

MeBalanced

A Healthy Lifestyle Coach



Mentor: Md Nazmul Hossain

Client: Dr. Okim Kang

Team Hive Thrive



Elijah Sprouse

Team Lead

Customer Communicator

ebs223@nau.edu



Benjamin Levine

Release Manager

bjl348@nau.edu



Andrew Velez

Recorder

ajv359@nau.edu



Latisha Talayumtewa

Architect

lt537@nau.edu



About Our Client



Dr. Okim Kang

United Way is an international non-profit organization that has divisions across the work

One of their key initiatives include positive youth development

Problem Introduction



Solutions

01



Utilize an AI Wellness Coach

Provide customized feedback, encouragement, and insight based on user behavior and emotional state

02



Incorporate Playful Aspects Into Self-Care

Creation of a virtual pet, reflecting the users progress

03



Provide Continuous Accessibility

Enable 24/7 progress availability through responsive design and caching functionality

Key Requirements Review

Gather Requirements

Our client expressed a need for a multitude of different features and fixes that the application needed

Performance Requirements

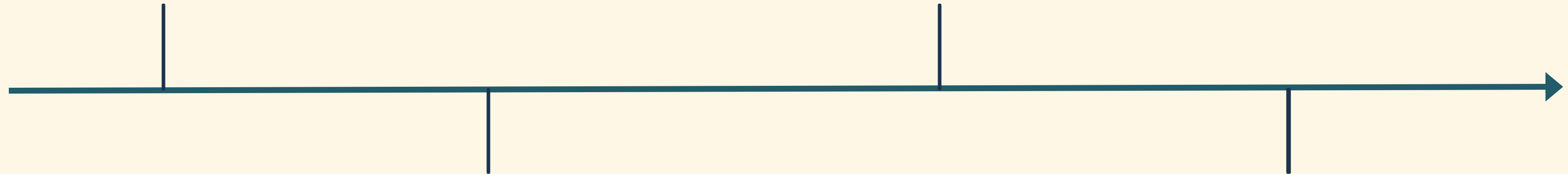
Our performance requirements include interface usability and quick check-in calculations.

Functional Requirements

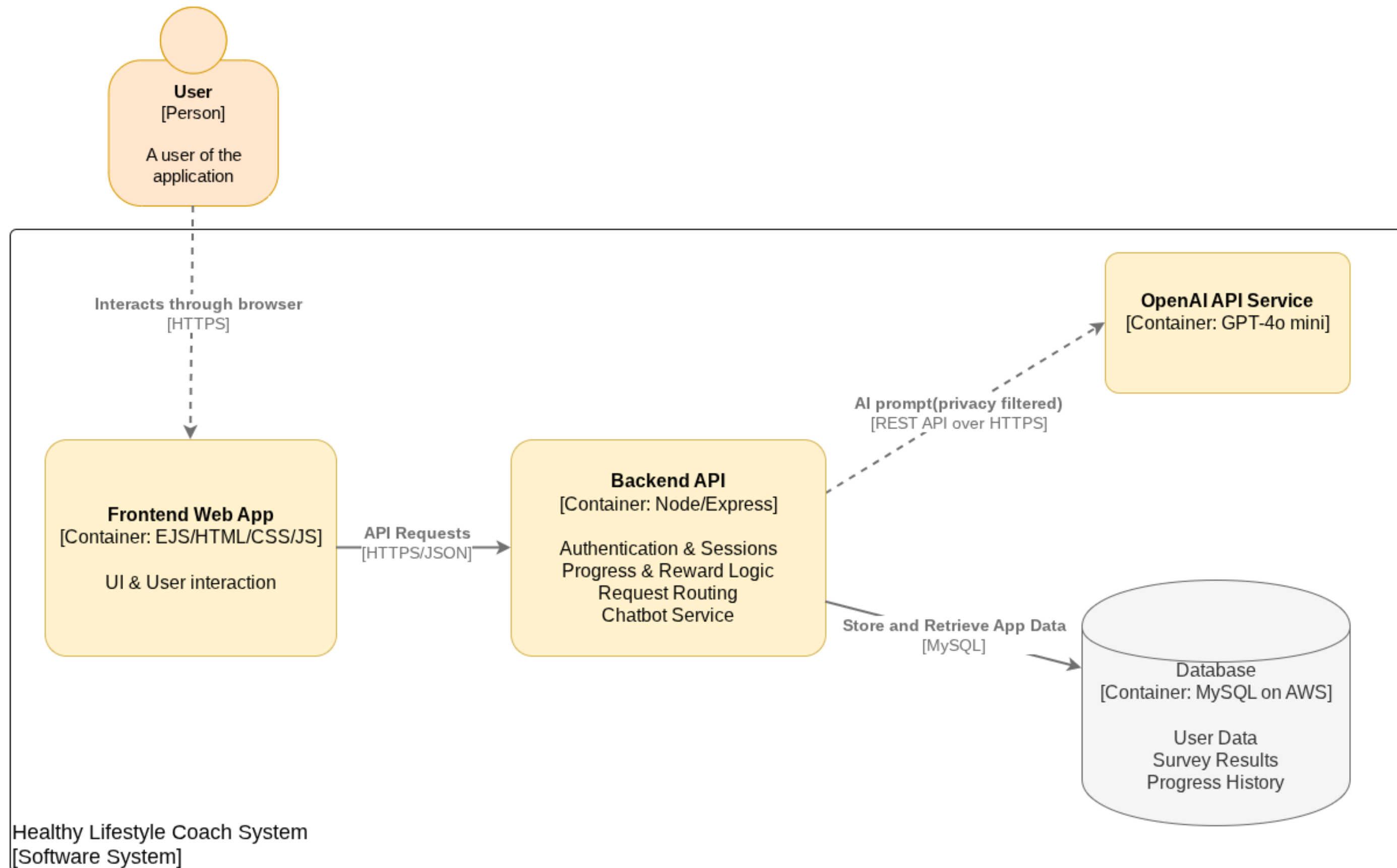
Our functional requirements included personalized coaching, daily wellness tracking, and security.

