

SECURITY SERVICE MANAGEMENT SYSTEM FOR RALL

Sri Lanka Institute of Information Technology



IT2080 – Information Technology Project

Activity 1

Group ID: ITP24R_B1_W22

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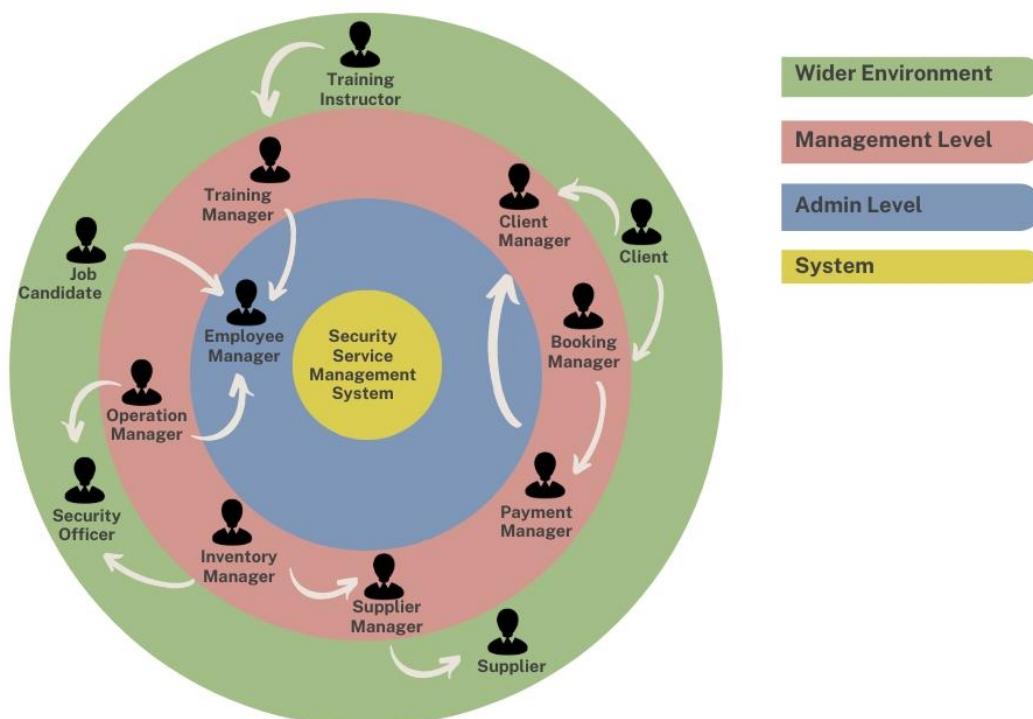
PART 1

01. Stakeholders

- Manager
- Training Manager
- Client Manager
- Operation Manager
- Payment Manager
- Booking Manager
- Inventory Manager
- Supplier Manager
- Client
- Supplier
- Security Officer
- Training Instructor
- Job Candidator

02. Onion Diagram

Onion Diagram



PART 2

01. User Stories

A Manager's Story

- **As a Manager,**
I want to manage employee details and requirements,
So that I can ensure all employee records are accurate and up-to-date.
- **As a Manager,**
I want to handle interviews for potential security officers,
So that I can recruit the best candidates for the job.
- **As a Manager,**
I want to create and provide login details for employees and managers,
So that they can access the system securely.

A Training Manager's Story

- **As a Training Manager,**
I want to manage training sessions,
So that I can ensure all security officers receive necessary training.
- **As a Training Manager,**
I want to manage training instructors,
So that I can coordinate training activities efficiently.
- **As a Training Manager,**
I want to credit security officers for completing training courses,
So that their professional development is recognized.

A Client Manager's Story

- **As a Client Manager,**
I want to manage client details,
So that I can maintain accurate records and ensure client satisfaction.
- **As a Client Manager,**
I want to create and provide client login details,
So that clients can access their accounts securely.
- **As a Client Manager,**
I want to gather and document client requirements,
So that I can provide services that meet their needs.

An Operation Manager's Story

- **As an Operation Manager,**
I want to check the current status of security officers,
So that I can ensure they are performing their duties.
- **As an Operation Manager,**
I want to manage security officers when appointing them to locations,
So that all security needs are covered effectively.
- **As an Operation Manager,**
I want to handle security officer problems,
So that any issues are resolved quickly and efficiently.

A Payment Manager's Story

- **As a Payment Manager,**
I want to generate invoices for clients,
So that all services provided are billed accurately.
- **As a Payment Manager,**
I want to check the payment status of clients,
So that I can follow up on any overdue payments.
- **As a Payment Manager,** I want to confirm payments,
So that I can ensure all transactions are recorded properly.

A Booking Manager's Story

- **As a Booking Manager,**
I want to check for new bookings,
So that I can allocate resources as needed.
- **As a Booking Manager,**
I want to manage all bookings,
So that all client requests are handled efficiently.
- **As a Booking Manager,**
I want to resolve online booking issues,
So that clients have a smooth booking experience.

An Inventory Manager's Story

- **As an Inventory Manager,**
I want to provide uniforms and equipment to security officers,
So that they are properly equipped for their duties.
- **As an Inventory Manager,**
I want to manage stock levels,
So that I can ensure we have adequate supplies at all times.
- **As an Inventory Manager,**
I want to inform the Supplier Manager about stock details for restocking,
So that inventory levels are maintained.

A Supplier Manager's Story

- **As a Supplier Manager,**
I want to reorder stocks,
So that we never run out of essential items.
- **As a Supplier Manager,**
I want to manage supplier relationships,
So that we can ensure timely deliveries and quality supplies.
- **As a Supplier Manager,**
I want to track supplier performance,
So that I can address any issues that arise.

A Client's Story

- **As a Client,**

I want to request security officers for events,

So that I can ensure safety and security.
- **As a Client,**

I want to request lady security officers for functions,

So that I can have gender-specific security as needed.
- **As a Client,**

I want to request VVIP officers with weapons,

So that high-profile events are adequately protected.

A Supplier's Story

- **As a Supplier,**

I want to provide uniforms for security officers,

So that they have proper attire for their duties.
- **As a Supplier,**

I want to supply weapons,

So that security officers are equipped for their roles.
- **As a Supplier,**

I want to provide other necessary equipment,

So that security officers can perform their duties effectively.

A Security Officer's Story

- **As a Security Officer,**
I want to go to scheduled locations for duty,
So that I can fulfill my assignments.
- **As a Security Officer,**
I want to search for locations where I should go on duty,
So that I am aware of my assigned tasks.
- **As a Security Officer,**
I want to collect payments for services rendered,
So that financial transactions are completed.

A Training Instructor's Story

- **As a Training Instructor,**
I want to train newly joined security officers,
So that they are prepared for their roles.
- **As a Training Instructor,**
I want to conduct personal development sessions for security officers,
So that they can enhance their skills.
- **As a Training Instructor,**
I want to manage training courses,
So that training programs are well-organized and effective.

A Job Candidator's Story

- **As a Job Candidator,**

I want to seek security job opportunities,

So that I can find employment after retiring from the army.

- **As a Job Candidator,**

I want to apply for relevant positions,

So that I can be considered for security roles.

- **As a Job Candidator,**

I want to track the status of my job applications,

So that I am informed about my employment prospects.

PART 3

01. Functional Requirements (FR)

Employee Management

- Allow the Manager to add, read, update, and delete employee details.
- Allow the Manager to store employee basic information and professional qualifications.
- Allow the Manager to handle interviews and manage security officer requirements.
- Allow the Manager to create and provide login details for employees and department managers (User Access Control).
- Allow the Manager to generate monthly reports, including net income, and profit reports.
- Handle Employee Leaves.

Training Management

- Allow the Training Manager to add, edit, and delete training schedules.
- Show training instructors their training schedules.
- Allow the Training Manager to manage training sessions and instructors.
- Allow the Training Manager to assign training courses and credit security officers for completed training.
- Allow the Training Manager to generate reports on training sessions and instructor performance.

