Task1: Identification of Use Cases

The following use cases represent the **behavioral aspects** of the system. These describe **what the system does** from the user's perspective.

Authentication & User Management

- User Login
- User Logout

Invoice Processing Module

- Upload Invoice
- Send Invoice to AWS SQS Queue
- Extract Invoice Data
- Validate Invoice
- View Invoice Status
- Export invoice details to Excel

HR Documentation Module

- Upload HR Document
- Extract HR Details (Name, Experience, Position)
- Export HR Details to Excel

Dashboard & History

- View Dashboard
- Track Invoice History
- Track HR Document History

Task2: Identification of Actors

Actors are **external entities** that interact with the system.

Actor	Description
User	Generic system user
Accountant	Handles invoice review
HR	Uploads HR documents and exports Excel data
Authentication Service	Authenticates the user
AWS SQS Service	External service for asynchronous invoice processing
OCR Engine	External system for text extraction

Actor–Use Case Mapping

User

- Login / Logout
- View Dashboard
- View Invoice & HR History

Accountant

- Upload Invoice
- Download Invoice Excel Report
- Validate Invoice

HR Personnel

- Upload HR Document
- Extract HR Details
- Export HR Data to Excel

AWS SQS Service

- Process Invoice Queue

OCR Engine

- Extract Invoice Data
- Extract HR Document Data

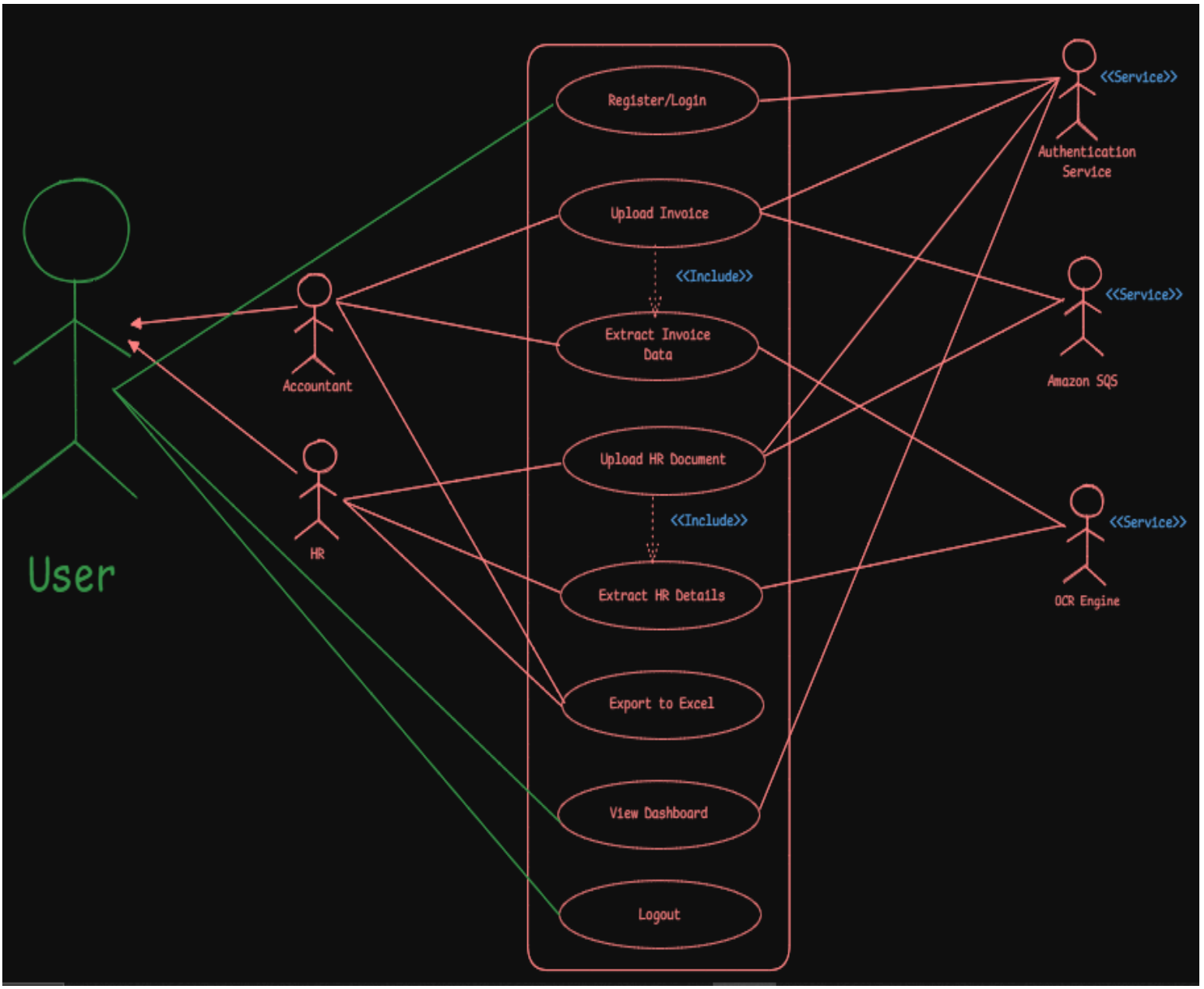
Use Case Diagram:

Inside the Boundary (Use Cases – Ovals)

- Login
- Upload Invoice
- Extract Invoice Data
- Upload HR Document
- Extract HR Details
- Export to Excel
- View Dashboard
- Logout

Outside the Boundary (Actors – Stick Figures)

- User
- Accountant
- HR
- Authentication Service(JWT- JSON Web Token)
- AWS SQS
- OCR Engine


User
Accountant
HR
Register/Login
Upload Invoice
<<Include>>
Extract Invoice Data
Upload HR Document
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Extract HR Details
Export to Excel
View Dashboard
Logout
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OCR Engine