

Smart-Inventory

Demo 3



Our Client

Amazon Warehouse Services

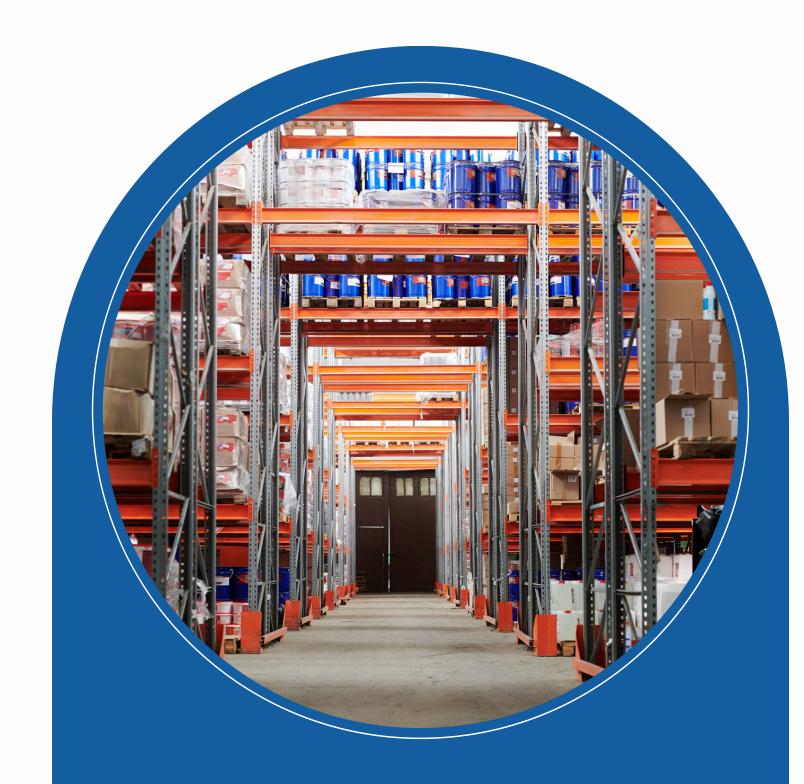
About Smart Inventory

What is Smart Inventory?

Smart Inventory is a user-friendly, web-based application that streamlines and automates core inventory processes.

Who?

- Business Owners/Managers (Administrators):
- Employees (Inventory Controllers/End-Users):



Links To Documentation



ReadMe

Requirement Specification

Architectural Specification

Design Specification

User Manual

Coding Standards

Testing Policy

Installation Manual

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Subsystems

- 1. Authentication and Authorization Subsystem
- 2. Team/User Management Subsystem
- 3. Reporting Subsystem
- 4. Inventory Management Subsystem
- 5. Stock Request Subystem
- 6. Supplier Management Subsystem
- 7. Order Placement Subsystem

Major New Features

- Order Placement
- Order Management
- Web portal
- Low stock event handling
- Automated ordering
- Inventory report(Metrics, Graphs, etc.)
- Supplier report(Metrics, Graphs, etc.)
- Activity report(Metrics, Graphs, etc.)
- Supplier communication

Features to finish

- Dynamic graphing for reporting
- Real time notifications for real time reports and autonomous ordering decisions
- Overall beautify of UI
- Automation Machine Learning algorithm to:
 - Work out best supplier
 - Predict inventory deficits
 - Order the predicted deficits ahead of time saving costs of orders