Client Management

- Allow the Client Manager to create and manage client accounts, including providing login details.
- Allow the Client Manager to gather and document client requirements.
- Allow the Client Manager to update or delete client information, login details also.
- Show clients their service history and upcoming security services.
- Allow the Client Manager to generate reports on client interactions and satisfaction.

Operation Management

- Allow the Operation Manager to check the current status of security officers.
- Allow the Operation Manager to manage the deployment of security officers to different locations.
- Allow the Operation Manager to handle security officer problems and incidents.
- Allow security officers to report issues directly to the Operation Manager.
- Allow the Operation Manager to generate operational reports, including deployment schedules and incident logs.

Payment Management

- Allow the Payment Manager to generate invoices for clients.
- Allow the Payment Manager to check the payment status of clients and confirm payments.
- Allow the Payment Manager to generate financial reports on client payments and overall revenue.

Booking Management

- Allow clients to request security officers for events.
- Allow clients to request specific types of security officers (e.g., lady officers, VVIP officers).
- Allow the Booking Manager to check and manage new bookings.
- Allow the Booking Manager to resolve online booking issues.
- Allow the Booking Manager to handle security officers' payments by event.

Stock/Inventory Management

- Allow the Inventory Manager to provide uniforms and equipment to security officers.
- Allow the Inventory Manager to manage stock levels and update inventory records.
- Allow the Inventory Manager to inform the Supplier Manager about stock details for restocking.
- Allow the Inventory Manager to generate reports on stock usage and inventory levels.

Supplier Management

- Allow the Supplier Manager to add, read, update, and delete supplier details.
- Allow the Supplier Manager to reorder stocks and manage supplier relationships.
- Allow suppliers to accept or reject orders for uniforms, weapons, and other equipment.
- Allow the Supplier Manager to track supplier performance and generate reports on supplier activities and order statuses.

02. Non-Functional Requirements (NFR)

Reliability, Availability, Scalability, User-friendly, Usability, and Security

- The system should be reliable, ensuring consistent performance and accuracy in all operations.
- The system should be highly available, providing 24/7 access with minimal downtime.
- The system should be scalable, capable of handling an increasing number of users and growing data volumes.
- The system should be user-friendly, with an intuitive interface that is easy to navigate for all user types.
- The system should be usable, ensuring that all functions are easily accessible and operable by users with varying levels of technical proficiency.
- The system should be secure, protecting the confidentiality, integrity, and availability of all data.

Concurrency Handling

- The system should be able to handle many concurrent users without performance degradation.
- The system should use efficient load balancing and resource management techniques to ensure smooth operation under high user loads.

Availability

- The system should be available 24/7 with a target uptime of 99.9%.
- Scheduled maintenance should be minimal and communicated to users in advance.
- The system should have failover mechanisms in place to minimize the impact of any potential downtime.

User-Friendly Interface

- The system should provide a clean, intuitive interface that facilitates easy navigation and use.
- The system should offer helpful tooltips, guides, and documentation to assist users in completing their tasks.

Usability

- The system should be designed with usability in mind, ensuring that users can efficiently perform their tasks without unnecessary complexity.
- The system should offer responsive design, ensuring usability across various devices and screen sizes.

Security

- The system should implement robust authentication and authorization mechanisms to control access to different functionalities and data.
- The system should encrypt sensitive data both in transit and at rest to ensure data privacy and security.
- The system should regularly undergo security audits and vulnerability assessments to identify and mitigate potential risks.

Performance

- The system should have low latency, with response times of under 2 seconds for most user actions.
- The system should optimize database queries and backend processes to ensure quick data retrieval and updates.

Scalability

- The system should be designed to easily scale horizontally, allowing for the addition of more servers to handle increased load.
- The system should support load balancing to distribute user requests evenly across available resources.

Maintainability

- The system should be designed with modular architecture, allowing for easy updates and maintenance.
- The system should have comprehensive logging and monitoring to facilitate troubleshooting and performance tuning.

Compatibility

- The system should be compatible with major web browsers (e.g., Chrome, Firefox, Safari, Edge).
- The system should ensure cross-platform compatibility, supporting access from various operating systems (e.g., Windows, macOS, Linux, iOS, Android).

Backup and Recovery

- The system should implement regular automated backups to prevent data loss.
- The system should have a robust disaster recovery plan in place to restore operations quickly in the event of a failure.

03. Technical Requirements (TR)

Development Stack

- **MERN Stack:** The application will be developed using the MERN Stack, which includes:
 - **MongoDB:** For database management.
 - **Express.js:** For building the server-side logic.
 - **React.js:** For building the client-side user interface.
 - **Node.js:** For server-side runtime environment.

Version Control

- **GitHub:** A cloud-based version control system will be used to manage and collaborate on the codebase.

Development Environment

- **Visual Studio Code (VS Code):** The primary Integrated Development Environment (IDE) used for development.

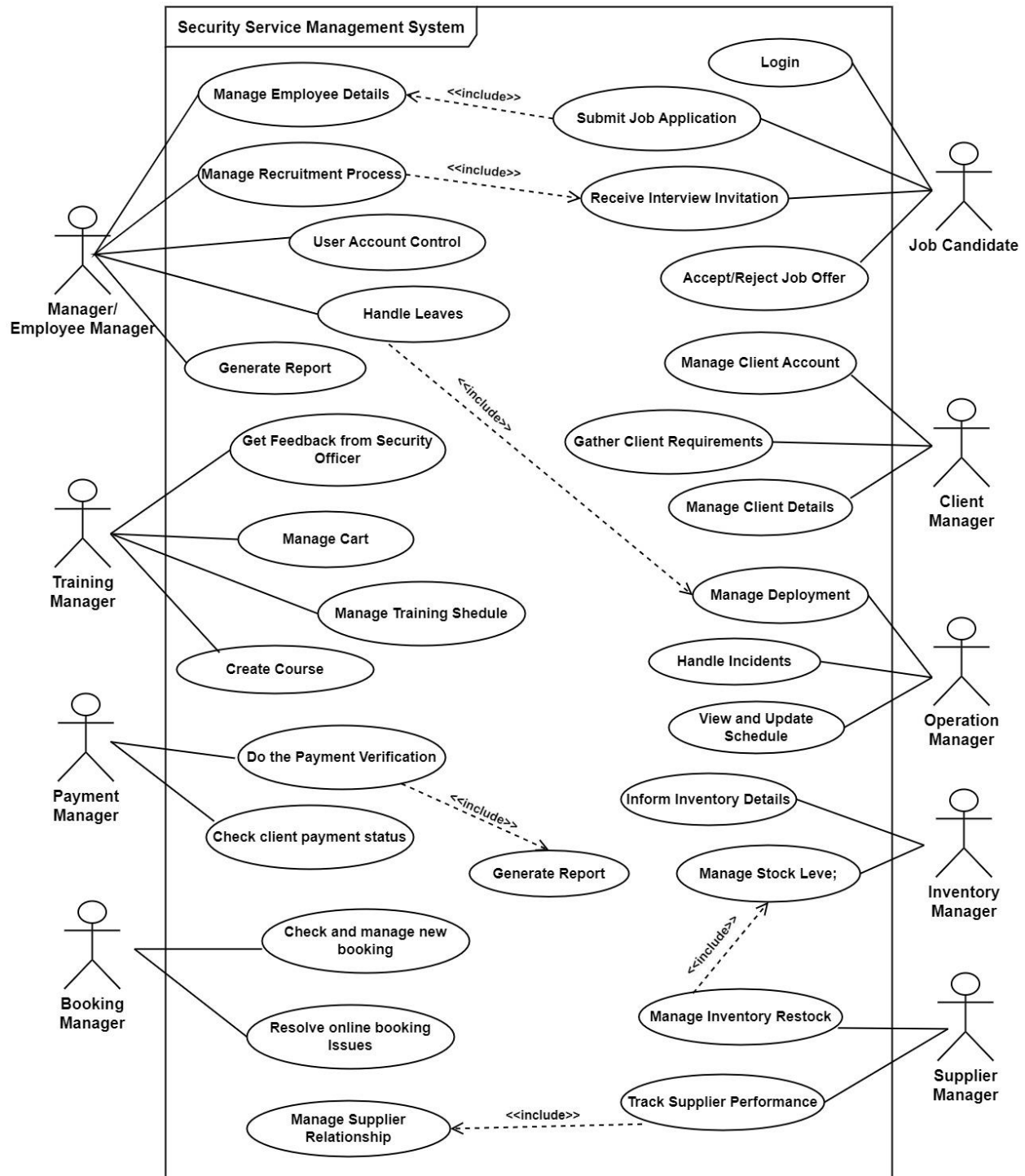
Utilities

- **ChatGPT:** Developed by OpenAI, ChatGPT will be used to assist in the development of specific features such as a BMI calculator.
-
- The system should be built using a client-server architecture.
 - The system should be compatible with different web browsers and devices.
 - The system should be hosted on a secure and reliable web server.

