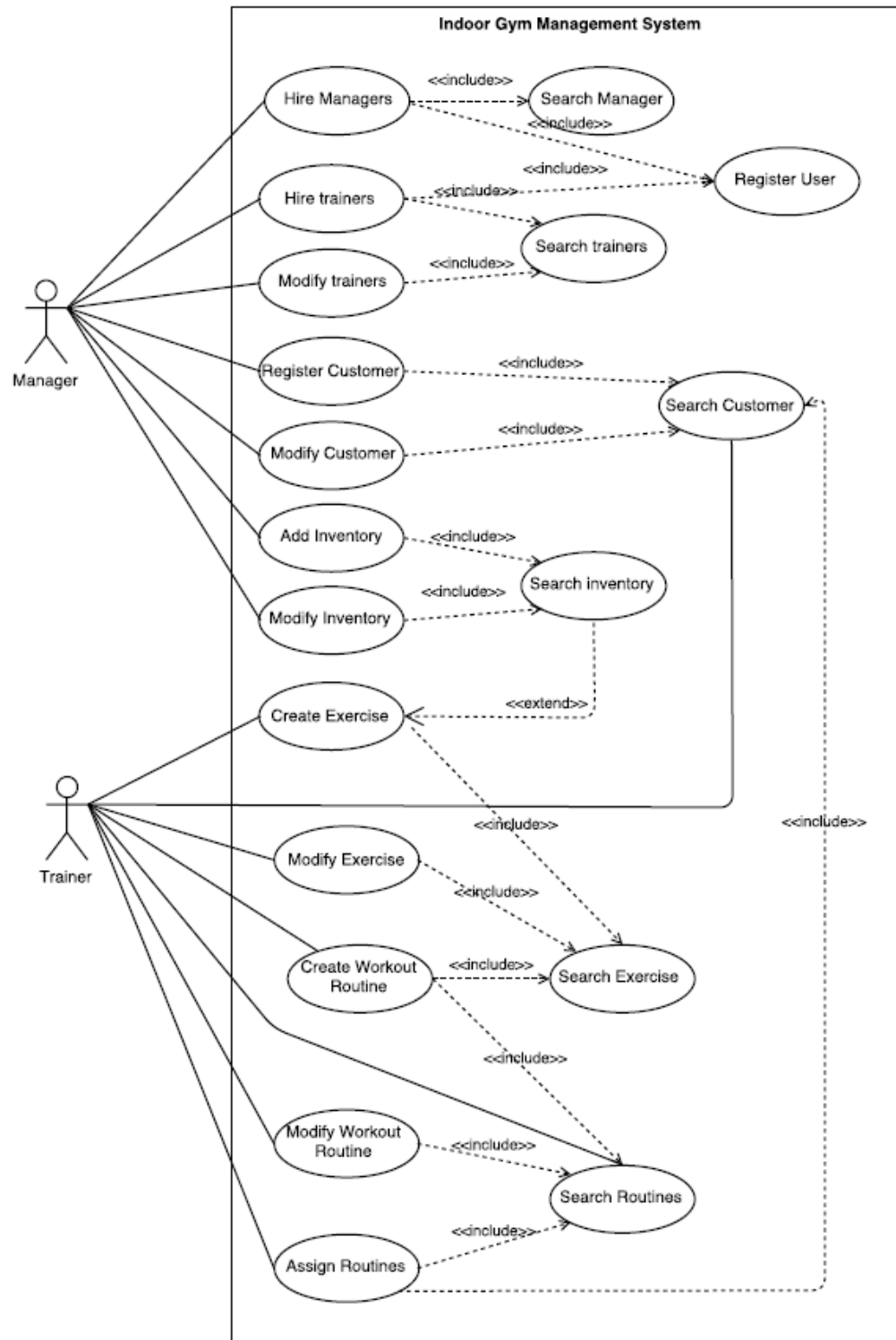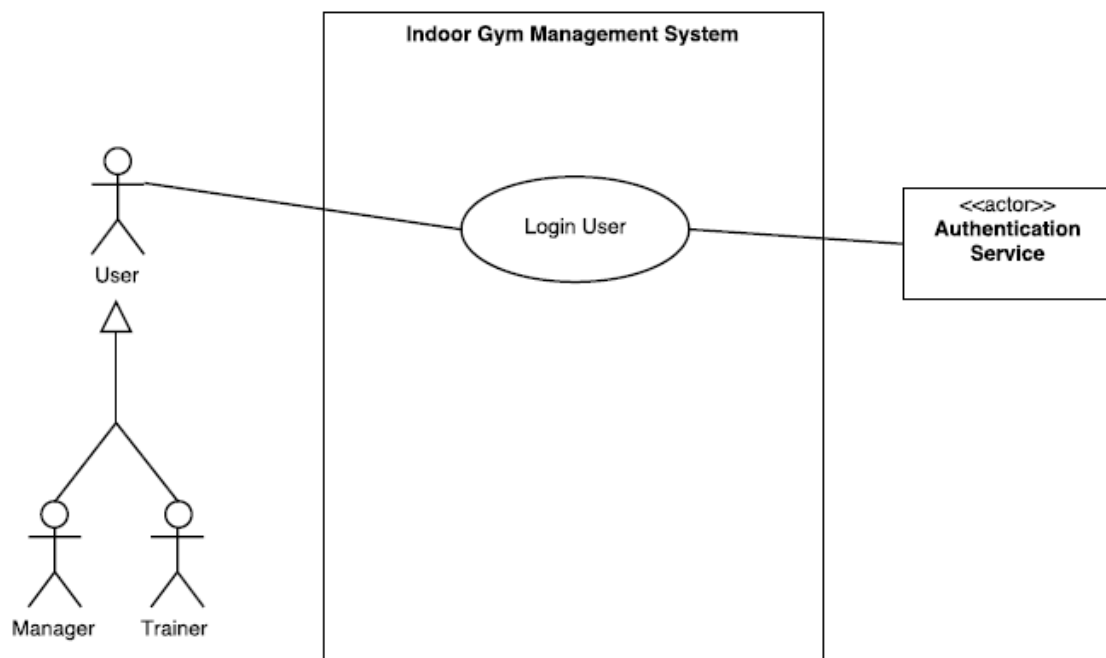**USE CASE DOCUMENT**

