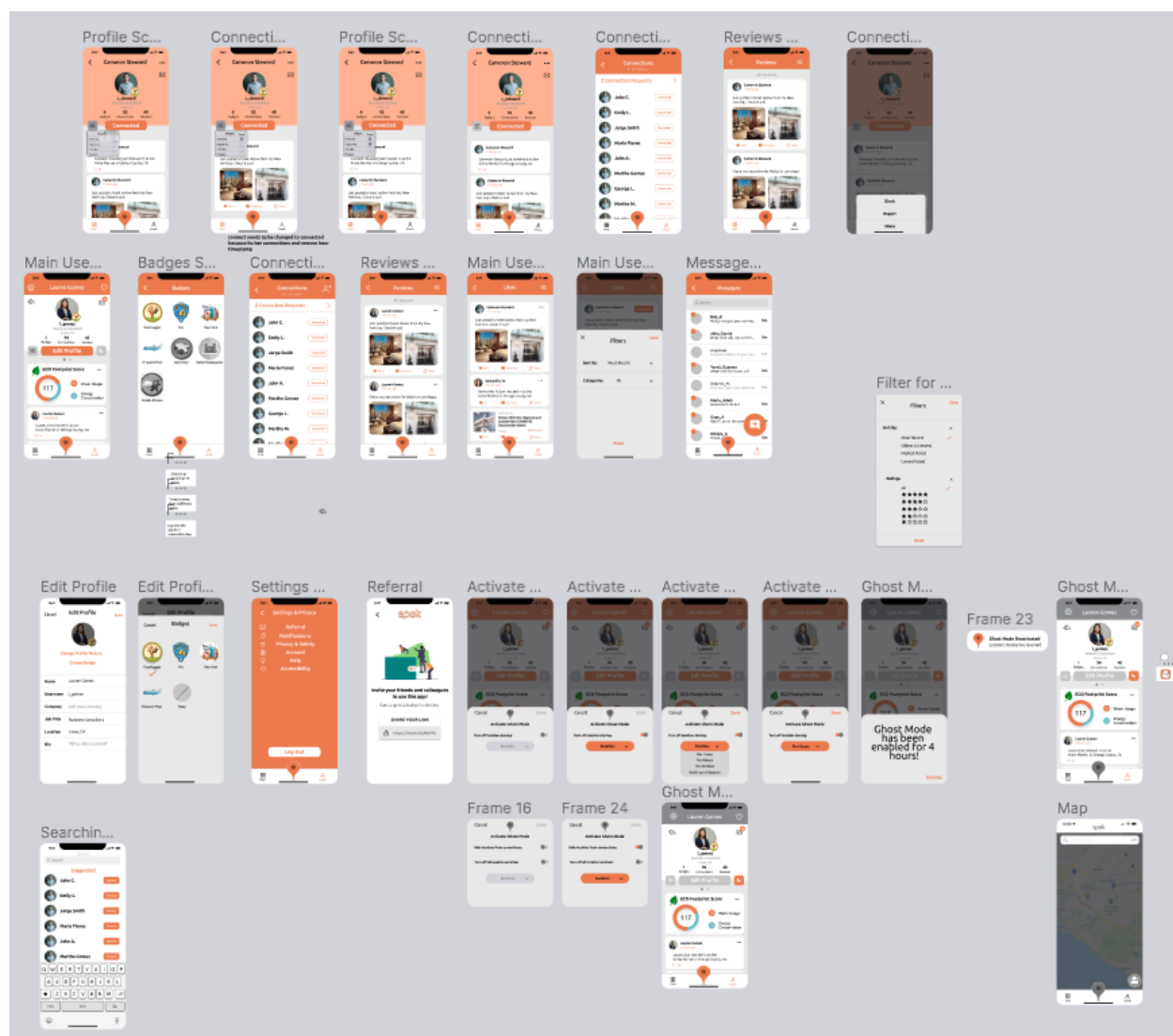
Connections Mockup



Search Functionality Mockup