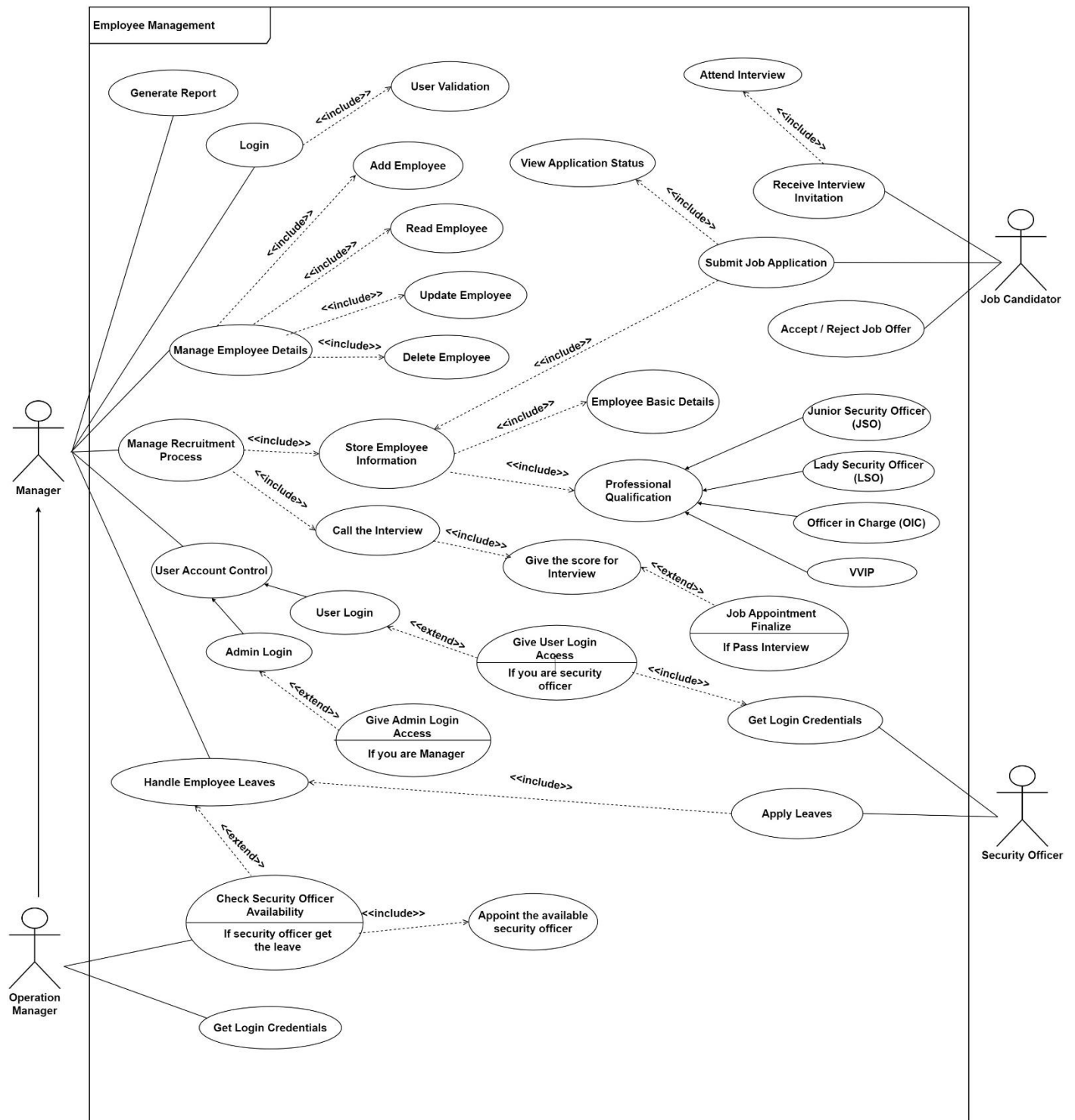
PART 4

01. Use Case Diagrams

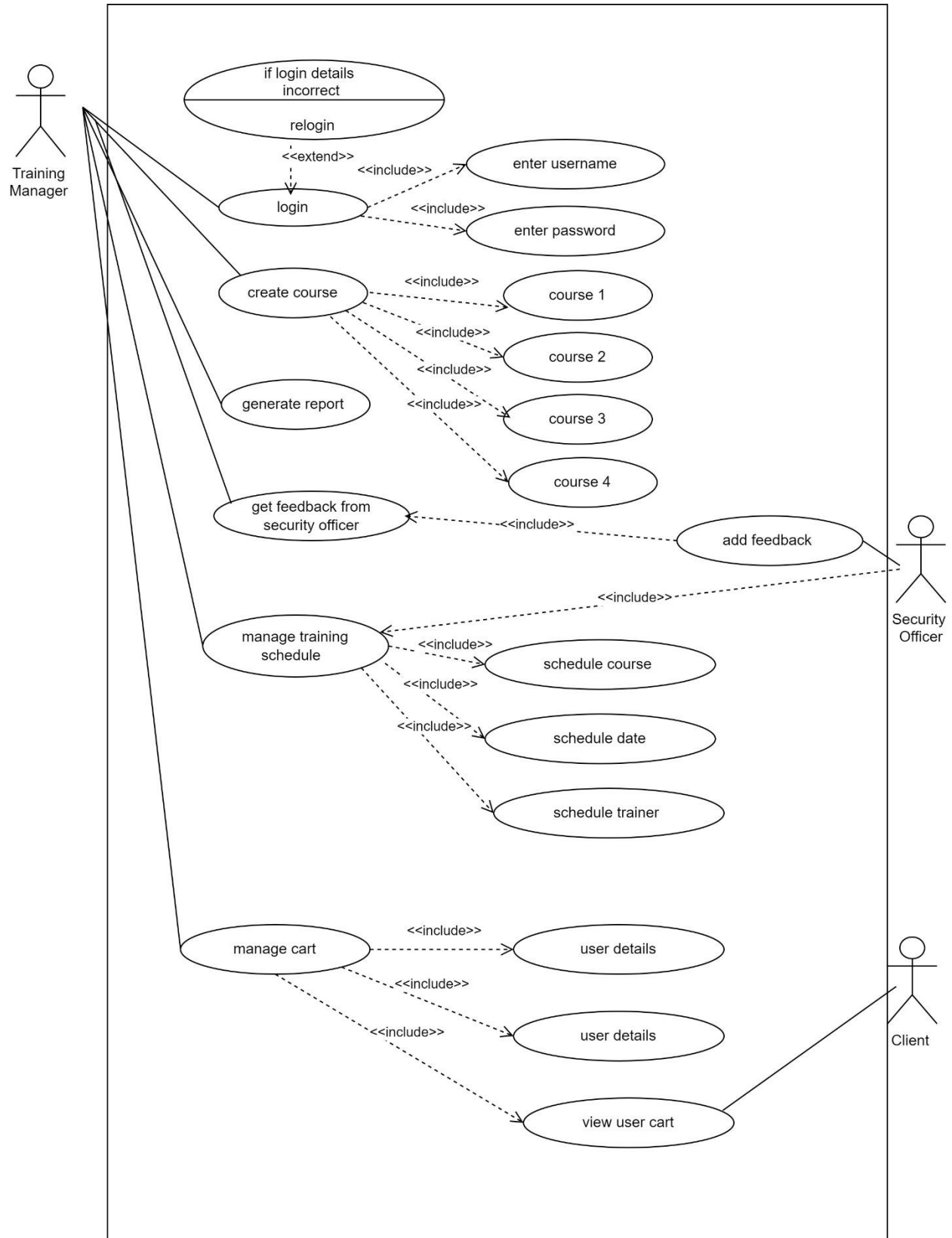
The whole system Use Case Diagram



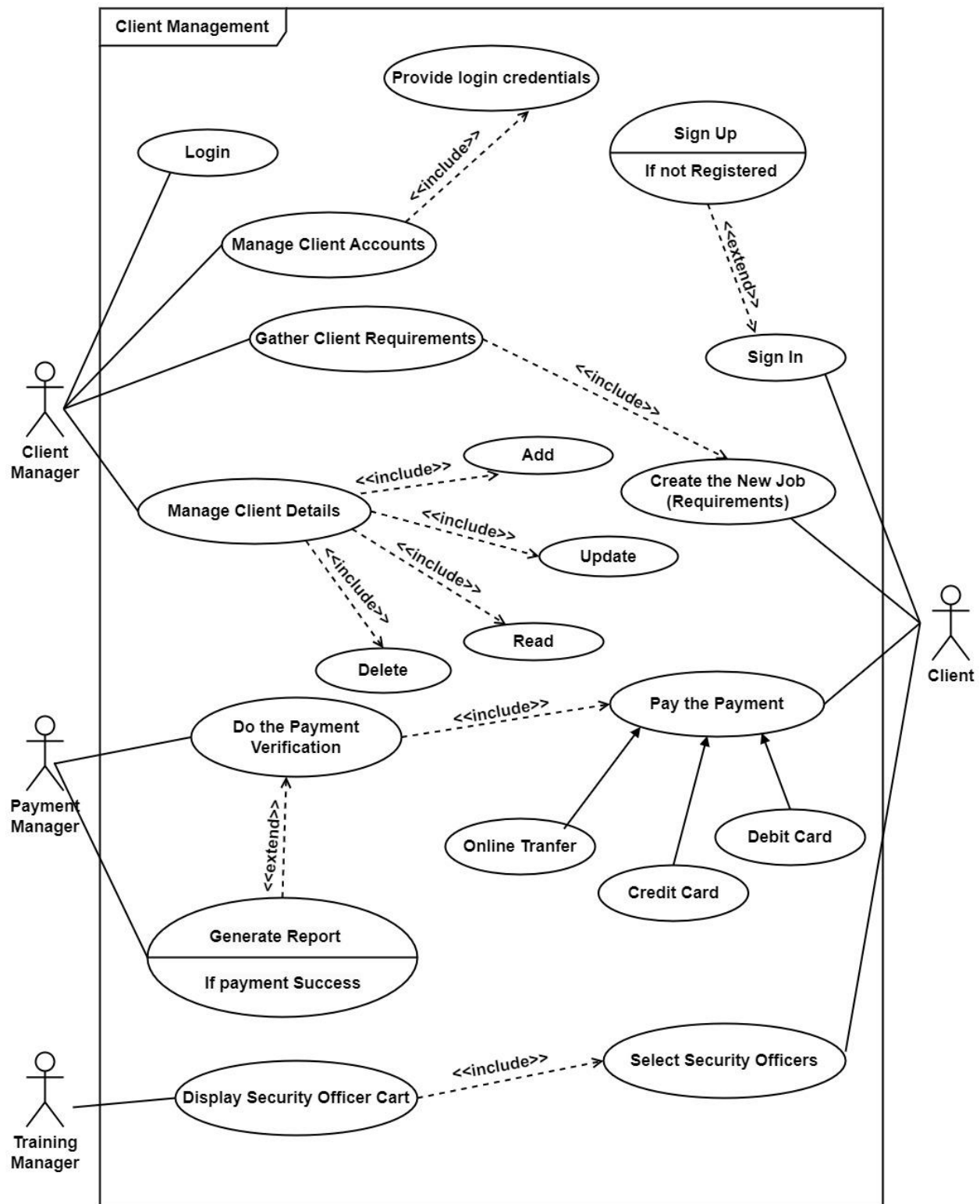