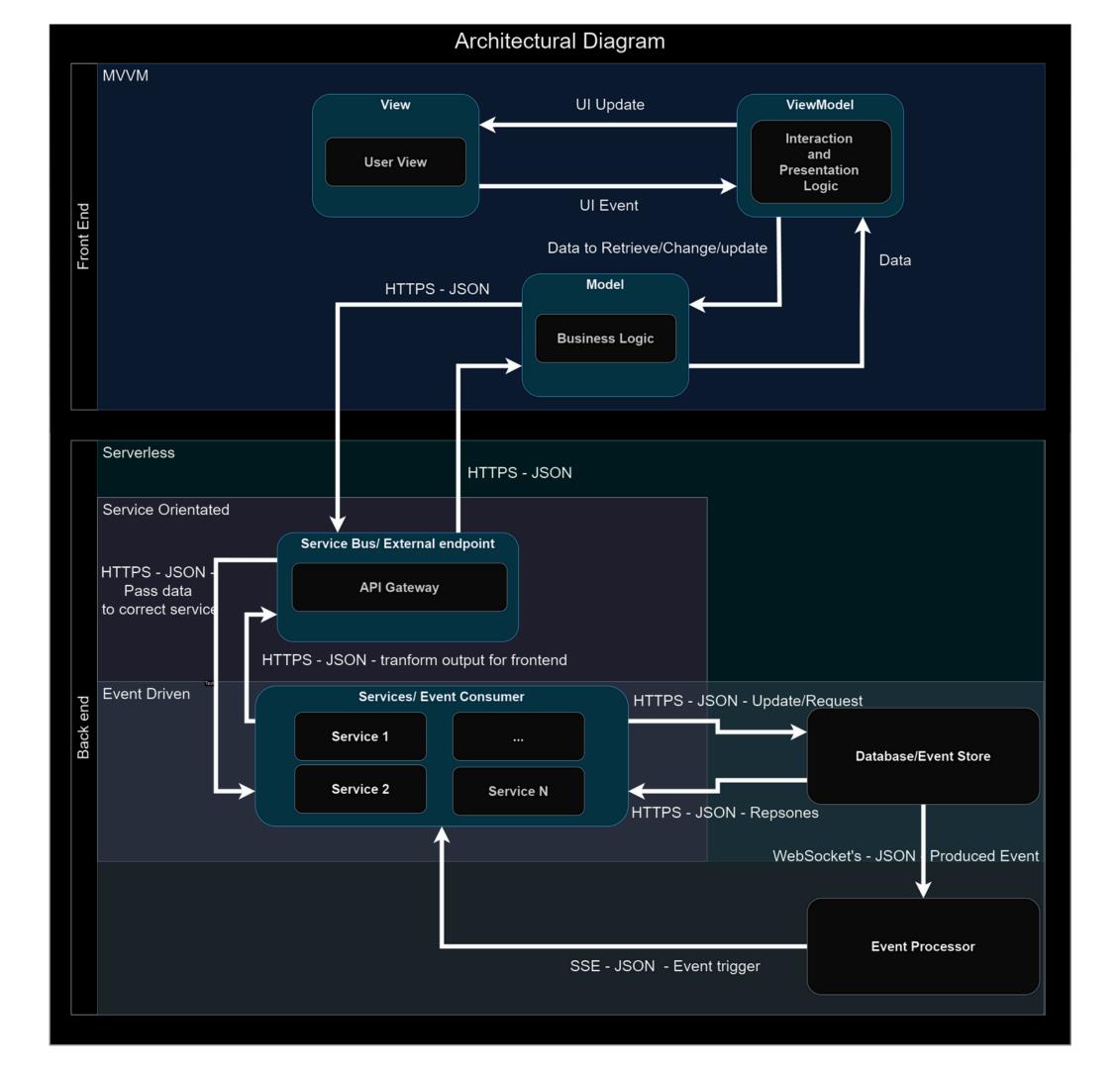
Architectural Design

Quality Requirements

- Reliability
- Scalability
- Security
- Usability
- Maintainability

Architectural Contraints

A core architectural constraint for this project is the requirement to utilize only open-source libraries.

