Magic Broom Cleaning-Service App  
  
Sprint 4 Plan

Completion Date: 03/30/2025

Completion Date: 01/30/2025

Goal

The goal of Sprint 4 is to finalize the rating and review system, improve cleaner-side order management, and implement performance optimizations. This includes refining the dashboard for cleaners, enhancing review credibility, and minimizing request processing delays.

Roles & Assignments

Shreyas Shrestha (Full-Stack Developer, Scrum Master): Backend optimizations and order management improvements.  
Eric Yu (Frontend Developer): UI refinements for cleaner dashboard and user review display.  
Kevin Cai (Backend Developer): Database performance tuning and review filtering logic.  
Yuan Shi (QA Engineer): Load testing for order processing and UI verification.

Eric Yu (Frontend Developer): UI/UX design for login, navigation implementation Kevin Cai (Backend Developer): Database schema, authentication endpoints Yuan Shi (QA Engineer): Unit tests for authentication and navigation

User Stories & Tasks

- As a customer, I want to see verified cleaner reviews so that I can make informed decisions. (Story Points: 5, Priority: High)  
 - Implement review verification to filter spam/fake reviews (2 hours)  
 - Improve review sorting based on credibility (2 hours)  
 - Update cleaner profile UI to enhance review display (2 hours)  
  
- As a cleaner, I want an improved dashboard so that I can manage my orders efficiently. (Story Points: 8, Priority: High)  
 - Enhance dashboard UI for better order visibility (2 hours)  
 - Optimize order management logic for faster updates (2 hours)  
 - Implement real-time notifications for order status changes (2 hours)  
 - Test and refine dashboard interactions (2 hours)  
  
- As a user, I want smoother interactions so that I can use the app without delays. (Story Points: 5, Priority: Medium)  
 - Optimize Firestore queries for reduced load time (2 hours)  
 - Improve caching strategies to reduce redundant queries (2 hours)  
 - Implement UI optimizations to minimize unnecessary re-renders (2 hours)  
 - Conduct performance testing and debugging (2 hours)

Tasks:

Design Database Schema for User Accounts (2 hours)

Implement Email & Password Registration Flow (2 hours)

Implement Social Login (2 hours)

Create Frontend Registration UI (2 hours)

Implement Backend Validation & Security Measures (2 hours)

- As a user, I want to log into my account quickly and securely so that I can resume my activities. (Story Points: 5, Priority: High)

Tasks

Implement Email & Password Login Flow (2 hours)

Integrate Social Login for Authentication (2 hours)

Implement “Remember Me” and Session Expiration Handling (2 hours)

Create Frontend Login UI (2 hours)

- As a user, I want an intuitive app layout with clear navigation so that I can easily access different features. (Story Points: 5, Priority: Medium)

Tasks:

Define Navigation Flow and App Structure (2 hours)

Implement Navigation Components (Sidebar, Tabs, Menu, etc.) (2 hours)

Optimize Navigation Performance (2 hours)

- As a user, I want to receive clear error messages if my login or registration fails so that I can resolve the issue. (Story Points: 3, Priority: Medium)

Tasks:  
Define Standardized Error Messages (2 hours)

Implement Error Handling in Backend (2 hours)

Update Frontend UI to Display Errors Clearly (2 hours)

Scrum Board

To-Do  
- Review verification system  
- Enhance cleaner dashboard UI  
- Optimize order management logic  
- Implement caching strategies  
  
In-Progress  
- UI refinements for cleaner-side dashboard  
- Firestore query performance improvements  
- Load testing for order processing  
  
Done  
- Performance testing setup  
- Backend optimizations for database queries

Backend setup (Firebase, database schema)

User registration API development

User authentication (email, social login)

Frontend UI design & implementation

Implement navigation flow Unit tests for authentication Error handling & validation Debugging & testing

Scrum Meetings

- Monday (online) @ 2:00-3:00 pm  
- Wednesday (online) @ 5:00-7:00 pm  
- Friday (in-person) @ 3:00-4:30 pm

Tuesday (online) @ 5:00-7:00 pm

Burnup chart