I. Employee Management: IT22325228 – Fernando K. K. C



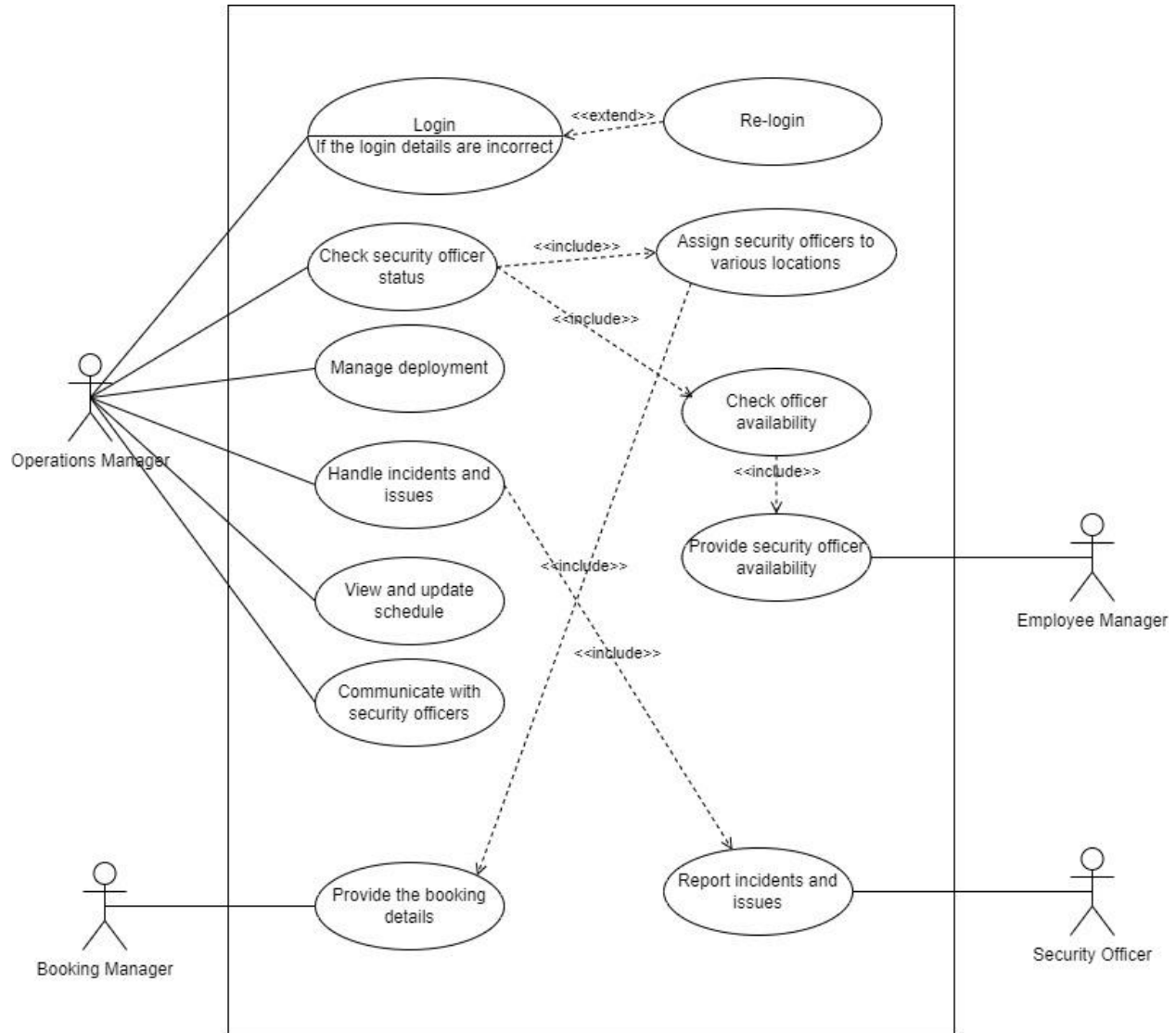
II. Training Management: IT22907998 - Sadisha R. M. M