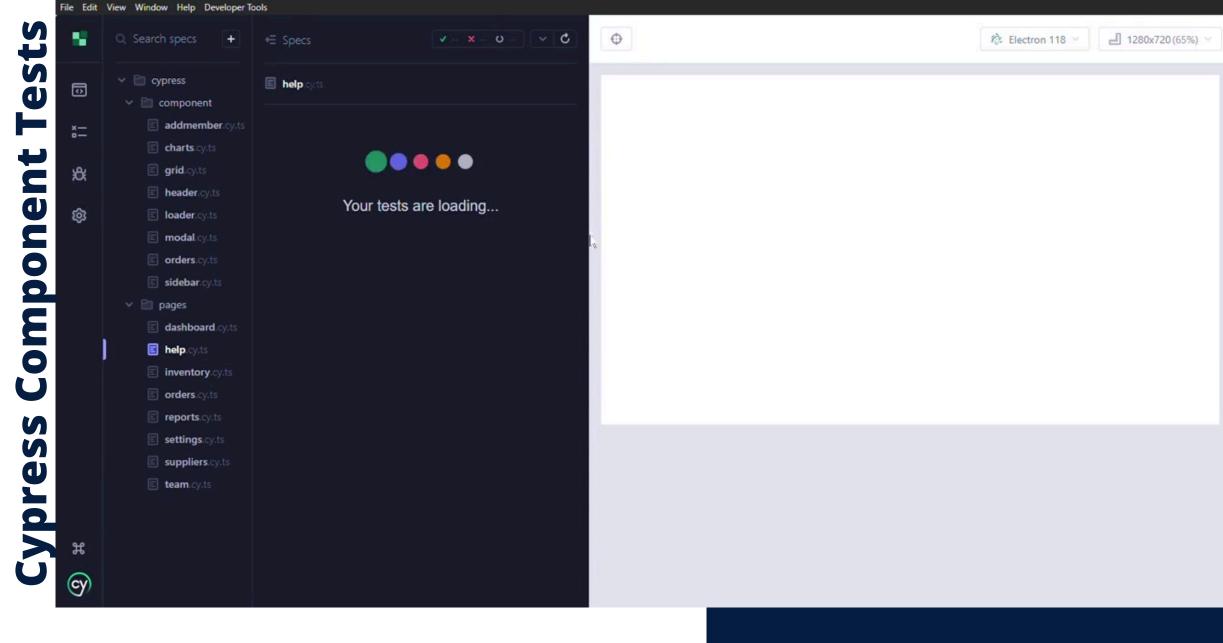


Architectural Styles

- Model ViewViewModel(MVVM)
- Service-Oriented
 Architecture (SOA)
- Event-Driven Architecture (EDA)
- Serverless Architecture

