**Magic Broom Cleaning-Service App  
Sprint 2 Report  
Completion Date: 02/15/2025**

### **Sprint Overview**

The objective of Sprint 2 was to enhance the functionality of the Magic Broom app by implementing features related to request management, user profile setup, and the plan tab for managing cleaning service requests. The team successfully developed a system allowing users to create, accept, and delete requests while improving UI and backend interactions.

### **Completed Work**

#### **1. Request Feature Implementation**

* Users can now **submit service requests** for cleaning services.
* Backend processing allows **request storage and retrieval** in Firestore.
* Implemented validation to ensure requests contain necessary details (location, date, time, notes).
* Users receive **confirmation messages** after submitting a request.

#### **2. Accept and Delete Requests Functionality**

* Users can view their pending requests and **accept or delete** them as needed.
* Implemented **real-time updates** so that request statuses change dynamically.
* Backend API supports **request deletion**, ensuring seamless data removal.
* Improved UI to **display request status** clearly, allowing easy decision-making.

#### **3. Profile Page Setup (Needs Further Detailing)**

* Users can now access their **profile page** for account management.
* Profile page includes **user details, profile picture upload, and update options**.
* Firebase Authentication integrated for **user session persistence**.
* Future work includes **enhancing user information fields** for a more detailed profile experience.

#### **4. Plan Tab for Request Management**

* Created a dedicated **Plan Tab** where users can manage their requests.
* Users can **accept, reject, or delete** requests from this tab.
* Integrated a **refresh feature** to update request lists dynamically.
* Improved **UI consistency** for better navigation and usability.

### **Challenges & Improvements**

* **Authentication Handling:** Some users experienced session logout issues, which were fixed by refining Firebase authentication logic.
* **Firestore Query Optimization:** Improved database queries to **reduce load time** when fetching user-specific requests.
* **UI Enhancements:** Adjusted layout for the **profile and plan tabs** to ensure a smoother user experience.
* **Bug Fixes:** Fixed issues related to **request deletion and real-time updates** not reflecting immediately.

### **Next Steps for Sprint 3**

1. **Enhance Profile Page** with more detailed fields and settings.
2. **Enable Notifications** for real-time updates on request status changes.
3. **Cleaner-side** for accepting orders and declining orders.
4. **Introduce Ratings & Reviews** for service providers.
5. **Optimize Performance** to further reduce request handling delays.

### **Conclusion**

Sprint 2 successfully introduced **core request management features**, improved **user interaction flows**, and enhanced **the profile and plan tab functionalities**. The focus for Sprint 3 will be to expand user engagement by implementing a **booking system, notifications, and ratings** to improve service quality.

**Team Contributions:**

* **Shreyas Shrestha:** Backend development for request handling and Firestore integration.
* **Eric Yu:** UI development for request features and profile page setup.
* **Kevin Cai:** Database query optimization and request deletion API.
* **Yuan Shi:** QA testing for request creation, deletion, and real-time updates.

**Burnup chart**

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