User Profile and Badges Mockup



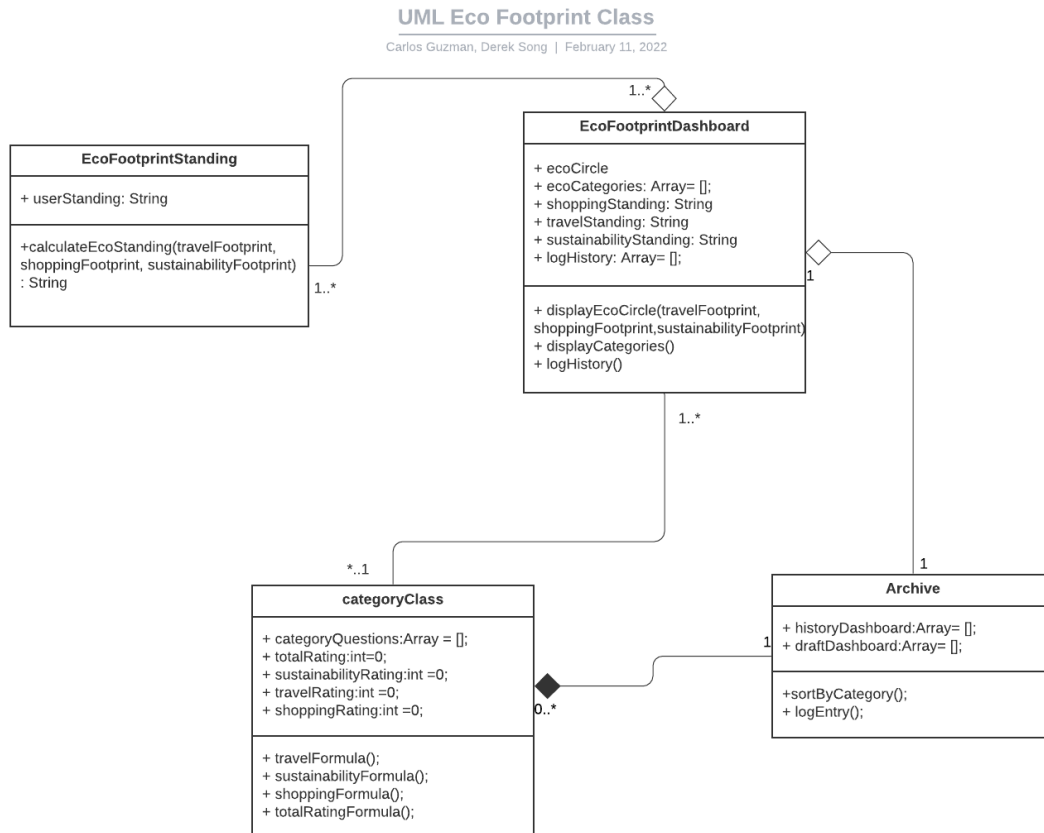
Eco Footprint Mockup



[Figma Prototype Link](#)

