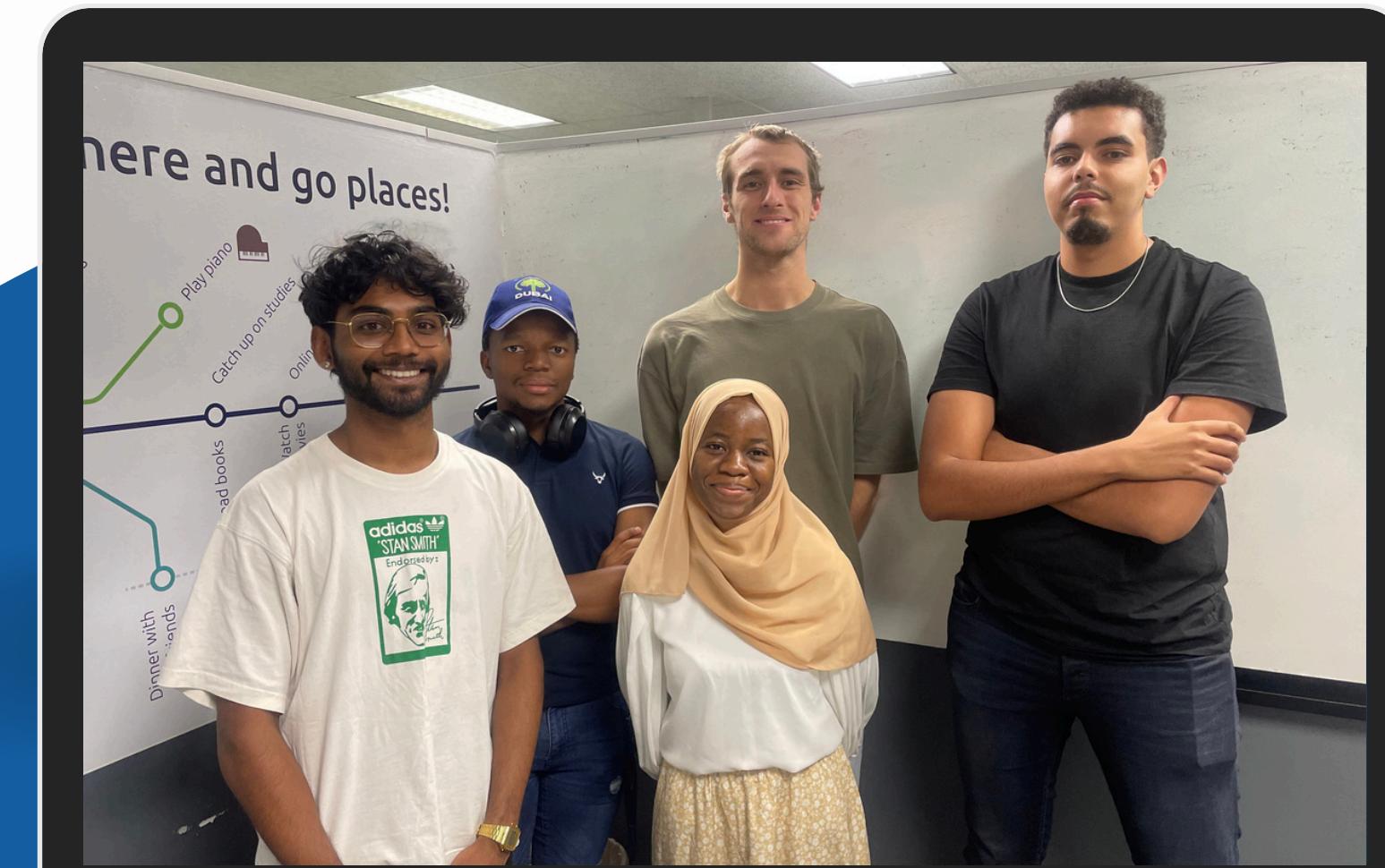




Smart-Inventory

Demo 1



Links To Documentation



ReadMe

Requirement Specification

Architectural Specification

Design Specification

User Manual

Coding Standards

Service Contract

Testing Policy

Agenda



0 **Introduction**

1 **Documentation**

2 **Implementation Progress**

3 **Project Board**

4 **CI/CD**

Our Team



Tristan Sutherland
Project Manager



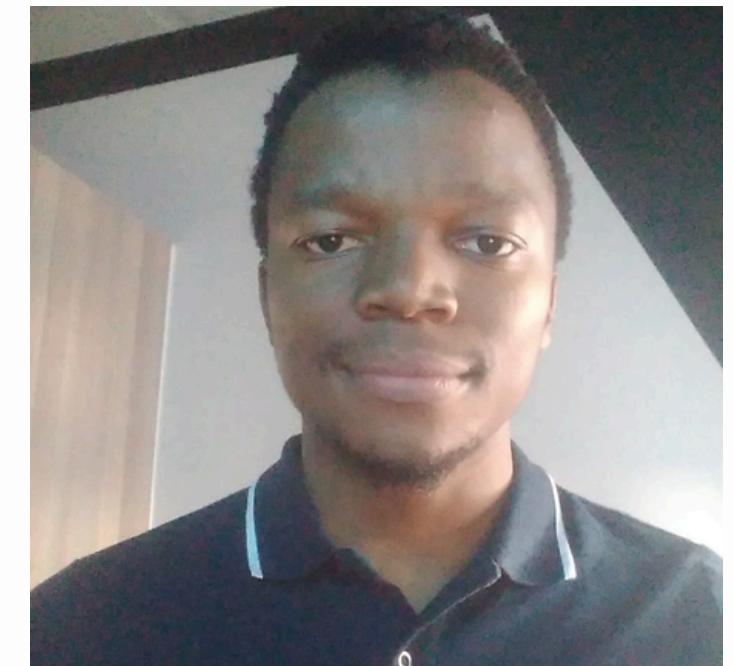
Bryce Sukhdeo



Hawa Ibrahim



Bouchaib Chraf



Thabang Kgaladi

About Smart Inventory

What is Smart Inventory?

