

## Plan

### Project Plan

**Team:** 4 Programmers (Mathews Pastor, Joseph Medina , Arelys Otavalo, Maryuri Quiña)

Total Duration: 5 weeks (Oct 10 - Nov 11)

### Week 1: (Oct 10 - Oct 16) - Sprint 0: Planning and Design

- Task (All): Requirements Analysis (Study Proritized Features.docx).
- Task (All): Architecture Design (Decision on MVC, Hybrid JSON+CSV persistence, data/ and utils/ folders).
- Task (All): UML Class Diagram Creation and API definition for the classes.

### Week 2: (Oct 17 - Oct 23) - Sprint 1: Structure and Persistence

Mathews Pastor (Tech Lead): Commit 1: Program the FinvoryApp, FinvoryController, FinvoryView skeleton.

- Joseph Medina: Program all POJO Models (the 15 classes: Address, Customer, Product, etc., attributes and constructors only).
- Arelys Otavalo: Program Database.java (the load/save JSON logic) and FinvoryData.java.
- Maryuri Quiña : Program Database.java (the load/save CSV logic for Clients and Suppliers).

### Week 3: (Oct 24 - Oct 30) - Sprint 2: High-Priority Features

Mathews Pastor: Commit 3: Refactor Product and Inventory (stock to HashMap). Program handleCreateInventory (Feature 8-Low).

- Joseph Medina: Implement the handleNewSale flow (client search, add products, reduce stock) (Feature 2-High).

- Arelys Otavalo: Implement Obsolete Inventory management (handleProcessReturn, handleManageObsolete) (Feature 4-High).
- Maryuri Quiña: Implement Tax logic (handleSetTaxRate) and the Revenue Dashboard (getTotalGross..., handleReports) (Features 1 & 3-High).

### **Week 4: (Oct 31 - Nov 6) - Sprint 3: Medium and Low-Priority Features**

Mathews Pastor: Commit 5: Implement the Pricing Algorithm (getPrice(), handleSetPriceAlgorithm) (Feature 5-Medium).

- Joseph Medina: Implement the 3 Reports logic (handleSalesReport, handleCustomerReport, handleSupplierReport) (Feature 6-Medium).
- Arelys Otavalo: Implement Accounts Receivable (Post-Dated Check logic, handleRegisterPayment) (Feature 7-Low).
- Maryuri Quiña: Implement the full CRUD (Edit, Delete) for Clients and Suppliers (Usability feature).

### **Week 5: (Nov 7 - Nov 11) - Sprint 4: Closure, Roles, and Validation**

Mathews Pastor: Commit 7: Implement the Login and Roles logic (Admin/Personal), including the new menus and the main run() method.

- Joseph Medina: Implement CRUD (Edit, Delete) for Products and add Integrity Validation (do not delete if in use).
- Arelys Otavalo : Implement all Format Validation (Regex, non-negative) in FinvoryView.java and test for uniqueness (ID/Barcode).
- Team 4: Full system integration testing (test end-to-end flows), code cleanup (remove comments, TODOs), and preparation of the User Manual and the 7 commits for GitHub.

**Nov 11:** Final Prototype.