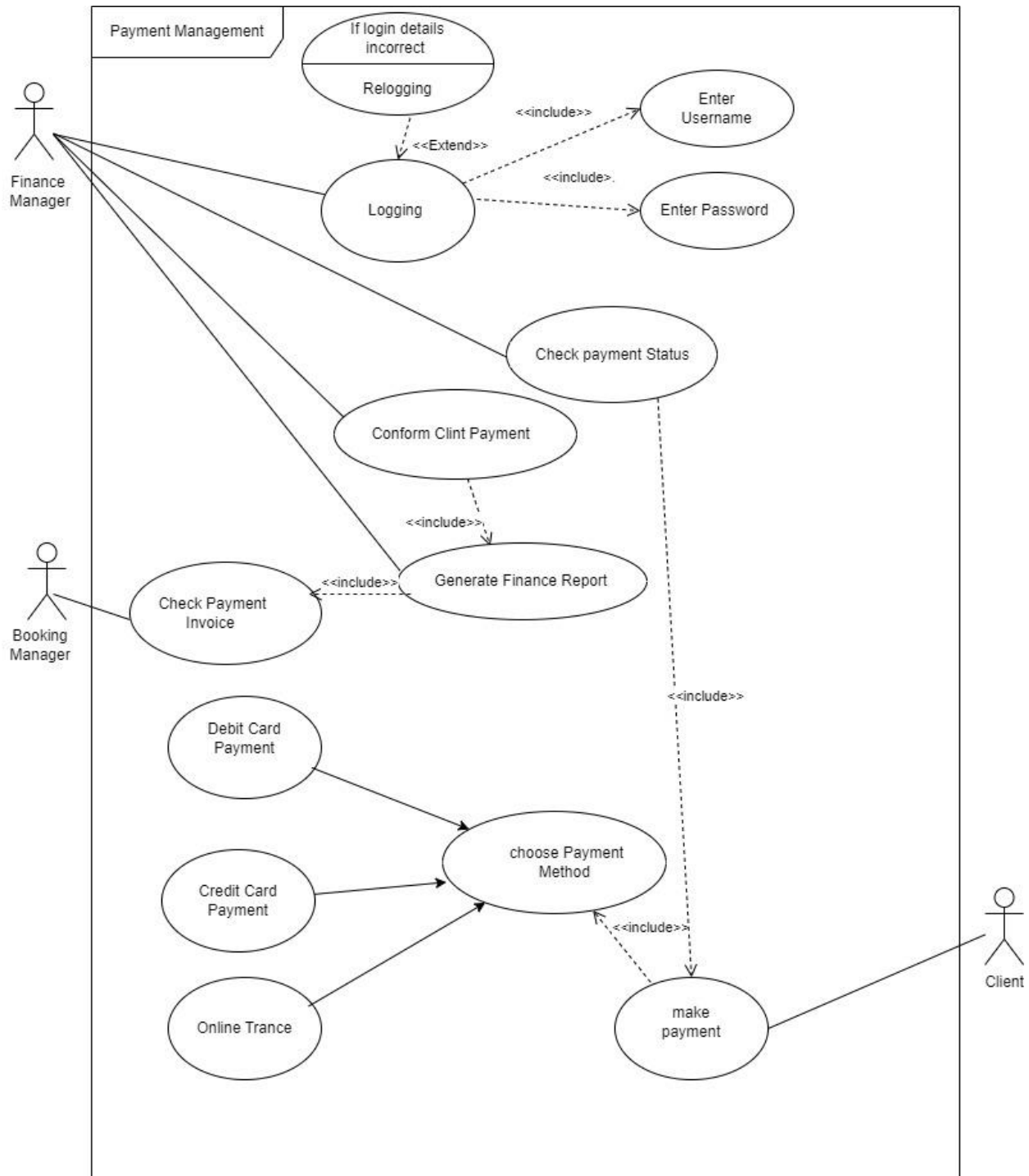
III. Client Management: IT20145552 – Dissanayaka D. M. S. M



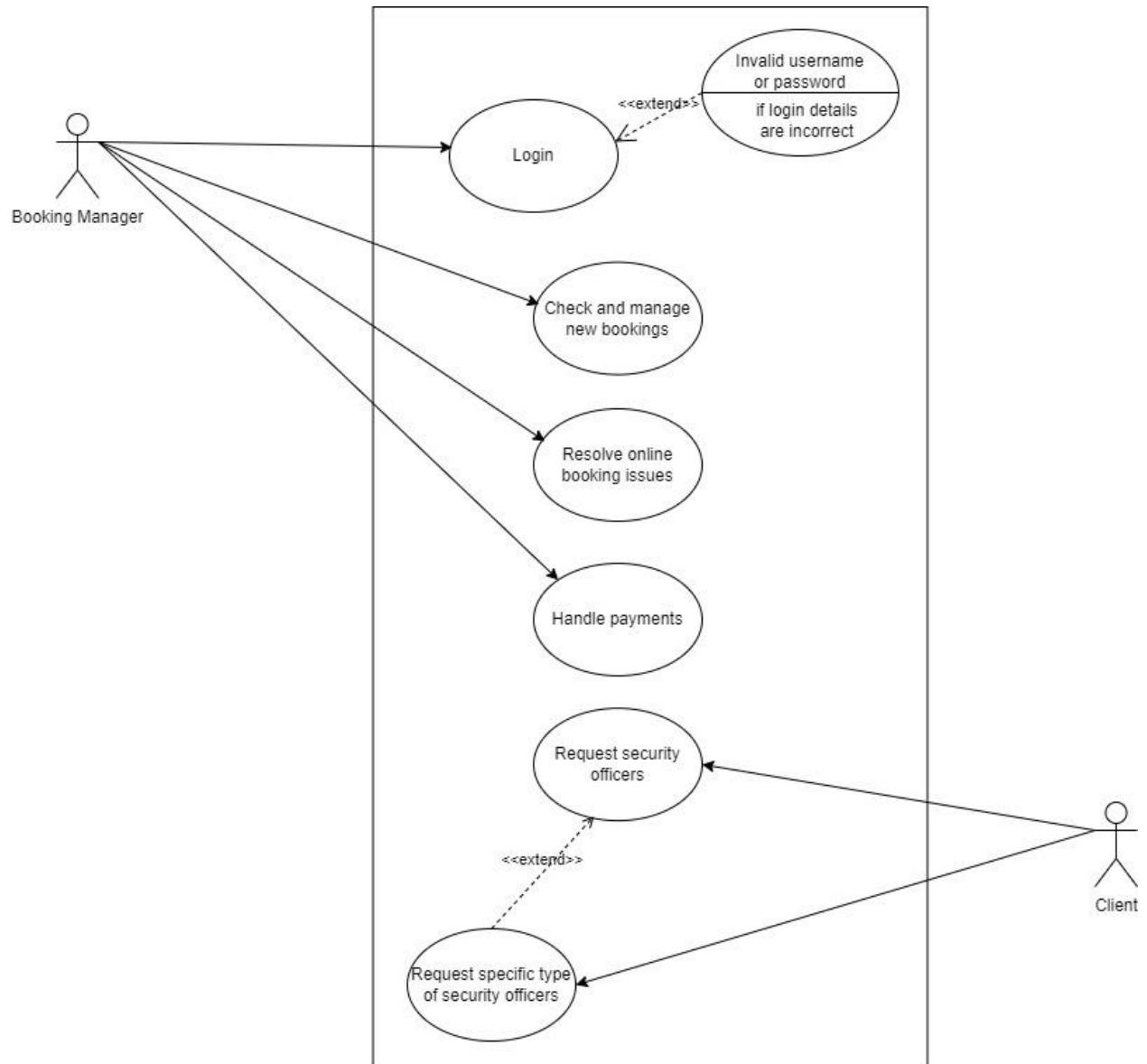
IV. Operation Management: IT22127082 - Medawatte W. W. M. T. N. B