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

Who?

Smart Inventory is designed to cater to the needs of various user roles within an organization:

- Business Owners/Managers (Administrators):
 - Manage user access, configure system settings, and gain comprehensive inventory insights.
- Employees (Inventory Controllers/End-Users):
 - Focus on daily stock management tasks, including adding, updating, and requesting stock.

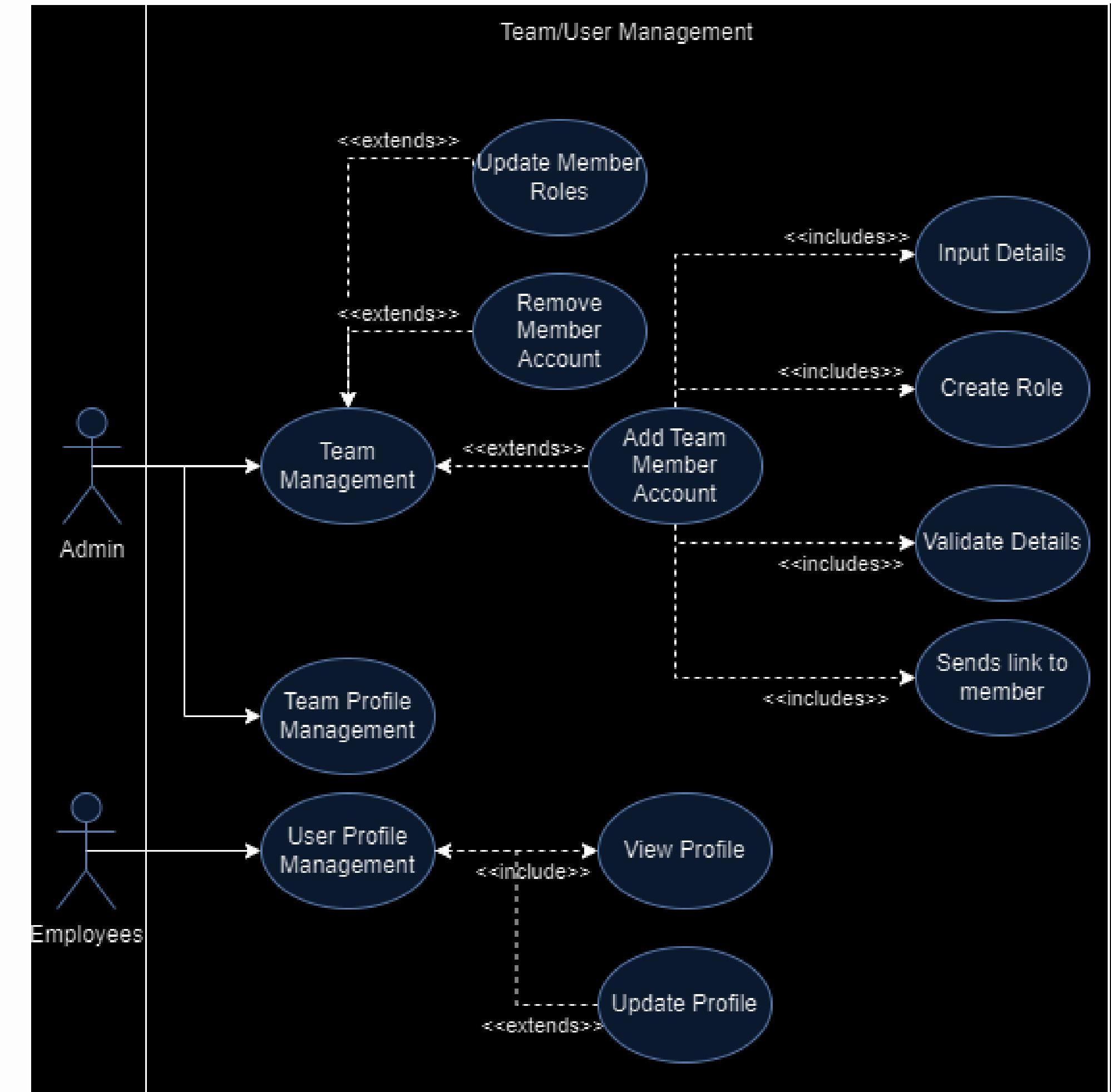
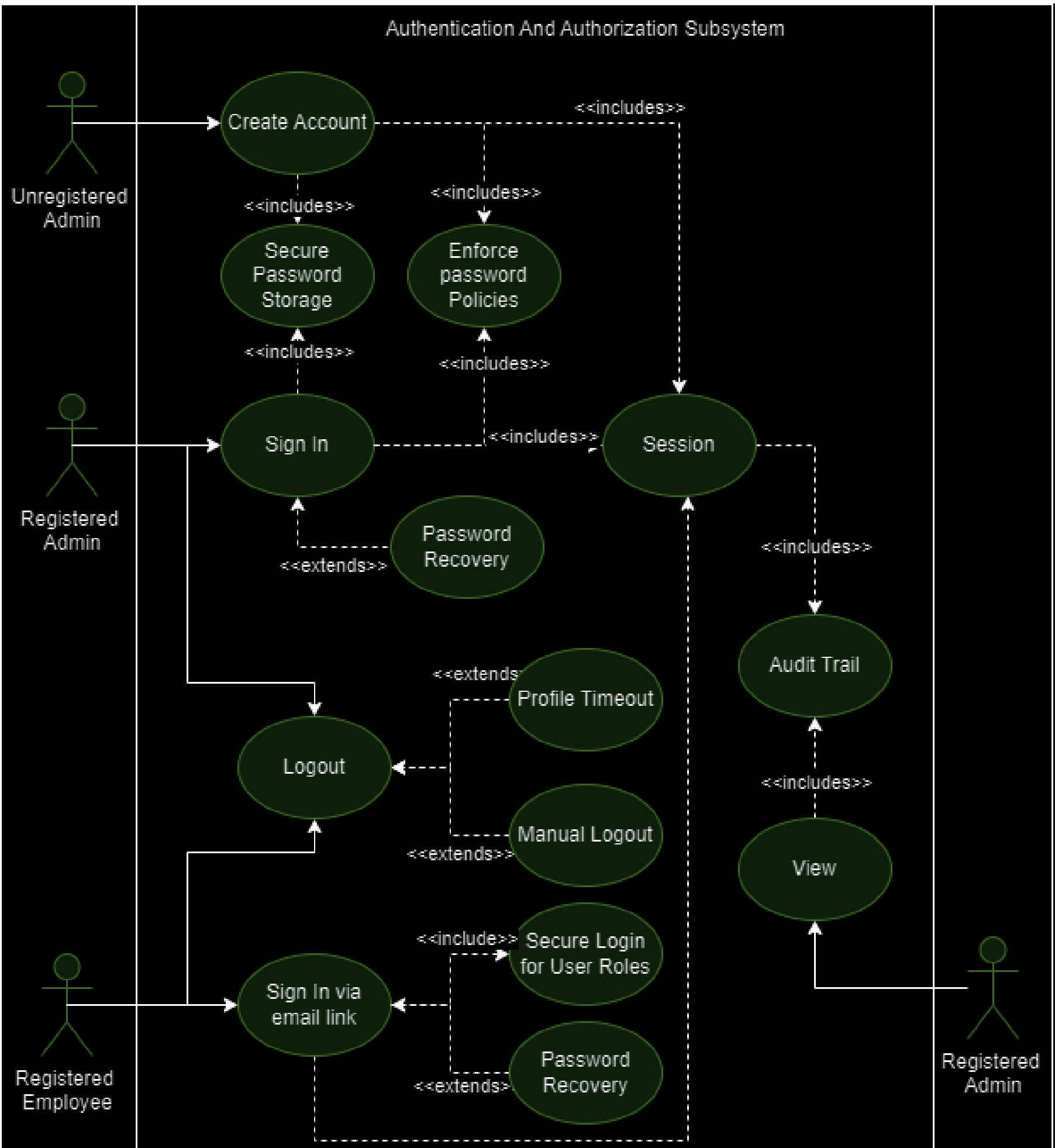


