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

**Group Members:**

* 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** | Led UI consistency revamp, updated profile page layout, recipe filtering |
| **Roger Li** | Continued work on home/discovery page, routing fixes |
| **Troy Bello** | Implemented login/signup flow, sidebar navigation, 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**