Environmental Requirements

Our environmental requirements include user security with email verification and safe use of OpenAI API.




Architecture and Implementation



Testing Plan

Quality Goals

 Correctness

 Reliability

 Usability

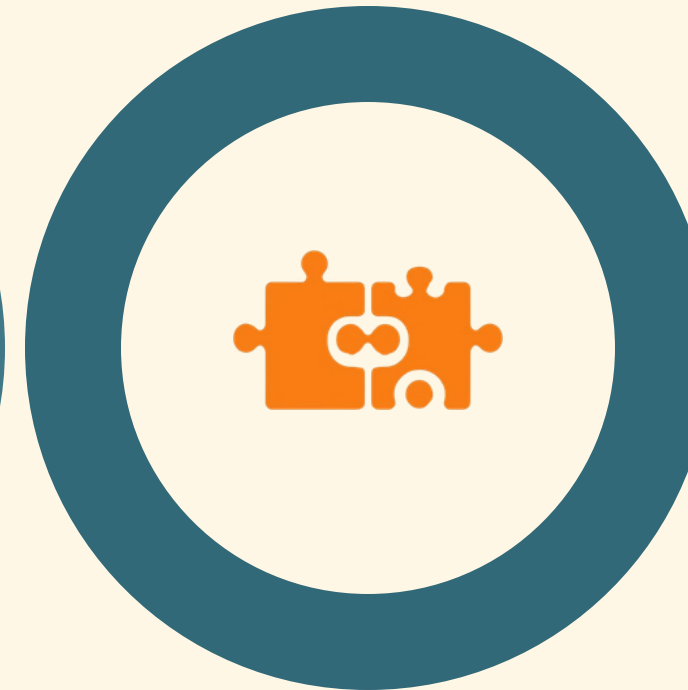
 Security



01

Unit Testing

- Check smaller parts of the system
- Using helper functions to confirm logic and functionality



02

Integration Testing

- Verify system components work together
- Frontend, backend, database, and AI API