Subsystems

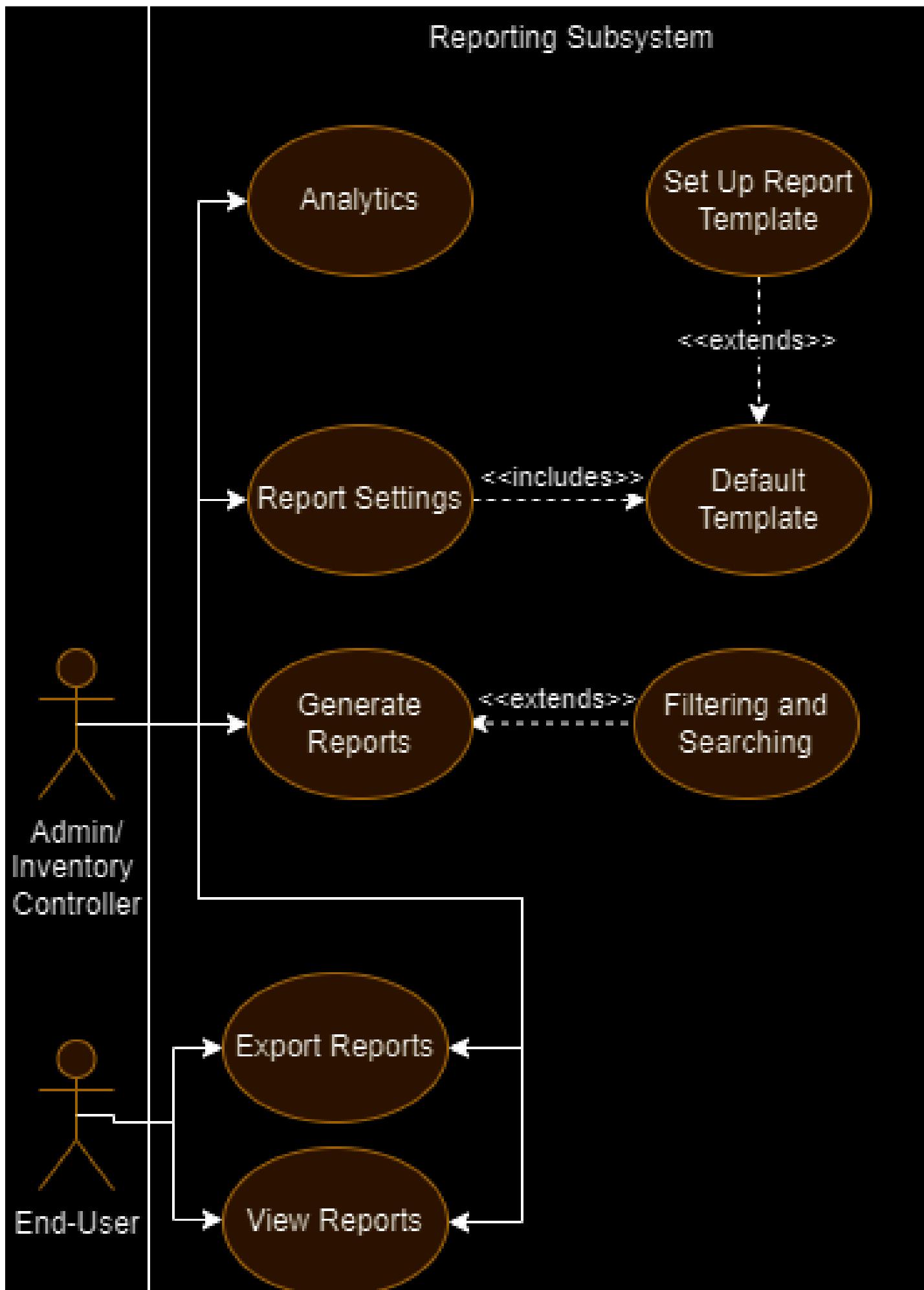
- 1. Authentication and Authorization Subsystem**
- 2. Team/User Management Subsystem**
- 3. Reporting Subsystem**
- 4. Inventory Management Subsystem**
- 5. Stock Request Subsystem**
- 6. Supplier Management Subsystem**
- 7. Order Placement Subsystem**