Contents

Indoor Gym Management System Use Case Diagram

Indoor Gym Management System Authentication Diagram

Indoor Gym Management System Use Case Descriptions

Use Case Name	UC1: Hire Trainers
Scope	Indoor Gym Management System
Level	User goal
Primary Actor	Manager
Stakeholders and Interests	Manager: Wants employees for the gym Trainer: Wants employment at the gym
Preconditions	User logged into gym system.
Success Guarantee	Trainer is employed at the gym.

Main Success Scenario	1. Include (UC5: Search Trainers) 2. If trainer is not found, manager enters trainer into the system. 3. Include(UC18: Register User)
Extensions	None

Use Case Name	UC2: Register Customer
Scope	Indoor Gym Management System
Level	User goal
Primary Actor	Manager
Stakeholders and Interests	Manager: Wants customers for the gym. Trainers: Wants customers for the gym.
Preconditions	User logged into gym system.
Success Guarantee	Customer is added to gym system.
Main Success Scenario	1. Include (UC7: Search Customers) 2. If customer is not found, add in customer information into gym system.
Extensions	None

Use Case Name	UC3: Add Inventory
Scope	Indoor Gym Management System
Level	User goal
Primary Actor	Manager
Stakeholders and Interests	Manager: Wants equipment inventory for the gym. Trainers: Wants equipment inventory for the gym.
Preconditions	User logged into gym system.

Success Guarantee	Equipment is added to inventory.
Main Success Scenario	1. Include(UC:9 Search Inventory) 2. If equipment does not exist, add equipment into gym system.
Extensions	None

Use Case Name	UC5: Search Trainers
Scope	Indoor Gym Management System
Level	User goal
Primary Actor	Manager
Stakeholders and Interests	Manager: Wants to get trainer information.
Preconditions	User logged into gym system.
Success Guarantee	Trainer information is returned.
Main Success Scenario	1. Check gym system for a specific trainer. 2. If trainer exists, return the trainer's information.
Extensions	1. Extends (UC1: Hire Trainers) a. If trainer does not exist, provide the option to add the trainer.