Tests - Cypress

Cypress E2E





Deployment

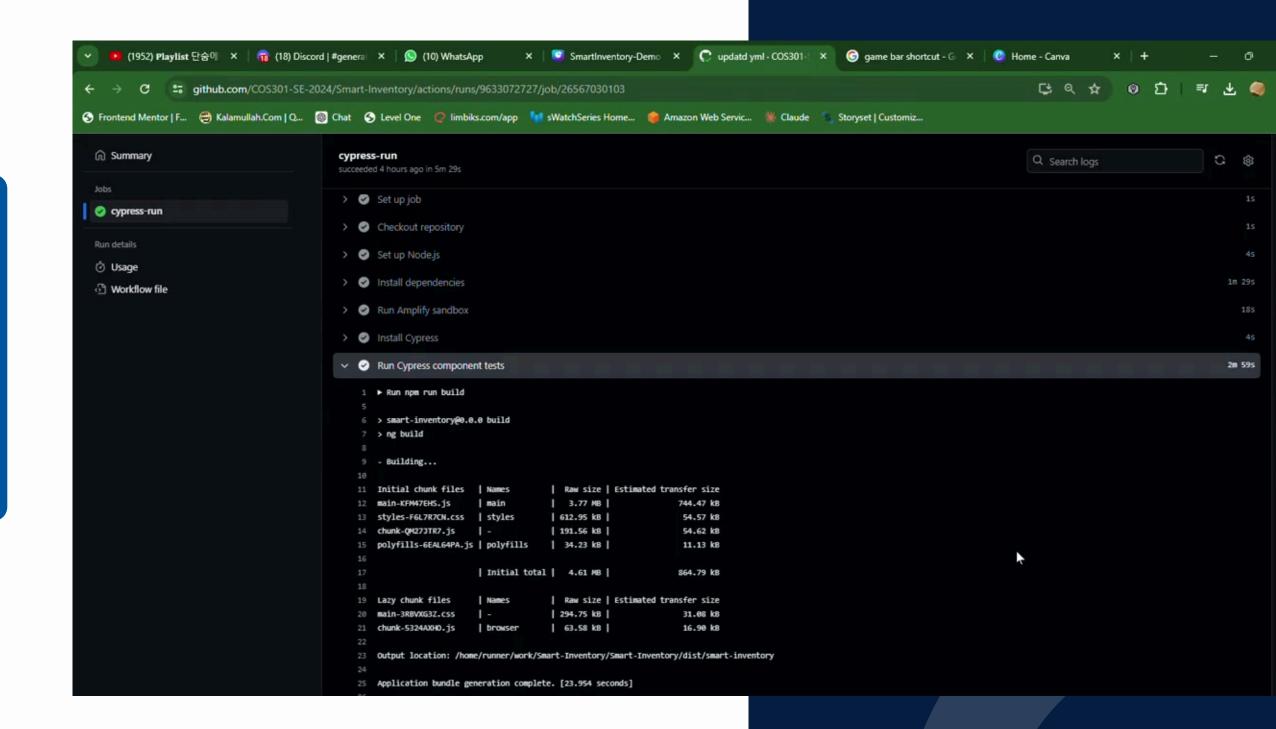
Deployment

- Set Trigger to deploy on push to main.
- Preview deployments through amplify sandbox to help enhance
 API and web app testing, creation and maintenance.

Testing

Tests

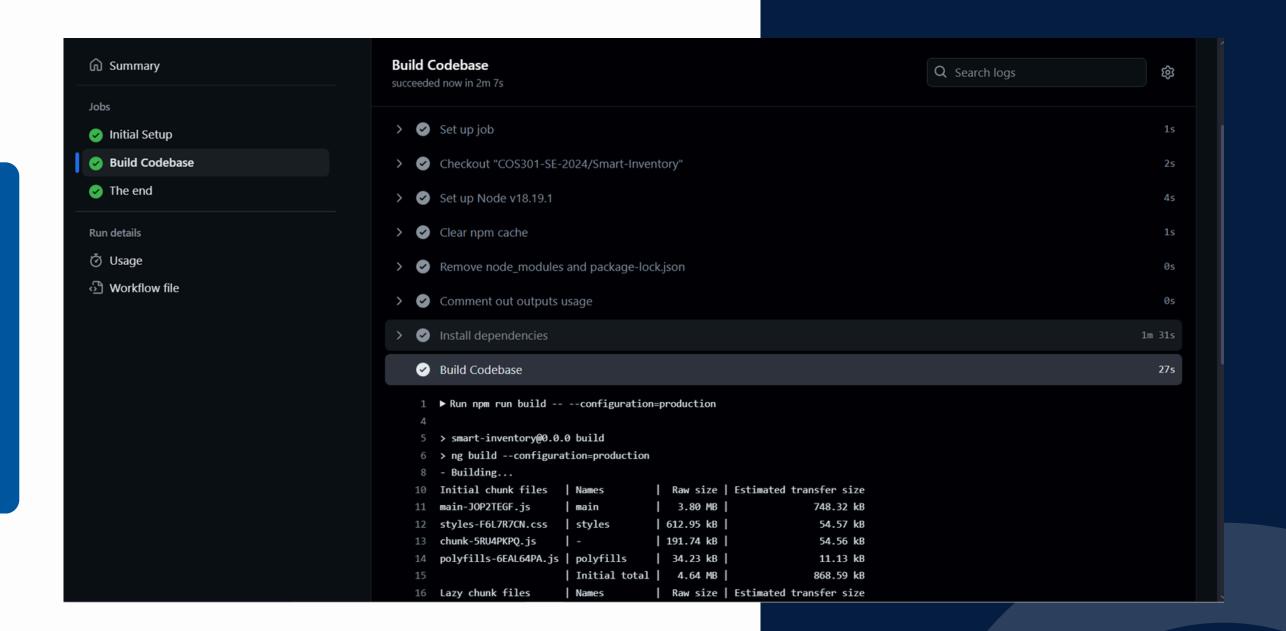
- Set Trigger on merge to all main and develop.
- When the trigger event is triggered it will run unit tests and e2e tests.