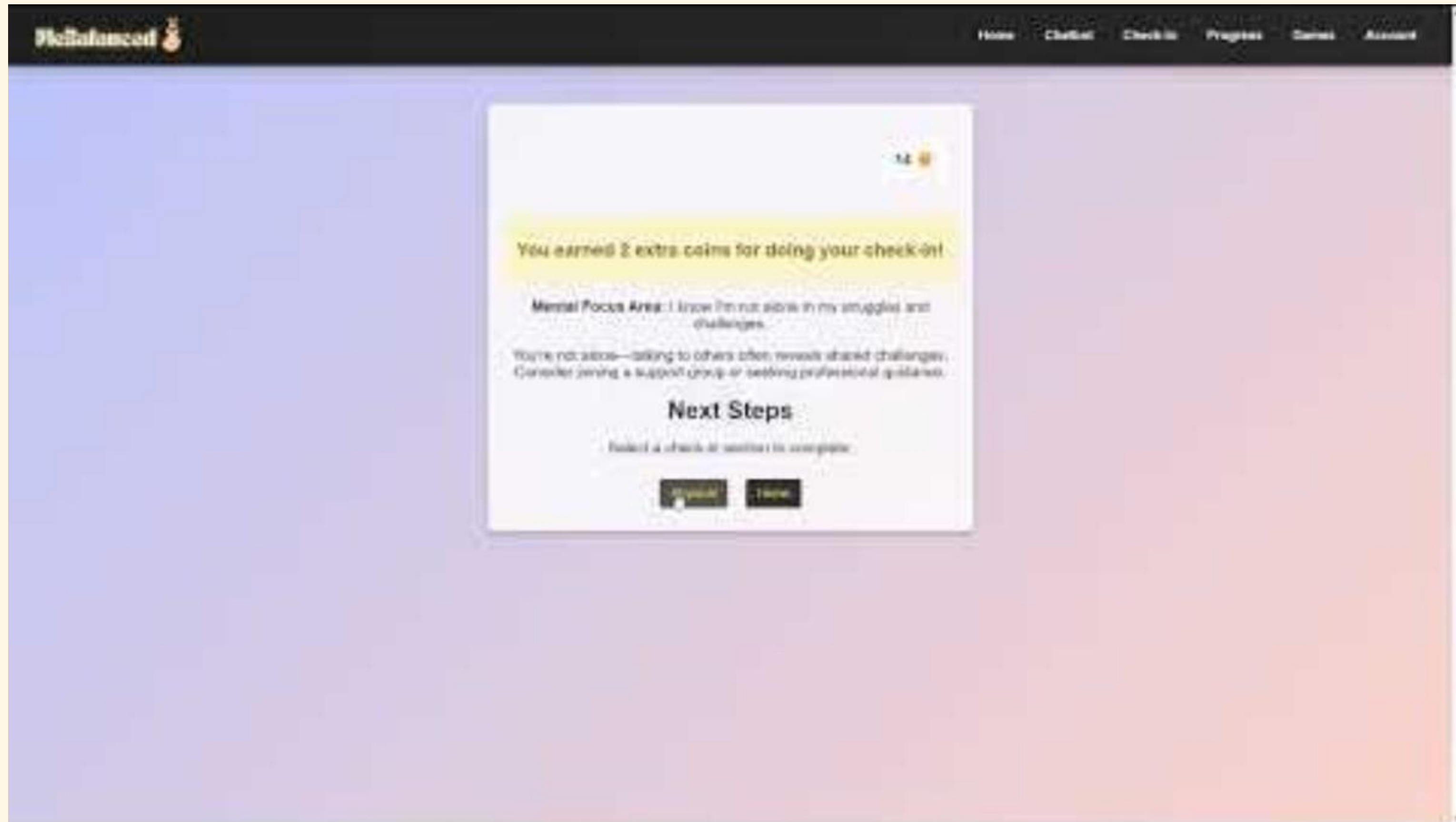


03

Usability Testing


- Test the app with real users
- Improve user experience and usage


Prototype Demonstration



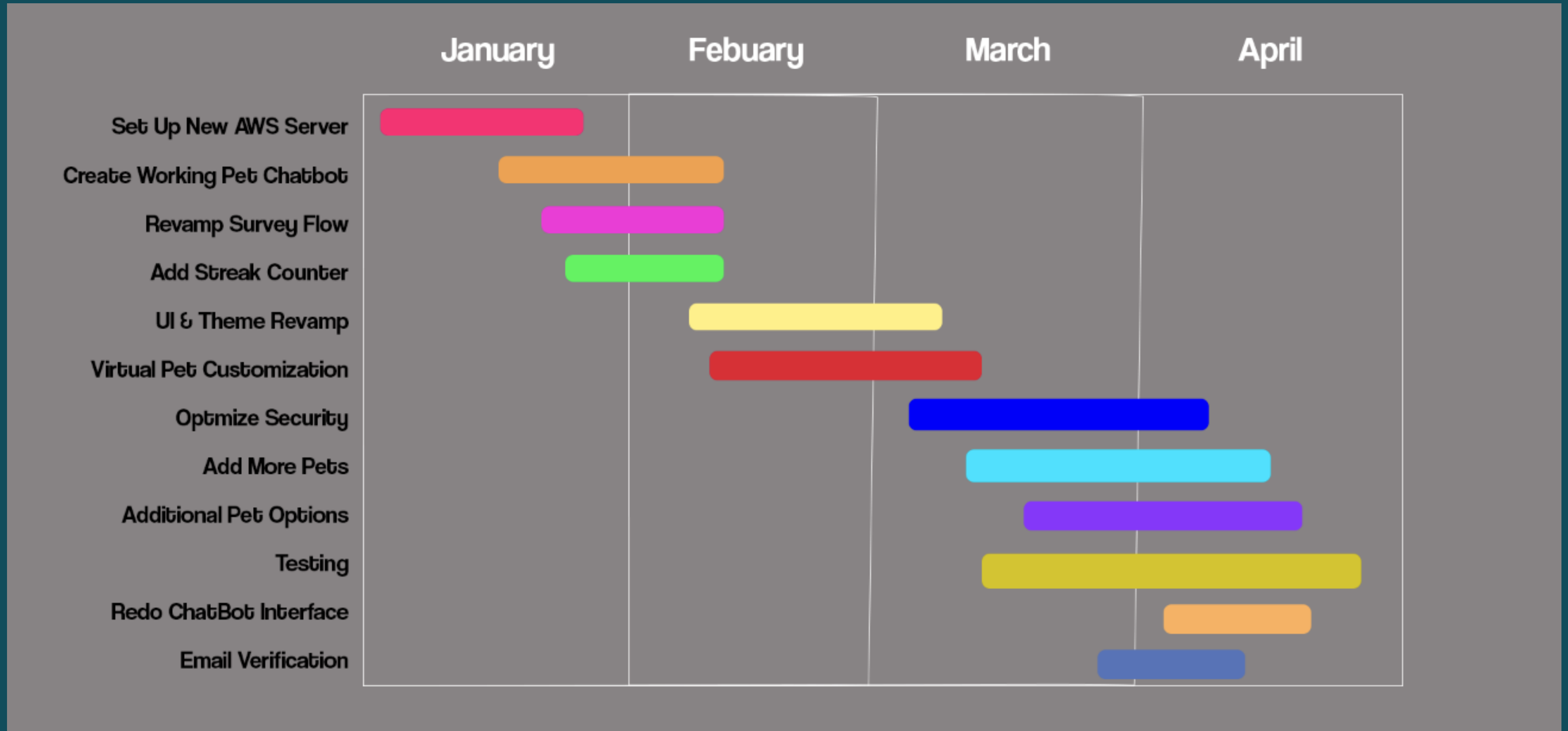
Challenges and Resolutions

Challenge		Solution
-----------	--	----------

 1	Page names were seen as too clinical	Edited names to make more friendly
---	--------------------------------------	------------------------------------

 2	Compressed screen (mobile) causes many visual issues	Changed how CSS and our partials worked depending on screen size
---	--	--

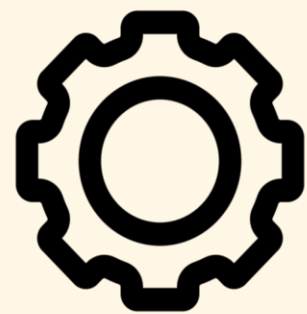
A Look Back



Future Work

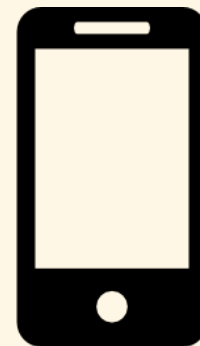
Additional Accessibility

- Offline Usability
- Customizable Settings



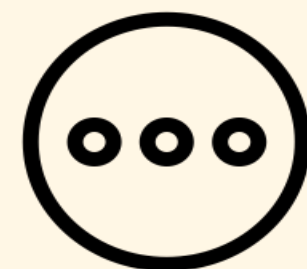
IOS/Android Portability

- IOS Store and Google Play
- Different Gamification Elements



More Customization Options

- More Pets
- More Pet Features



Thank You!