Use Case Name	UC6: Modify Customers
Scope	Indoor Gym Management System
Level	User goal
Primary Actor	Manager
Stakeholders and Interests	Manager: Wants correct customer information. Trainers: Want correct customer information.

Preconditions	User logged into gym system. Customer must exist in gym system.
Success Guarantee	Customer information is updated.
Main Success Scenario	1. Include (UC7: Search Customers) 2. Update the customer information 3. Put updated information back into the gym system.
Extensions	None

Use Case Name	UC7: Search Customers
Scope	Indoor Gym Management System
Level	User goal
Primary Actor	Manager, Trainer
Stakeholders and Interests	Manager: Wants to get customer information. Trainers: Want to get customer information.
Preconditions	User logged into gym system.
Success Guarantee	Customer information is returned.
Main Success Scenario	1. Check gym system for a specific customer. 2. If customer exists, return the customer's information.
Extensions	1. Extends (UC2: Register Customer) a. If the customer does not exist, provide the option to register customer.

Use Case Name	UC8: Modify Inventory
Scope	Indoor Gym Management System
Level	User goal
Primary Actor	Manager

Stakeholders and Interests	Manager: Wants correct inventory information.
Preconditions	User logged into gym system. Inventory must exist in gym system.
Success Guarantee	Customer information is returned.
Main Success Scenario	1. Include (UC9: Search Inventory) 2. Update the inventory information 3. Put updated information back into the gym system.
Extensions	None

Use Case Name	UC9: Search Inventory
Scope	Indoor Gym Management System
Level	User goal
Primary Actor	Manager
Stakeholders and Interests	Manager: Wants to get inventory information. Trainers: Want to get inventory information.
Preconditions	User logged into gym system.
Success Guarantee	Inventory information is returned.
Main Success Scenario	1. Check gym system for a specific inventory item. 2. If inventory item exists, return the inventory item's information.
Extensions	1. Extends (UC3: Add Inventory) a. If item does not exist in inventory, provide the option to add to inventory.

Use Case Name	UC17: Login User
Scope	Indoor Gym Management System
Level	User goal
Primary Actor	Users
Supporting Actor	Authentication Service
Stakeholders and Interests	Users: Want to access to the gym system.
Preconditions	User exists in system.
Success Guarantee	User is logged into the gym system
Main Success Scenario	1. User enters credentials into the gym system. 2. The gym system uses the authentication service to verify user's credentials. 3. Authentication service returns success or failure. 4. On success, user is logged into the gym system. 5. If the user is a trainer, user is directed to the trainer portal. 6. If the user is a manager, user is directed to the manager portal.
Extensions	None

Use Case Name	UC18: Register User
Scope	Indoor Gym Management System
Level	User goal
Primary Actor	Manager
Stakeholders and Interests	Users: Want to be register with gym system.
Preconditions	At least one manager must exist in the system. User is logged into the gym system.
Success Guarantee	New user can log into the gym system.
Main Success Scenario	1. Manager enters new user credentials into the gym

	system.
	2. The gym system registers the new credentials with the authentication system.
Extensions	None

Use Case Name	UC19: Hire Managers
Scope	Indoor Gym Management System
Level	User goal
Primary Actor	Manager
Stakeholders and Interests	Manager: Wants managers to run the gym system.
Preconditions	At least one manager must exist in system. User is logged into gym system.
Success Guarantee	Manager is employed at the gym.
Main Success Scenario	4. Include (UC20: Search Managers) 5. If manager is not found, manager enters manager into the system. 6. Include(UC18: Register User)
Extensions	None

Use Case Name	UC20: Search Managers
Scope	Indoor Gym Management System
Level	User goal
Primary Actor	Manager
Stakeholders and Interests	Manager: Wants to get manager information.
Preconditions	User is logged into gym system.

Success Guarantee	Manager information is returned.
Main Success Scenario	1. Check gym system for a specific manager. 2. If manager exists, return the manager's information.
Extensions	1. Extends (UC19: Hire Managers) a. If manager does not exist, provide the option to add the manager.