Authorization/ Authentication Subsystem

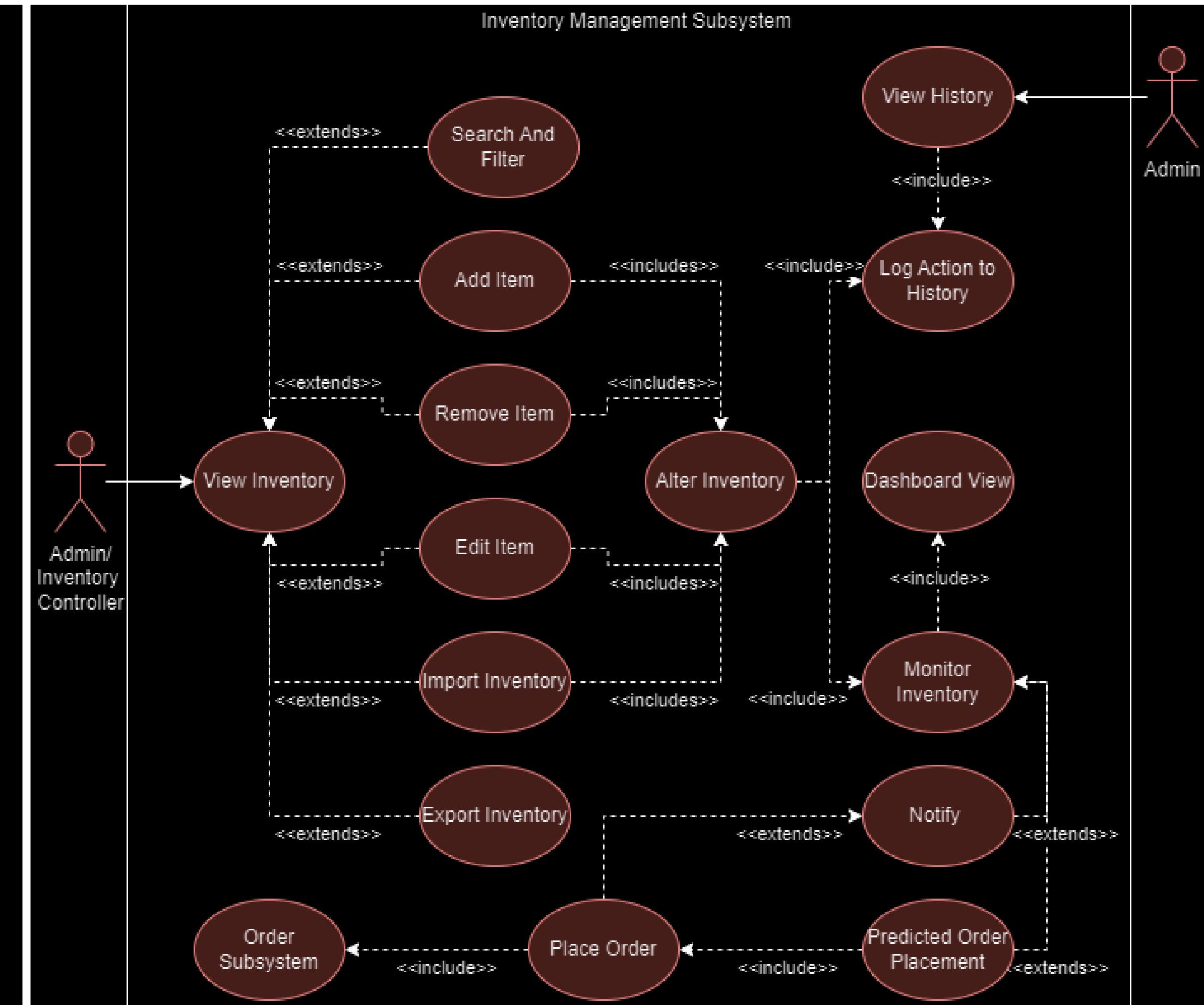
Team/User Management Subsystem



