**Project Progress Report 2**  
**Team Name:** Feastly Development Team  
**Project Title:** Feastly (Recipe-App)  
**Date:** March 20, 2025  
**Group Number:** 18

**Group Members & Github usernames:**

* Roger Li (RogerLi-COSC)
* Sahil Modi (SwaFly)
* Troy Bello (troybllo)
* Samrat Gautam (sam200224 and sg19fp)
* Ridham Elhance (ridhue and 7091713)
* Abdelgelil Mohamed (mohammedswe)
* Michael Duru (DaRealMD)

**1. Project Overview**

Feastly continues to evolve as an interactive digital recipe and meal planning platform. In this phase, we focused on integrating the frontend with backend services, enhancing our UI/UX based on TA feedback, and preparing the groundwork for mobile responsiveness and AI-based features. The development team has worked collaboratively in sprints to implement core functionalities, refine features, and ensure system stability.

**2. System Progress and Screenshots**

**Recent Updates & Additions:**

* **Fully Functional Sign-Up/Sign-In System:** Integrated with Firebase Authentication
* **Profile Page Enhancements:** Added recipe history and saved recipes
* **Create Recipe Form:** Improved input validation and image handling
* **AI-Based Search Suggestion Framework:** Basic structure implemented (functionality in progress)
* **Responsive Design:** Started mobile responsiveness testing and tweaks
* **Improved Navigation:** Smooth transitions between pages and session-based redirection

**3. Implementation of the Software Engineering Process**

We are continuing with iterative development using sprint cycles. Each sprint includes planning, implementation, testing, and review phases. Feedback loops from TA meetings and internal demos are essential for course correction.

**Component Highlights:**

* **Home & Discovery Pages** – Updated layout and responsive grid (Roger, Troy)
* **Card Components** – Enhanced visuals and dynamic rendering (Michael, Sahil)
* **Backend Enhancements** – Added data validation and session persistence (Ridham, Abdelgelil)
* **About Page and UI Text Refinements** – Reviewed and updated for clarity (Samrat)
* **User Authentication & Routing** – Seamless user flow (Troy, Ridham)

**3.1 Sprint Overview**

**Sprint 7 (Feb 22 – Mar 1)**

* Finalized backend API structure
* Enabled real-time recipe updates from Firebase
* Added dynamic rendering of recipes

**Sprint 8 (Mar 2 – Mar 8)**

* Started integration of AI search component
* Mobile responsiveness improvements
* Testing user flows (Sign In, Create Recipe, Edit Profile)

**Sprint 9 (Mar 9 – Mar 17)**

* Refactored UI components for consistency
* Internal feedback session and user experience testing
* Optimized Firestore queries

**Sprint 10 (Mar 18 – Mar 25) (Ongoing)**

* Continued development of AI-based recipe suggestions
* Integrated advanced search filters (ingredient, time, dietary restriction)
* Preparing for beta testing phase

**4. Challenges Encountered**

* **Mobile Responsiveness:** Achieving consistency across screen sizes was more complex than expected. We’ve begun implementing media queries and testing on multiple devices.
* **State Management:** Managing component states across nested components required restructuring part of the app logic using context and hooks.
* **Firebase Query Limitations:** Encountered restrictions while implementing complex filters. Workarounds include restructuring the data for better query performance.

**5. GitHub Contributions**

Main development remains in the frontend and backend branches, with pull requests and merges handled collaboratively.

**Team Member Contributions (Updated):**

| **Team Member** | **Contributions** |
| --- | --- |
| **Samrat Gautam** | About Page refinements, organized internal review session, wrote new user stories, contributed to responsive UI styling |
| **Ridham Elhance** | Firebase queries, backend authentication, recipe upload functionality, finished backend functionalities. |
| **Mohamed A.** | Backend API improvements, Firestore optimization, helped with Create Recipe component, Testing. |
| **Michael Duru** | UI components (cards, buttons), visual polish for recipe display |
| **Sahil Modi** | Lead UI consistency revamp, fixed some UI/UX flows and bugs updated profile page layout, recipe filtering |
| **Roger Li** | Continued work on home/discovery page, routing fixes, research on mobile application & database. |
| **Troy Bello** | Implemented login/signup flow, sidebar navigation, Discovery Page, Mobile app development |

**6. TA Meeting Summary**

**Topics Discussed:**

* Reviewed current system integration and responsiveness
* Showcased profile and recipe creation workflows
* Discussed mobile design improvements and AI integration plans

**TA Suggestions:**

* Add filtering options for dietary preferences
* Ensure error handling for form inputs
* Improve visibility of recipe upload confirmations

**Action Items:**

* Implement real-time input validation
* Add category-based recipe filters
* Conduct accessibility check

**7. Next Steps**

* **Complete Sprint 10 tasks (AI filtering, mobile views)**
* **Sprint 11 Planning (Mar 26 – Apr 2)**
  + Conduct beta testing with selected users
  + Collect feedback and prioritize refinements
* **Add Unit & Integration Tests**
* **Finalize documentation for submission**
* **Prepare and rehearse final presentation**

A screenshot of a cell phone

AI-generated content may be incorrect.**Mobile Development:**

**Profile Page:**

The Profile Page of the user which displays their posts and saved posts. They have the option to edit their profile and view their posts.

A screenshot of a phone

AI-generated content may be incorrect.

**Discovery Page:**

Displays a discovery page with many options of food and filters. This is meant to help the user find new re. find new recipes and explore new delights!

**A screenshot of a phone

AI-generated content may be incorrect.Home Page:**

This is the Home Page, which displays a list of friends posts along with their stories and added filtering.

**Testing:**

Below are test cases for login and registration, these are unit tests to test certain cases to see if program fails. Integration testing was also implemented to ensure adding new features does not crash the current application

**A computer screen shot of a program

AI-generated content may be incorrect.**

**A computer screen shot of a program code

AI-generated content may be incorrect.**