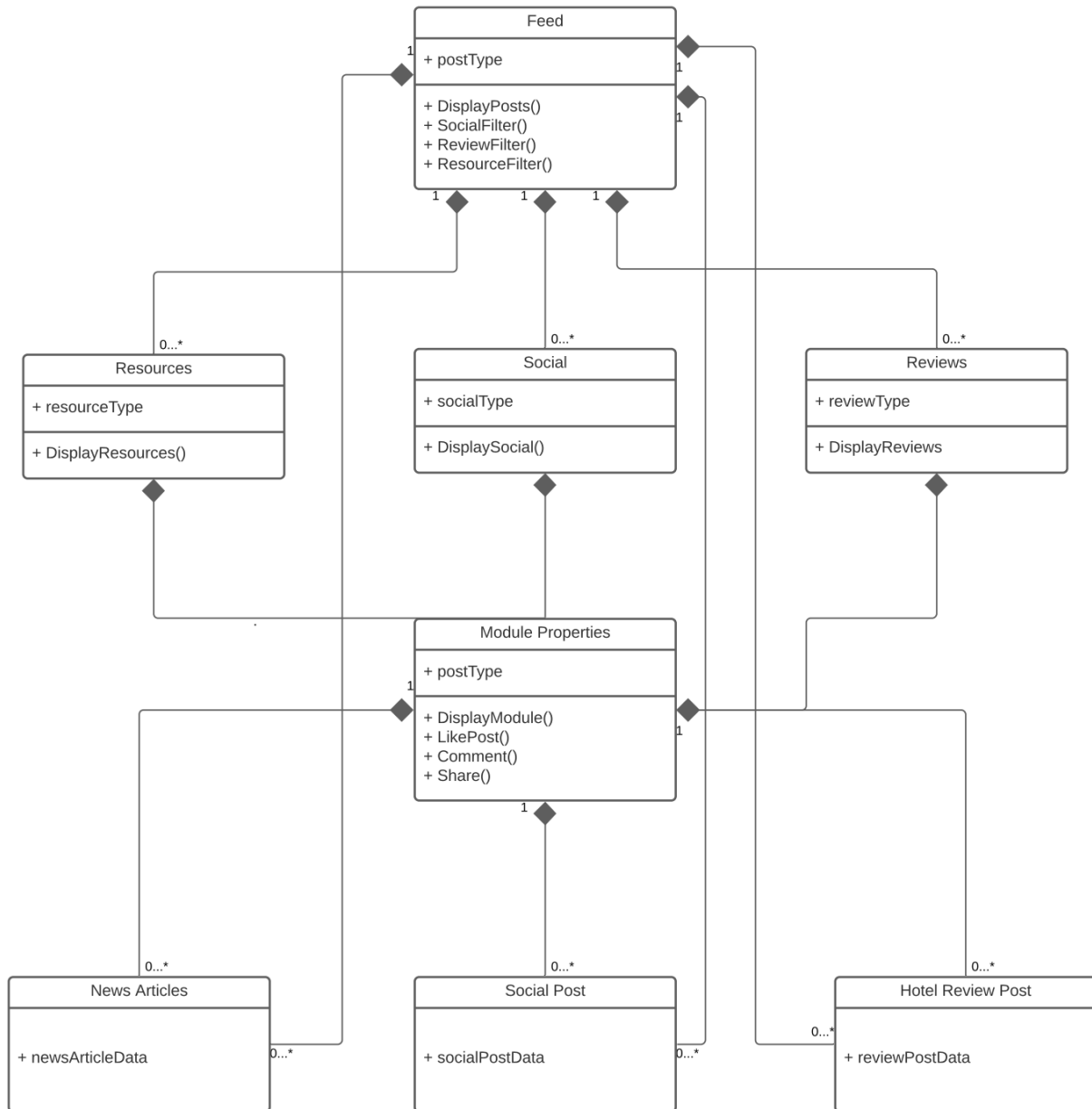
Section 3: Software Design

Eco Footprint UML Diagram



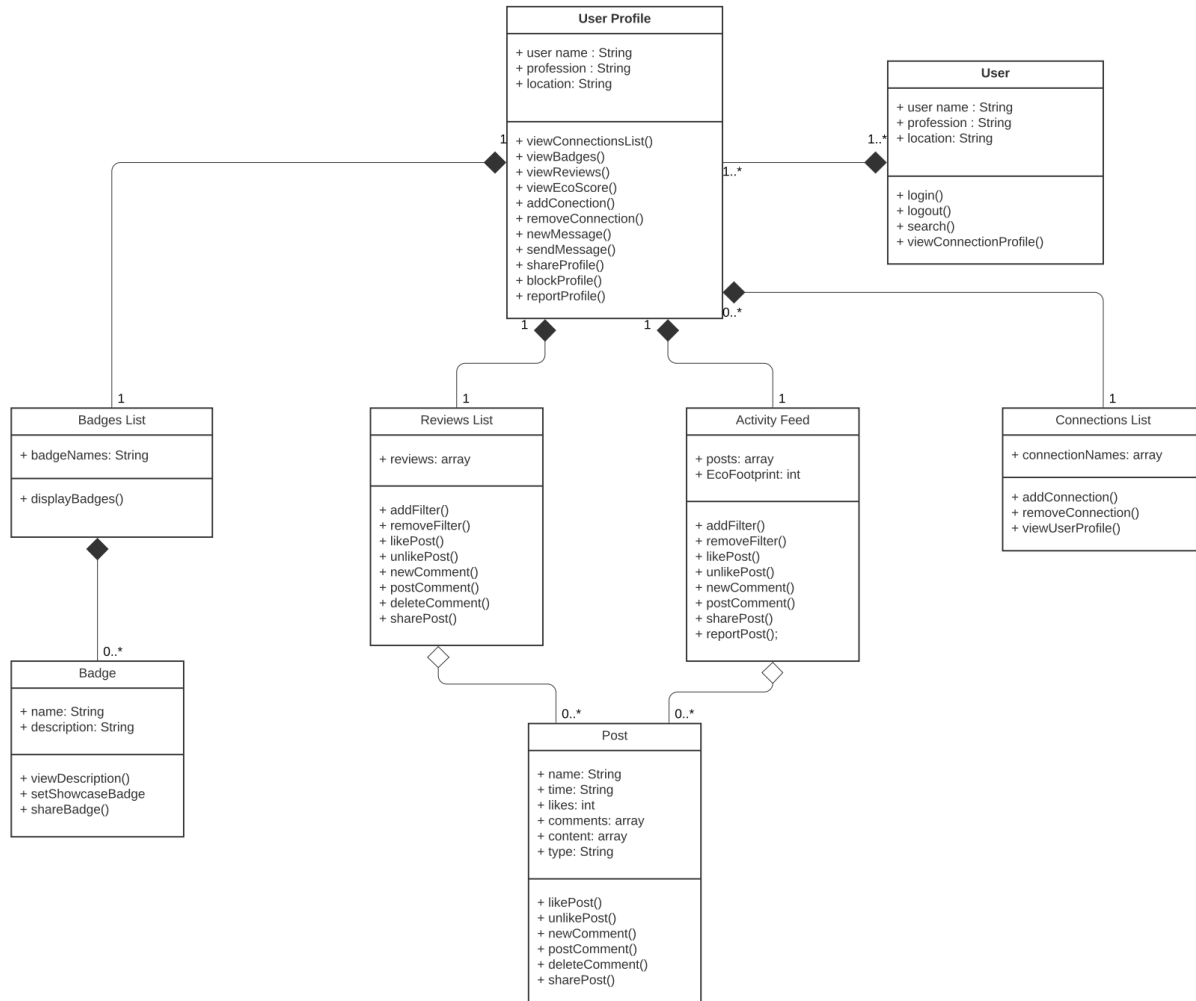
User Feed UML Diagram

The user feed UML diagram no longer needs to be updated as it will not be integrated into the Ionic Project.