Reporting Subsystem

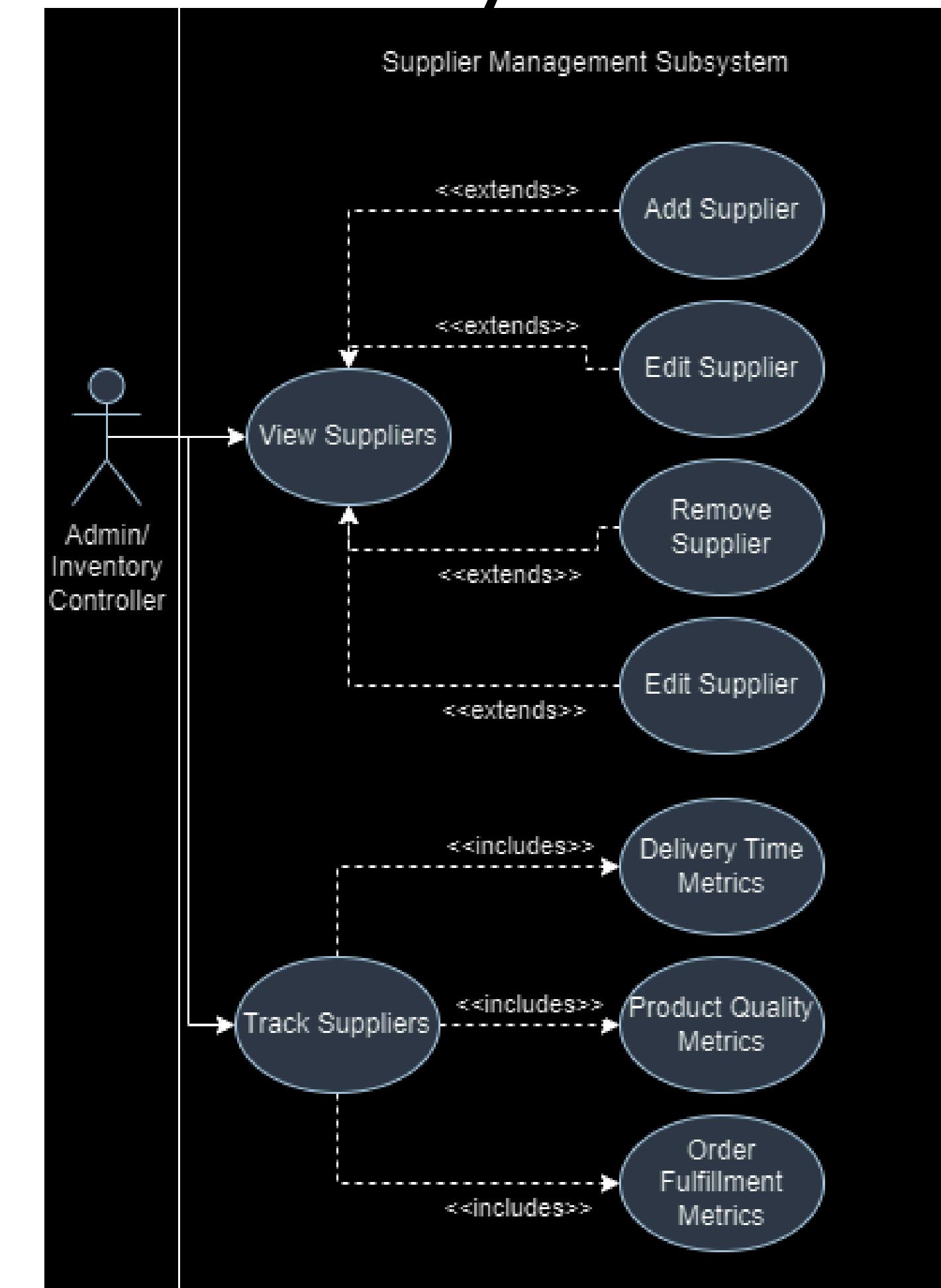
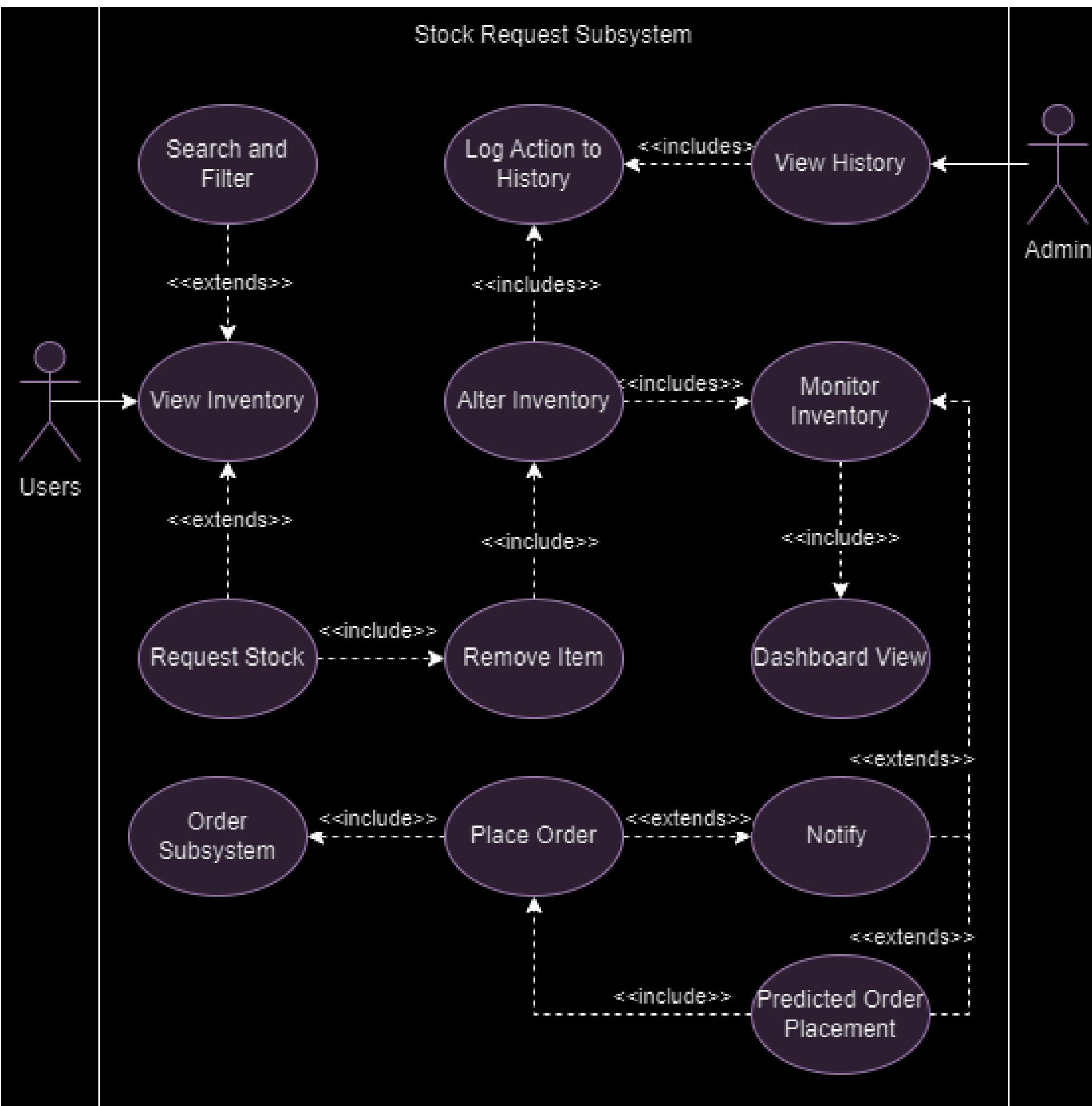