Linting

Linting

- Set Trigger on merge into main and develop.
- The automated linter ensures:
 - No syntax errors.
 - No coding standards violations.
 - Styling is readable.



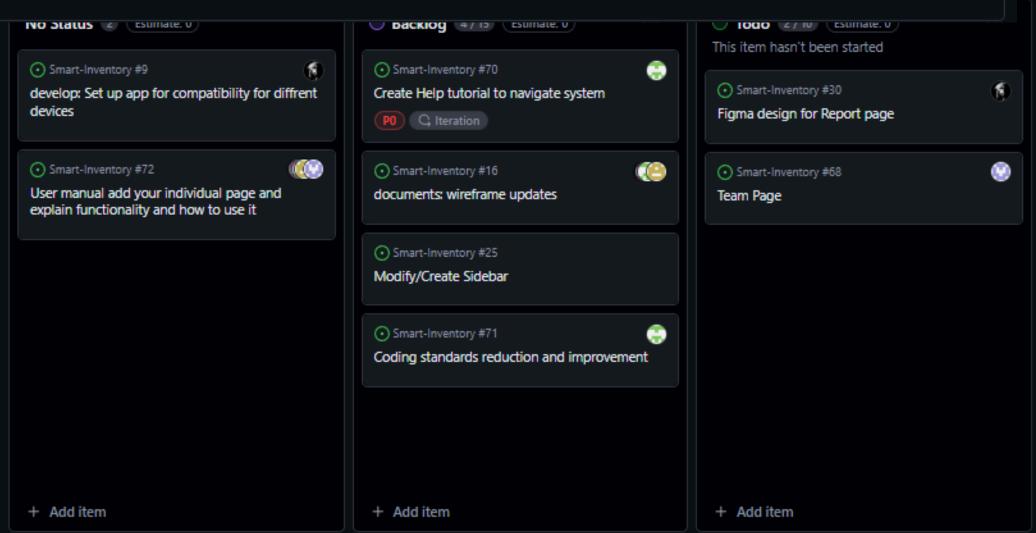
Building

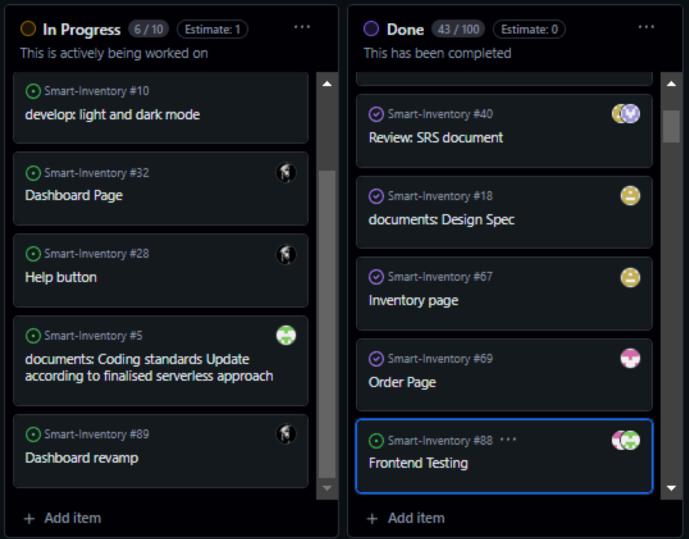
Building

- Set Trigger to build on push to main or develop branch.
- This helps ensure that no issues are around before the web app is deployed.

bug o testing o develop o figma design o No Labels o Frontend dev o documentation 14 12 10 8 8 Backlog Todo In Progress Done No Status

Project Board





THANK YOU!

QUESTIONS?