**Sprint 3 Report:**

Product: RetailGo

Team: The RetailGo Team

Date: 11/22

• **Actions to stop doing:** *N/A. We have been largely satisfied with our process during this Sprint - for example, strictly maintaining branches and only accessing the main branch via pull requests has ensured we did not have any time-consuming merge conflicts this sprint.*

• **Actions to start doing:** *The team should stop creating high-level tasks, and instead granularize these tasks, since we found that high-level tasks can often result in unexpected complexity and needing new design work. This would also allow for more accurate workload estimation.*

• **Actions to keep doing:** *This sprint we were highly synced through regular and orderly scrum meetings which helped us coordinate dependencies much faster. The team kept the scrum master in the loop constantly, which helped adjust our plan as needed.*

### Work completed/not completed:

***User Story 1:*** As an employee, I want to be able to process client transactions in the store, so I can process sales. (Completed)  
  
 - Search Inventory by Name/Product ID (Completed)  
 - Unit Test POS Routes (Not Completed)  
 - Test POS Page/Inventory (Completed)  
 - Integrate Stripe API (Completed)  
  
***User Story 2:*** As an employee, I want to be able to customize the POS interface to my store, so I can improve my efficiency. (Not Done - moved to Sprint 4)

***User Story 3:*** As an owner, I want to be able to manage my employees so that there’s no unauthorized access to my store inventory or POS (Not Completed - of 12 planned ideal work hours, ~9’s worth of tasks are completed)  
  
 - Employee Management UI/UX Design/Plan (Completed)  
 - Employee Management Frontend (Completed minus backend integration)  
 - Employee Management Backend (Completed)

***User Story 4:*** As an owner, I want to better understand my store sales and stocks, so that I can improve sales. (Not Completed)  
  
 - Dashboard (Completed)  
 - Create Image Upload (Moved to next sprint; Not Completed)  
 - Implement collaborative filtering recommendation engine (Moved to next sprint; not completed)  
  
***Extra Tasks (Infrastructure/Not aligned with an individual user story):***   
 - Perform Static Analysis for Backend (Completed)  
 - OpenAPI Compliance (Not Completed)  
 - Host backend (Completed)  
 - Complete and Finalize Backend Unit Tests (Completed for inventory backend;   
 not for POS)  
 - Database Redesign (Completed)  
 - (Additional - not considered in Plan) Refactor Fetching code to use ReactQuery   
 For successful integration of backend and frontend w/o global state  
 Management. (Completed)  
 - (Additional - not considered in Plan) Integrate Backend/Frontend for Inventory  
 View using ReactQuery (Completed).  
 - (Additional) Implemented Redis-based Task Queue Pipeline to ensure no users  
 register without a store. (Completed)

• Work completion rate:

**Total number of user stories completed during the prior sprint:** 1

**Total number of estimated ideal work hours completed during the prior sprint:** 106.

**Total number of days during the prior sprint:** 14

**For the previous sprint, the user stories/day**: 0.07.

**And ideal work hours/day:** 7.57

**Average user stories/day:** 0.07\*

**Average ideal work hours/day:** 4.4