Inventory Management Subsystem

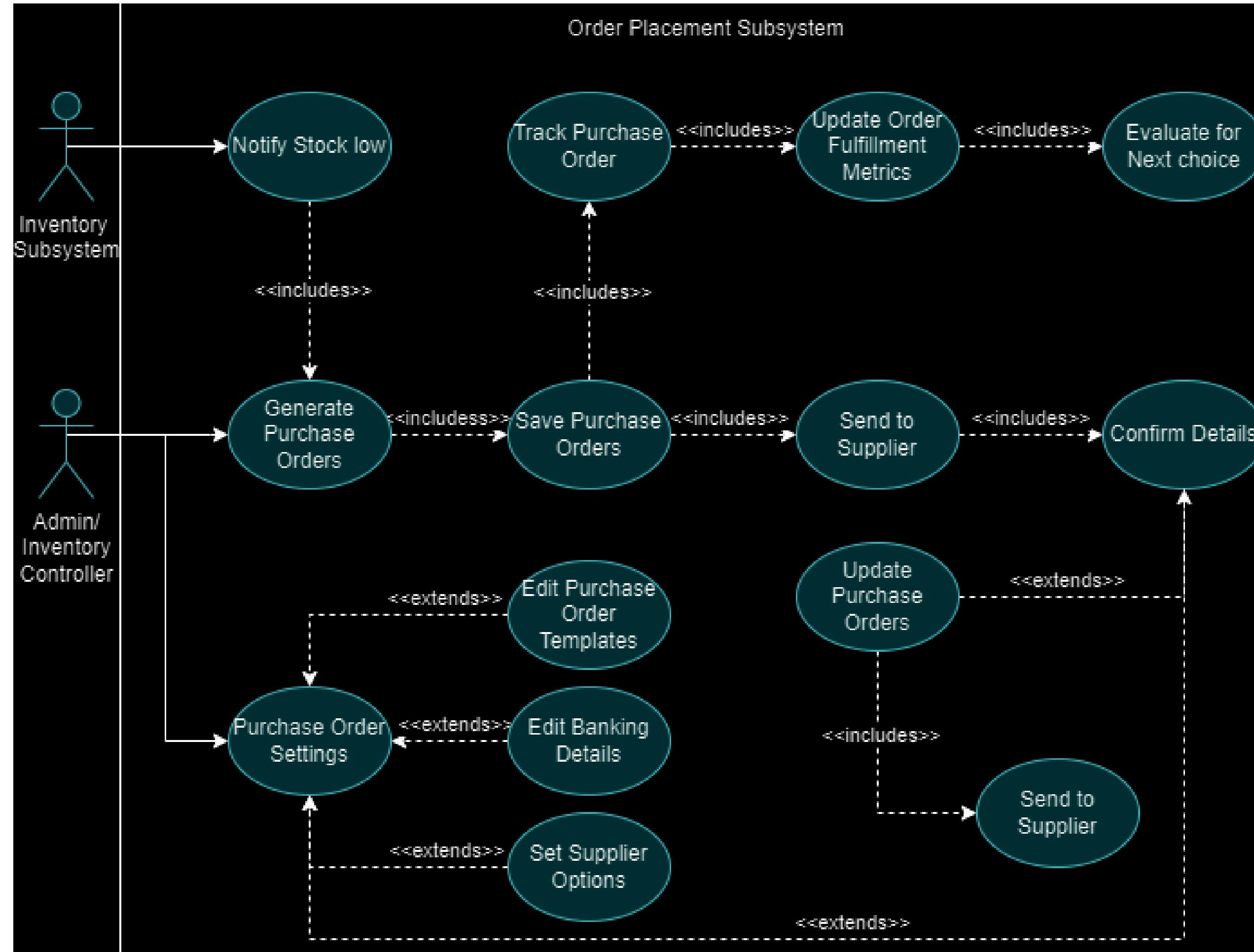


Stock Request Subsystem

Supplier Management Subsystem



Order Placement Subsystem



Architectural Design

Quality Requirements

- Efficiency
- Scalability
- Security
- Usability
- Maintainability

Architectural Styles

- Layered Architecture
- Service-Oriented Architecture (SOA)
- Event-Driven Architecture (EDA)
- Serverless Architecture