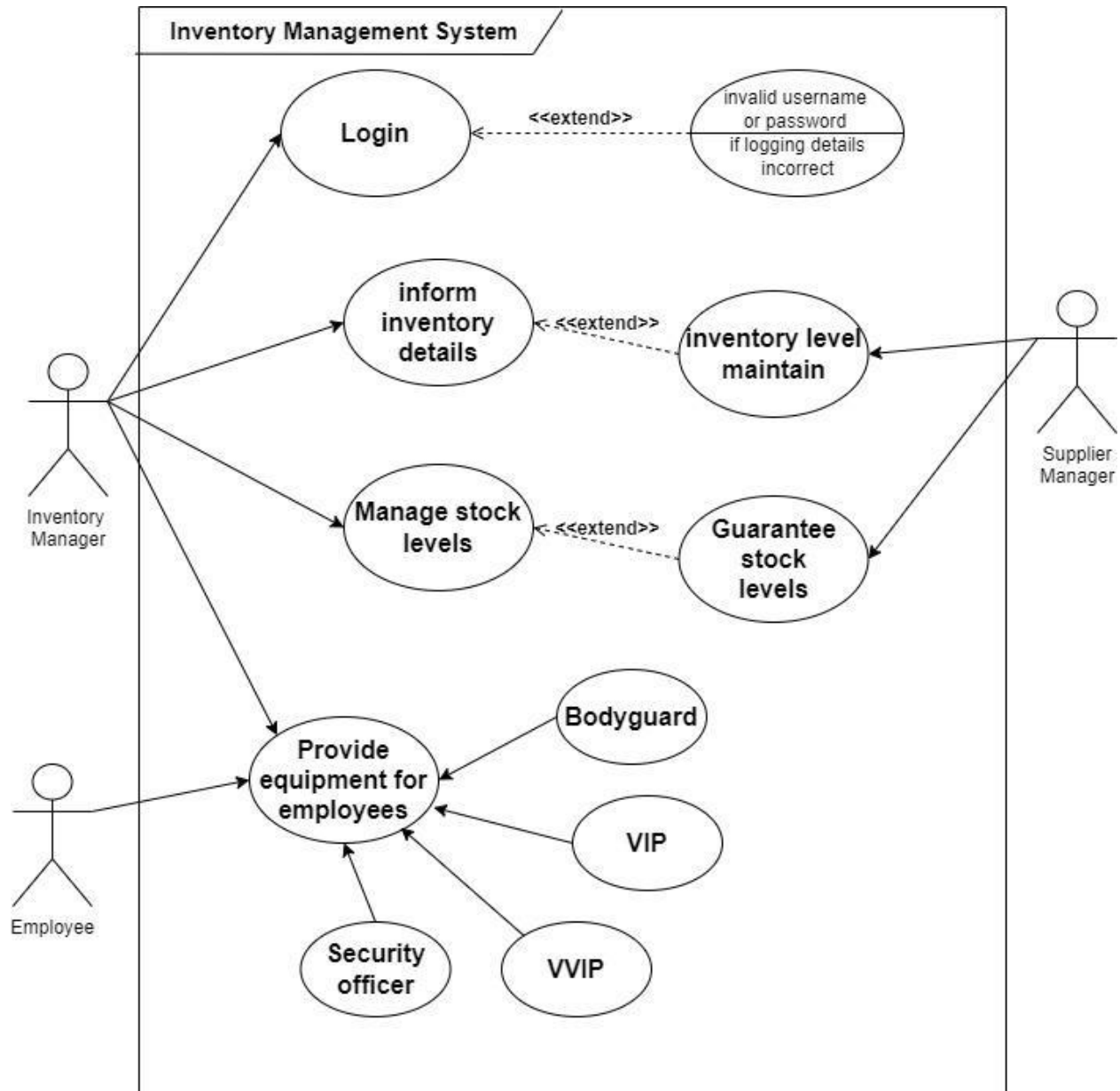
V. Payment Management: IT22293480 - Jayodhya J. D. H