Use Case Name	UC10: Create Exercise
Scope	Indoor Gym Management System
Level	User goal
Primary Actor	Trainer
Stakeholders and Interests	Trainer: Wants to enter a new exercise into the system
Preconditions	User logged into gym system.
Success Guarantee	New exercise is created

Main Success Scenario	1. Include: UC11 Search exercise
	2. If exercise is not found trainer starts an entry for a new exercise
	
	  Extension point: UC9 Search Inventory
	    a. Equipment details are displayed
	    b. Trainer assigns equipment to exercise
	
	3. Trainer enters exercise duration or number of sets and repetitions per set.
	4. Trainer saves new exercise

Extensions	None

Use Case Name	UC11: Search Exercise

Scope	Indoor Gym Management System
Level	User goal
Primary Actor	Trainer
Stakeholders and Interests	Trainer: Wants to search for an exercise in the system
Preconditions	User logged into gym system
Success Guarantee	The exercise is found
Main Success Scenario	1. Trainer starts a search for an exercise 2. Exercise is found 3. Exercise details are displayed
Extensions	1. Exercise is not found Extension Point: UC10: Create Exercise

Use Case Name	UC12: Modify Exercise
Scope	Indoor Gym Management System
Level	User goal
Primary Actor	Trainer
Stakeholders and Interests	Trainer: Wants to modify an exercise
Preconditions	1. User logged into gym system. 2. Exercise exists in the system
Success Guarantee	Exercise is modified
Main Success Scenario	1. Include: UC11 Search Exercise 2. Exercise is found 3. Trainer modifies the exercise 4. Trainer saves modifications
Extensions	None

Use Case Name	UC13: Create Workout Routine
Scope	Indoor Gym Management System
Level	User goal
Primary Actor	Trainer
Stakeholders and Interests	Trainer: Wants to create workout routine
Preconditions	1. User logged into gym system. 2. At least one exercise exists in the system
Success Guarantee	Workout routine is created
Main Success Scenario	1. Include UC14: Search Workout Routine 2. If routine is not found trainer starts an entry for a new workout routine 3. Include: UC11 Search Exercise 4. Exercise details are displayed 5. Trainer assigns exercise to workout routine 6. Trainer repeats steps 3-5 till he adds all the exercises to the routine 7. Trainer saves workout routine
Extensions	None

Use Case Name	UC14: Search Workout Routine
Scope	Indoor Gym Management System
Level	User goal
Primary Actor	Trainer
Stakeholders and Interests	Trainer: Wants to search workout routines
Preconditions	User logged into gym system
Success Guarantee	Workout routine is found

Main Success Scenario	1. Trainer starts a search for workout routine 2. Workout routine is found 3. Workout routine details are displayed
Extensions	1. Workout routine is not found Extension Point UC13: Create workout routine

Use Case Name	UC15: Modify Workout Routines
Scope	Indoor Gym Management System
Level	User goal
Primary Actor	Trainer
Stakeholders and Interests	Trainer: Wants to modify workout routines
Preconditions	1. User logged into gym system. 2. Workout routine exists in the system
Success Guarantee	Workout is modified successfully
Main Success Scenario	1. Include: UC14 Search Workout Routine 2. Workout routine results are displayed 3. Trainer modifies workout routine 4. Trainer saves the modifications
Extensions	None

Use Case Name	UC16: Assign Workout Routines
Scope	Indoor Gym Management System
Level	User goal
Primary Actor	Trainer
Stakeholders and Interests	Trainer: Wants to assign workout routine(s) to a customer

Preconditions	1. User logged into gym system. 2. At least one workout routine exists in the system 3. At least one customer exists in the system
Success Guarantee	Workout is assigned successfully
Main Success Scenario	1. Include UC7: Search Customers 2. Customer details are displayed 3. Include UC 14: Search Workout Routine 4. Workout routine details are displayed 5. Trainer assigns workout routine to customer. 6. Trainer repeats steps 4-5 till all the desired workout routines are assigned to the customer.
Extensions	None