Architectural Design

Technology so far

Amplify

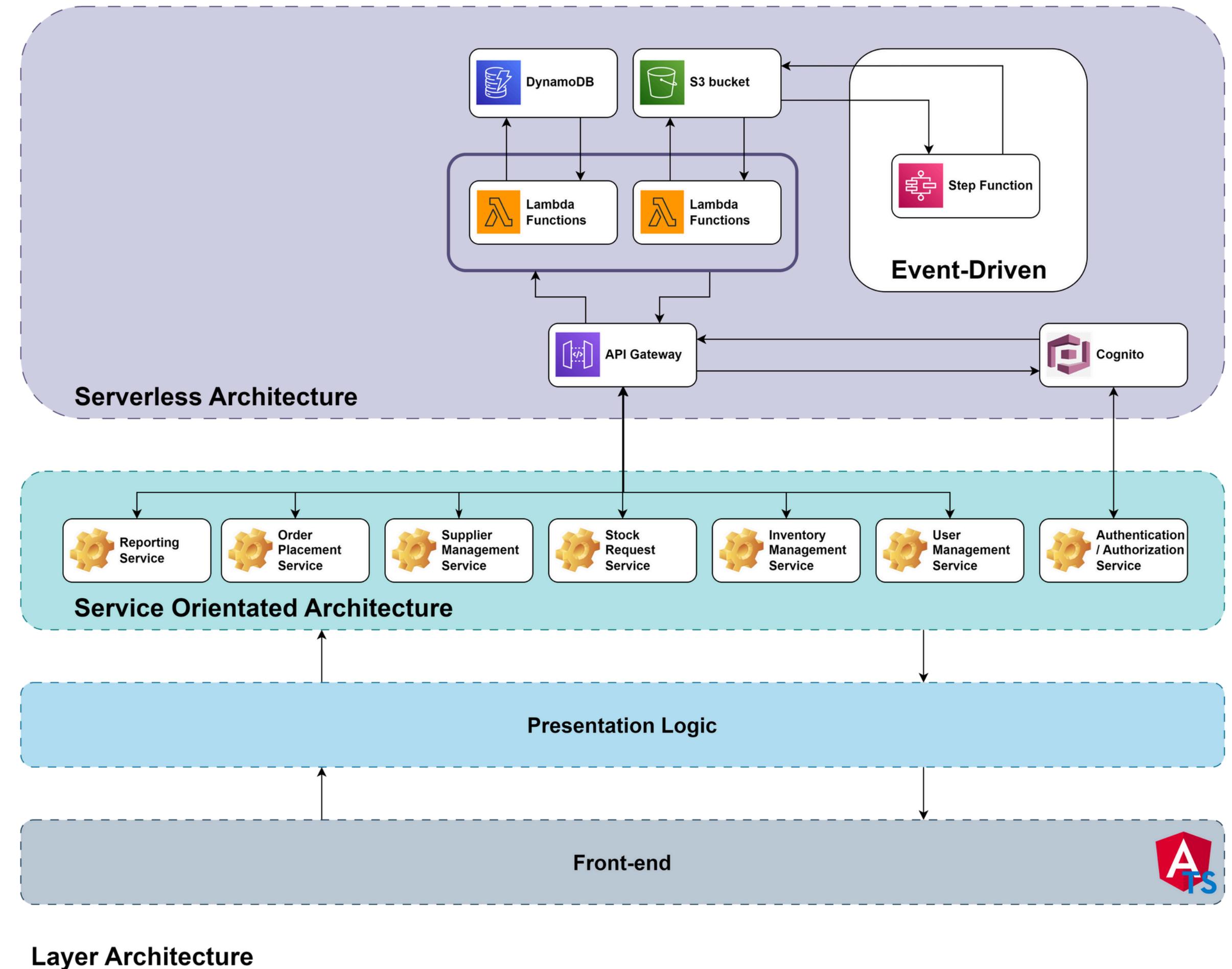
Cognito

Lambda Functions

API Gateway

Sandbox

Cypress



Implementation Progress

Front-End Progress

Sign In

Create Account

Forget Password

Sidebar

Settings Page

Dashboard Page

Inventory Page

Help Page

Back-End Progress

Secure Sign In and Create Account

Add member to a team