VI. Booking Management: IT22257086 -Randiw E. Y

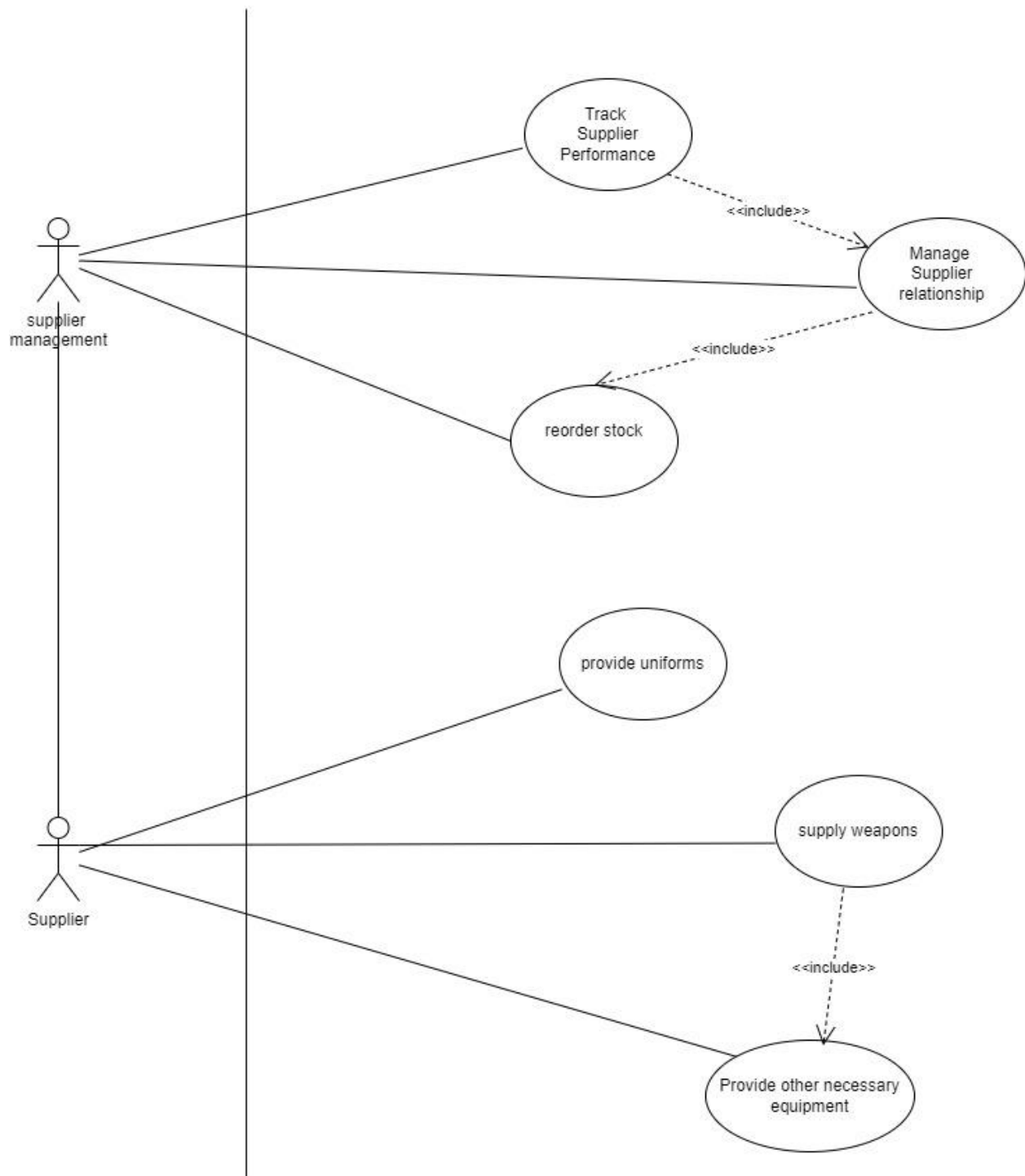


VII. Stock/Inventory Management: IT22132628 – Kusumsiri P. A. S. S



VIII. Supplier Management: IT22197146 – Ranasinghe R. A. R. V. C

Supplier Management



PART 5

01. Use Case Scenario

I. Employee Management: IT22325228 – Fernando K. K. C

Number	04	
Name	Employee Recruitment Process	
Summary	Process of recruiting new employees, specifically security officers, into the organization. It includes steps such as job posting, application submission, candidate screening, interviews, and final selection.	
Priority	High	
Pre-condition	<ul style="list-style-type: none"> • The Manager has access to the employee management system. • Job requirements and qualifications have been defined and approved. • The system is ready to post job openings and manage applications. 	
Post-condition	<ul style="list-style-type: none"> • The selected candidates are documented in the system. • Offers are extended to successful candidates. • The recruitment process for the specific role is completed. 	
Primary actor	Manager / Employee Manager	
Secondary Actor	Job Candidate	
Trigger	A need for new security officers or other staff arises, prompting the recruitment process.	
Main scenario	Step	Action
	1.	The Manager creates a job posting for the required position, detailing the job title, qualifications, responsibilities, and application procedure.
	2.	Job Candidates submit their applications, including resumes and cover letters, through the system.
	3.	The Manager screens the applications to shortlist candidates based on predefined criteria such as qualifications, experience, and skills.
	4.	The Manager schedules interviews with shortlisted candidates, informing them of the date, time, and format of the interview.
	5.	The Manager (and possibly other panel members) conducts interviews with the shortlisted candidates, assessing their suitability for the role.
	6.	After completing the interviews, the Manager selects the most suitable candidates and discusses the decision with relevant stakeholders.
	7.	The Manager sends offer letters to the selected candidates, outlining the terms and conditions of employment.
	8.	The Manager closes the recruitment process for the role, updating the system with the final status of each candidate.
Extensions	Step	Branching Action
	3a	If no candidates meet the minimum criteria, the Manager decides to re-post the job or adjust the requirements.
	3b	The Manager revises the job posting and the recruitment process restarts.
	7a	If a selected candidate declines the offer, the Manager decides whether to extend the offer to another candidate or reopen the recruitment.

II. Training Management: IT22907998 - Sadisha R. M. M

Number	03	
Name	Training Course Management	
Summary	A Training Manager logs into the system, creates training courses, schedules them, generates reports, manages the training cart, and collects feedback from the security officer.	
Precondition	<ul style="list-style-type: none"> The Training Manager must have a valid login ID and Password. The system must be accessible and operational. Necessary permissions must be granted to the Training Manager for creating courses, managing schedules, generating reports, managing the cart, and accessing feedback from the security officer. 	
Postcondition	<ul style="list-style-type: none"> New training courses are created and visible in the system. Training schedules are updated and available for trainees. Reports are generated and stored for review. The training cart is managed and updated. Feedback from the security officer is recorded and accessible. 	
Primary Actor	<ul style="list-style-type: none"> Training Manager Security Officer Trainees (Indirectly involved) 	
Trigger	The need to update or create new training courses and schedules, generate reports, manage the training cart, and review feedback from the security officer.	
Main Scenario	Step	Action
	1	The Training Manager logs into the system using valid credentials.
	2	<ul style="list-style-type: none"> Navigates to the course creation module. Enters details for each of the four courses (title, description, duration, etc.). Saves the courses to the system.
	3	<ul style="list-style-type: none"> Accesses the scheduling module. Assigns dates, times, and trainers to the newly created courses. Ensures there are no conflicts with existing schedules Saves the updated schedule.
	4	<ul style="list-style-type: none"> Navigates to the report generation module. Selects the desired criteria (course completion, attendance, performance, etc.). Generates and reviews the report. Saves or prints the report for records.
	5	<ul style="list-style-type: none"> Accesses the training cart module. Adds or removes courses from the cart as necessary. Ensures the cart is up-to-date with the latest training offerings. Saves changes to the cart.
	6	<ul style="list-style-type: none"> Reviews feedback submitted by the security officer regarding the training programs. Makes any necessary adjustments to the courses or schedules based on the feedback. Records the feedback in the system.

Extensions	Step	Action
	1.1	<ul style="list-style-type: none"> • If the login fails due to incorrect credentials, the system prompts the Training Manager to re-enter the credentials. • After multiple failed attempts, the account may be temporarily locked, and the Training Manager will need to follow the account recovery procedure.
	2.1	If there are issues with course creation (e.g., missing information or system errors), the system highlights the problem areas and prompts the Training Manager to correct them.
	3.1	If there is a scheduling conflict, the system notifies the Training Manager and suggests alternative slots.
	4.1	If report generation fails due to system errors, the Training Manager is notified and can retry the process.
	5.1	If there are problems with managing the cart (e.g., system errors or unavailable courses), the system alerts the Training Manager to resolve the issues.
	6.1	If the feedback from the security officer is unclear or incomplete, the Training Manager may need to seek clarification before making changes.

III. Client Management: IT20145552 – Dissanayaka D. M. S. M

Number	03	
Name	Gather Client Requirements	
Summary	This use case describes the process by which the Client Manager gathers specific service requirements from a client for an upcoming event. This includes understanding the client's needs, documenting the event details, and ensuring all necessary information is collected for service provision.	
Priority	High	
Pre-condition	<ul style="list-style-type: none"> The Client is logged into the system with an active account. The Client Manager has access to the client management system and the client's account details. 	
Post-condition	<ul style="list-style-type: none"> The client's requirements are accurately documented in the system. The system is updated with the event details, and the next steps for service provision are initiated. 	
Primary actor	Client Manager	
Secondary Actor	Client	
Trigger	The Client contacts the Client Manager to request security services for an upcoming event.	
Main scenario	Step	Action
	1.	The Client logs into the system and initiates a request for security services by contacting the Client Manager.
	2.	The Client Manager contacts the Client to discuss the service requirements for the upcoming event.
	3.	The Client provides specific details about the event, including the date, time, location, type of event, and any special considerations (e.g., VIP protection, number of guests).
	4.	The Client specifies the number of security officers required, any preferred qualifications or special training (e.g., first aid, crowd control), and any specific gender preferences
	5.	The Client Manager and Client discuss any additional services needed, such as equipment rental, and logistic details like entry and exit protocols.
	6.	The Client Manager reviews the collected information with the Client for accuracy and completeness. Both parties confirm the documented requirements.
	7.	The Client Manager generates a preliminary service agreement based on the gathered requirements and sends it to the Client for review.
Extensions	Step	Branching Action
	3a	If the Client provides incomplete information, the system prompts the Client Manager to request additional details.
	3b	The Client Manager contacts the Client to gather the missing information.
	4a	If the Client decides to change the requirements after providing initial details, the Client Manager updates the records accordingly.
	4b	The Client Manager revisits the requirements with the Client.

IV. Operation Management: IT22127082 - Medawatte W. W. M. T. N. B

Number	03	
Name	Manage Operations	
Summary	The Operations Manager manages security deployments and communication tasks.	
Priority	High	
Preconditions	The operations manager is logged into the system and has access to operation management features.	
Postconditions	All scheduled operations are updated, incidents are addressed, and security officers are informed of their duties.	
Primary Actor	Operation manager	
Trigger	A scheduled shift changes or incident report is detected by the system	
Main Scenario	Step	Action
	1	Operations Manager logs into the system using credentials.
	2	System verifies login details.
	3	Manager checks and views security officers' statuses.
	4	Manager updates and saves the current schedule.
	5	Manager communicates schedule changes or updates to officers.
	6	System logs all communications between manager and officers.
	7	Manager reviews and responds to reported incidents.
	8	Manager assigns officers based on availability and needs.
	9	System records assignments and updates officer statuses.
	10	Manager coordinates with Booking Manager for event details.
	11	System stores booking details from Booking Manager.
	12	Manager monitors operations and addresses new issues or incidents.
Extensions	Step	Action
	2a	The system prompts the Operations Manager to re-enter the credentials. After three failed attempts, access is temporarily locked.
	5a	The system retries sending the message and logs the failure. An alert is sent to the Operations Manager to manually contact the officer.
	7a	The system escalates the issue to senior management and logs all actions taken in response.
Open issues	8a	The Operations Manager reschedules or reallocates existing officers based on priority needs. The system suggests possible options.
	1	Unresolved security incident at the main entrance.