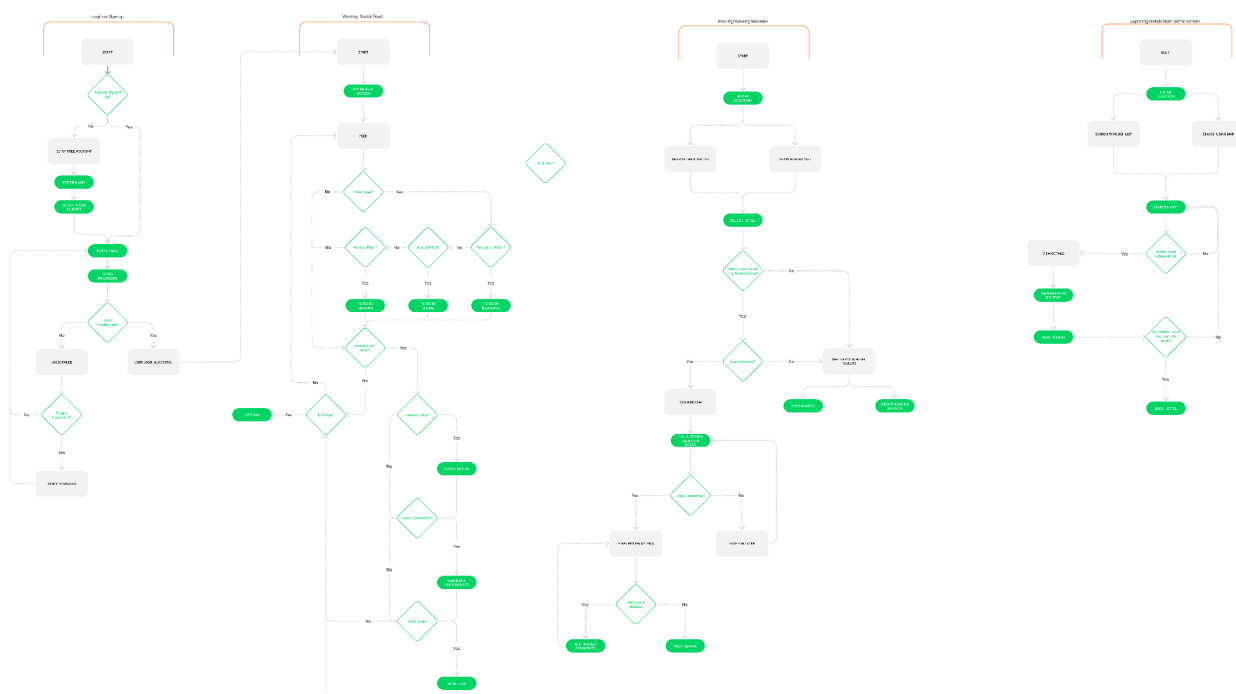


User Profile UML Diagram

The user profile UML diagram no longer needs to be updated as it will not be integrated into the Ionic Project.



User Flow Diagram



[User Flow Diagram Link](#)

Section 4: Deliverables Plan

Deliverable Item	Description	Deliverable Type	Current Status
User Personas	Description of what the ideal user of Spek would be including interests, touchpoints, and frustrations	PDF	Complete
Use Case Diagram	A diagram showing all relationships of the system	PNG	Complete
Eco Footprint UML Diagram	A UML diagram describing the relationship between the components within the Eco Footprint.	PNG	Complete
User Feed UML Diagram	A UML diagram describing the relationship between the components within the User Feed.	PNG	Complete
User Profile UML Diagram	A UML diagram describing the relationship between the components within the User Profile.	PNG	Complete
User Journey Map	Description of the steps, thought processes, and interactions potential users would experience utilizing the expected application	PDF	Complete
User Flow Diagram	A user flow diagram describing and showing the different paths users can through our system	PNG	Complete

Trello Board	Kanban board of all our user stories and actionable items	Link to Trello Board	In Progress
Figma Prototypes	A comprehensive collection of wireframes and prototypes for all features we created	Link to Figma Project and PDF - Figma File	In Progress
GitHub Repository	The repository containing all the code for our Ionic prototype	Link to GitHub repository	In Progress
Ionic Prototype	Files containing the Ionic codebase of the Eco Footprint feature using Angular framework, Typescript, HTML, and CSS	.zip File	In Progress
Requirements & Design Document	A comprehensive document detailing the process and deliverables throughout this project.	PDF	Complete

- figma design files on the github repository

brad github: steamboatbaker