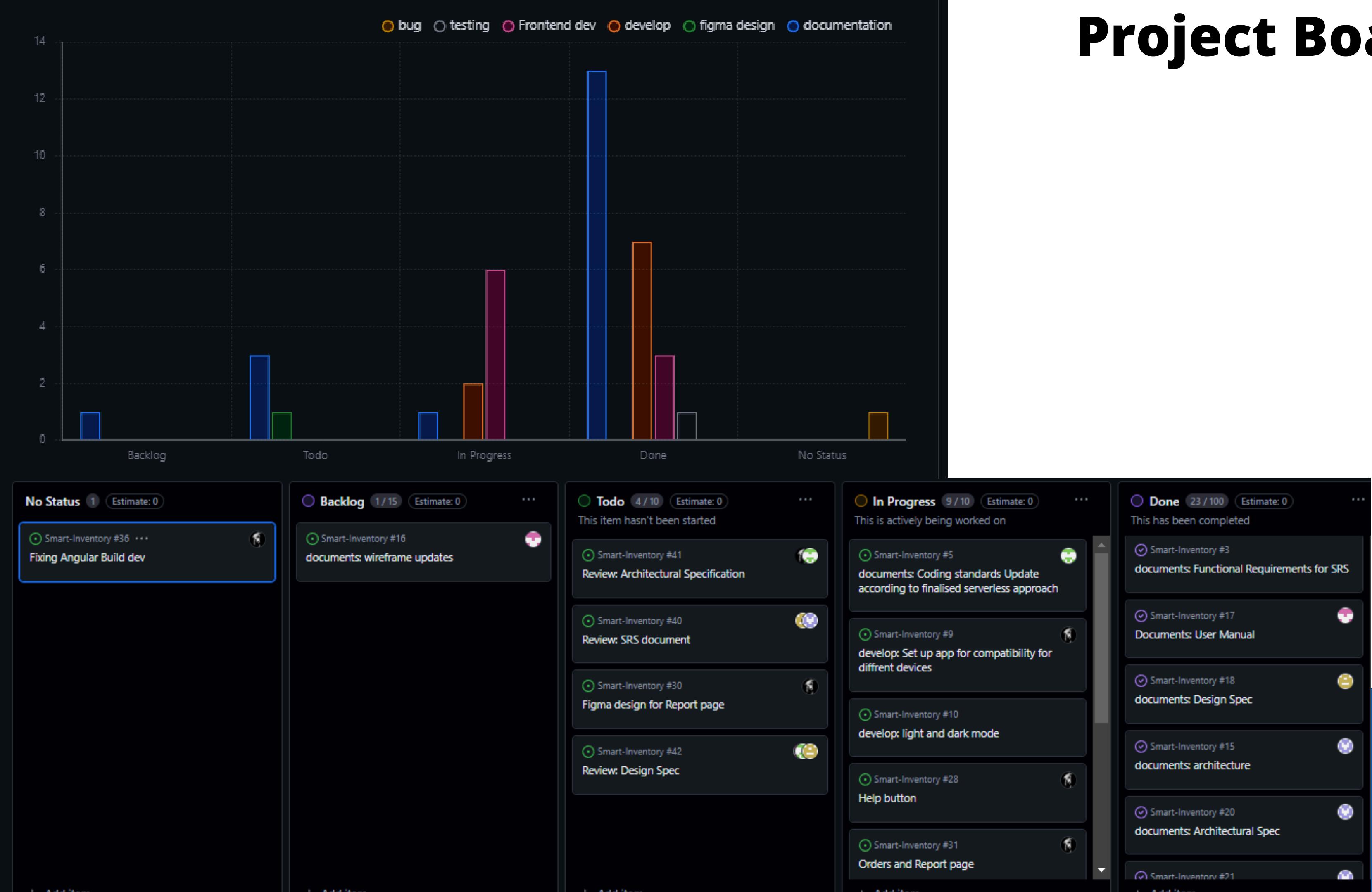
List the team

Add inventory

Export graph as png, svg, etc.

Light/Dark Mode

Project Board



CI/CD

Tests

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

Linting

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

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.

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.

THANK YOU!

QUESTIONS?