V. Payment Management: IT22293480 - Jayodhya J. D. H

Number	03	
Name	Finance Management	
Summary	The financial manager logs into the system, checks the payment method, confirms the client's payment, and generates a finance report.	
Precondition	<ul style="list-style-type: none"> The financial manager must have valid login credentials. The client must have initiated a payment. The system must be operational and accessible. 	
Postcondition	<ul style="list-style-type: none"> The client's payment is confirmed and recorded in the system. A finance report is generated and available for review or distribution. 	
Primary Actor	<ul style="list-style-type: none"> Financial Manager Client Payment System 	
Trigger	A client makes a payment, prompting the financial manager to confirm and record the Payment.	
Main Scenario	Step	Action
	1	The financial manager logs into the system using valid credentials.
	2	The system verifies the login credentials and grants access.
	3	The financial manager navigates to the payment section.
	4	The financial manager checks the client's payment method.
	5	The system retrieves and displays the client's payment information.
	6	The financial manager confirms the client's payment.
	7	The system records the payment confirmation.
	8	The financial manager confirms the client's payment.
	9	The system complies and generates the finance report
	10	The financial manager reviews and saves the finance report.
Extensions	Step	Action
	1.1	The financial manager enters incorrect credentials.
	1.2	The system displays an error message and prompts for re-entry.
	4.1	The financial manager checks the payment method, but the system does not find it.
	4.2	The system displays an error message.
	4.3	The financial manager contacts the client for clarification.
	8.1	The system encounters an error while generating the finance report.
	8.2	The system logs the error and notifies the financial manager.
	8.3	The financial manager retries generating the report.

VI. Booking Management: IT22257086 -Randiw E. Y

Name	Manage Bookings	
Summary	A Booking Manager checks for new bookings, updates their statuses, and allocates necessary resources to handle client requests efficiently	
Priority	1	
Pre-conditions	<ul style="list-style-type: none"> The Booking Manager is logged into the system. There are new bookings in the system awaiting review 	
Post-conditions	<ul style="list-style-type: none"> Bookings are updated with the appropriate status. Security officers are allocated to the events. Notifications are sent to clients regarding the status of their bookings 	
Primary Actors(s)	Booking Manager	
Secondary Actor(s)	Client	
Main Scenario	Step	Action
	1	The Booking Manager logs into the system using their credentials.
	2	The Booking Manager navigates to the bookings section in the system dashboard.
	3	The system displays a list of new bookings that need attention.
	4	The Booking Manager updates the status of each booking (e.g., approved, pending, rejected) based on the review.
	5	The system records the updates and allocations made by the Booking Manager.
	6	The system automatically sends notifications to clients about the status of their bookings and any assigned security officers.
Extensions	Step	Branching action
	5a	The Booking Manager updates the booking once the required information is received.
	6a	The Booking Manager informs the client of any changes to the original booking.

VII. Stock/Inventory Management: IT22132628 – Kusumsiri P. A. S. S

Number	02	
Name	Informing Inventory Details and Maintaining Inventory Levels	
Summary	Coordinate between the Inventory Manager and Supplier Manager to maintain optimal inventory levels by reviewing stock, compiling details, placing orders, and updating records to ensure timely restocking.	
Precondition	<ul style="list-style-type: none"> The Inventory Manager has access to the current inventory system. The Supplier Manager has access to the inventory and supplier management systems. 	
Postcondition	<ul style="list-style-type: none"> The Supplier Manager is informed about the inventory details. The Supplier Manager updates the stock levels as needed. 	
Primary Actor	<ul style="list-style-type: none"> Inventory Manager (IM) Supplier Manager (SM) 	
Trigger	The Inventory Manager identifies that stock levels of certain items are low or depleted during a routine inventory review or when alerted by the inventory management system's low-stock notifications.	
Main Scenario	Step	Action
	1	The Inventory Manager logs into the system using valid credentials.
	2	<ul style="list-style-type: none"> The Inventory Manager periodically reviews the current inventory levels in the system. The system shows that certain items are running low or are out of stock.
	3	<ul style="list-style-type: none"> The Inventory Manager compiles a detailed report of current stock levels, including the quantities of items that need restocking. The report also includes any special instructions or priority needs.
	4	<ul style="list-style-type: none"> The Inventory Manager sends the inventory details report to the Supplier Manager via email or a designated communication platform. The report includes information such as item names, quantities needed, and preferred delivery times.
	5	<ul style="list-style-type: none"> The Supplier Manager receives the report and reviews the inventory details. The Supplier Manager checks current supplier stock and assesses the feasibility of restocking the items.
	6	<ul style="list-style-type: none"> Based on the inventory details provided, the Supplier Manager places orders with the suppliers to restock the items. The Supplier Manager updates the inventory system with the new stock levels and expected delivery dates.
	7	<ul style="list-style-type: none"> The Inventory Manager monitors the updated inventory system to ensure that stock levels are replenished as per the orders placed. The Inventory Manager also reviews any notifications or updates from the Supplier Manager regarding the status of the restocking process.
	8	Once the stock is received, the Supplier Manager confirms the delivery and updates the inventory system with the received quantities.
	9	<ul style="list-style-type: none"> The Inventory Manager provides feedback on the restocking process and any discrepancies found.

		<ul style="list-style-type: none"> Both the Inventory Manager and Supplier Manager discuss any adjustments needed for future orders.
Extensions	Step	Action
	2.1	The Inventory Manager conducts a physical inventory check to resolve discrepancies. The updated data is communicated to the Supplier Manager for accurate restocking.
	3.1	<ul style="list-style-type: none"> Inventory Manager Informs Supplier Manager About Stock Details for Restocking There is a delay in the transmission of inventory details between the Inventory Manager and Supplier Manager.
	4.1	The Inventory Manager adjusts inventory plans to comply with regulations. The Supplier Manager works to ensure that all ordered items meet the new compliance requirements.
	5.1	The Inventory Manager prioritizes critical items for restocking and adjusts orders accordingly. The Supplier Manager is informed of the revised order quantities and delivery schedules.
	7.1	The Supplier Manager coordinates with the supplier to resolve the issue, arranges for replacements or corrections, and updates the Inventory Manager on the situation.

VIII. Supplier Management: IT22197146 – Ranasinghe R. A. R. V. C

Number	03	
Name	Buying Uniforms	
Summary	The Supplier Manager purchases uniforms from the Supplier to ensure security officers have the proper attire for their duties.	
Priority	2	
Pre-condition	The Supplier Manager is logged into the Supplier Management System, and the system has access to supplier catalogs.	
Post-condition	Uniforms are ordered from the Supplier, and the order details are logged in the system.	
Primary actor	Supplier Manager	
Trigger	The stock of uniforms reaches a reorder level, or there is a new requirement for uniforms.	
Main Scenario	Step	Action
	1	The Supplier Manager identifies the need for new uniforms.
	2	The Supplier Manager logs into the Supplier Management System
	3	The Supplier Manager navigates to the uniform supply section
	4	The Supplier Manager reviews the available suppliers and their catalogs.
	5	The Supplier Manager selects the required uniforms and places an order.
	6	The system sends the order request to the Supplier.
	7	The Supplier processes the order and confirms the order details.
	8	The Supplier Manager receives the confirmation and order details are logged in the system.
Extensions	Step	Branching Action
	4a	If no suitable supplier is found, the Supplier Manager can search for new suppliers.
	5a	If the selected uniforms are out of stock, the Supplier Manager can choose an alternative or backorder the uniforms.
	7a	If the Supplier cannot fulfill the order, the Supplier Manager will be notified and must select a different supplier.