Use Cases Detailed

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P1 - CS414

Use Case ID: 1

Use Case Name: Hire Trainer

Overview: Manager Hires Trainer

Primary Actor: Manager

Secondary Actor: Trainer

Preconditions: Manager is logged into the system, and is provided necessary information from trainer

Personal: (Full name, address, phone number, email address, and Health Insurance Provider)

Work: (Work Hours and Qualifications)

Flow:

1: Manager gathers information given to them by Trainer

2: Manager uses add Trainer Section to enter personal and work information

3: Trainer is assigned an ID

4: Trainer is created in system on submission

Post Conditions:

1: Trainer has been created in the system

2: Trainer can be found through ID search

Alternative Flows:

1. Not enough information is provided by new trainer, information must be regathered

Use Case ID: 2

Use Case Name: Register Customer

Overview: Manager registers a new customer into system

Primary Actor: Manager

Secondary Actor: Customer

Preconditions: Manager is logged into the system, and is provided necessary information from customer

Personal: (Full name, address, phone number, email address, and Health Insurance Provider)

Membership: (Active or Inactive)

Flow:

1: Manager gathers information given to them by customer

2: Manager uses add Customer Section to enter personal membership information

3: Customer is assigned an ID

4: Customer is created in system on submission

Post Conditions:

1: Customer has been created in the system

2: Customer can be found through ID search

Alternative Flows:

1. Not enough information is provided by new customer, information must be regathered

Use Case ID: 3

Use Case Name: Inventory of Equipment

Overview: Manager Enters Equipment Into Inventory

Primary Actor: Manager

Secondary Actor: None

Preconditions: Manager is logged into the system

Flow:

1: Manager gathers information about the equipment

2: Manager uses the Add Equipment Section under inventory

2: Manager Enters information about equipment including name and quantity

3: Manager Attaches an image to

4: Equipment is entered into inventory on submission

Post Conditions:

1: Equipment is available in inventory system

2: Equipment can be searched and found by name

3: Equipment can be assigned to workout routine

4: Equipment information can be modified by manager

Alternative Flows: None

Use Case ID: 4

Use Case Name: Modify Trainer Information

Overview: Manager Modifies Trainer Information

Primary Actor: Manager

Secondary Actor: Trainer

Preconditions: Manager is logged into the system, and is provided necessary information from trainer that they wish to change.

Personal: (Full name, address, phone number, email address, and Health Insurance Provider)

Work: (Work Hours and Qualifications)

Flow:

1: Manager gathers new information they wish to change

2: Manager searches for trainer through the find a trainer system using their ID

3: Manager uses Edit Information feature under trainer

4: Manager changes the fields the wish to modify

5: Trainer information is submitted

Post Conditions:

1: Trainer information has been updated upon submission

2: New information can be found in trainer search details

Alternative Flows:

1. Manager attempts to change Employee ID
   1. This is not allowed, as employee ID is unique and assigned to workouts and customers
   2. This is allowed, employee ID is updated, as well as workouts and customers

Use Case ID: 5

Use Case Name: Modify Customer Information

Overview: Manager Modifies Customer Information

Primary Actor: Manager

Secondary Actor: Customer

Preconditions: Manager is logged into the system, and is provided necessary information from customer that they wish to change.

Personal: (Full name, address, phone number, email address, and Health Insurance Provider)

Membership: (Active or Inactive)

Flow:

1: Manager gathers new information they wish to change

2: Manager searches for customer through the find a trainer system using their ID

3: Manager uses Edit Information feature under customer

4: Manager changes the fields the wish to modify

5: Customer information is submitted

Post Conditions:

1: Customer information has been updated upon submission

2: New information can be found in trainer search details

Alternative Flows:

1. Manager attempts to change customer ID
   1. This is not allowed, as customer ID is unique and assigned to trainers and routines
   2. This is allowed, employee ID is updated, as well as routines and customers

Use Case ID: 6

Use Case Name: Modify Equipment Information

Overview: Manager Modifies Equipment Information

Primary Actor: Manager

Secondary Actor: None

Preconditions: Manager is logged into the system, and has obtained the information about the equipment they wish to change

Flow:

1: Manager gathers new information they wish to change

2: Manager searches for equipment through the find equipment system in inventory

3: Manager uses Edit Information feature under equipment

4: Manager changes the fields the wish to modify

5: Equipment information is submitted

Post Conditions:

1: Equipment information has been updated upon submission

2: New information can be found in equipment search details

Alternative Flows:

1. Manager attempts to change equipment name
   1. This is not allowed, as equipment name is unique and assigned to routines that are assigned to trainers and customers
   2. This is allowed, equipment name is updated, as well as routines
2. Manager removes item from inventory
   1. Routines using this equipment must be made inactive
   2. Customers assigned routines using this equipment must be made inactive for customers and trainers
3. Quantity of equipment has been increased
   1. Routines that use this equipment may need be updated to allow more people to be assigned this routine

Use Case ID: 7

Use Case Name: Create Workout Routine

Overview: Trainer Creates a New Workout Routine

Primary Actor: Trainer

Secondary Actor: None

Preconditions: Trainer is logged into the system, and is has obtained necessary information to create a new routine

Routine: (Name, series of exercises, Equipment (optional), duration, repitions)

Flow:

1: Trainer gathers new information for their routine

2: Trainer uses the create workout section of the application under routine

3: Trainer enters data about the workout including optional equipment if needed

4: Trainer submits the new workout

Post Conditions:

1: Workout is available and searchable in system

2: Workout information is correct and accurate with what the trainer entered

3: Workout can be assigned to customers

Alternative Flows:

1. Trainer attempts to create a workout with no duration
   1. This is not allowed, duration is required and workout is not created, error message
2. Trainer attempts to create a workout using equipment
   1. Equipment is verified as valid equipment in inventory
   2. Equipment quantity is checked to make sure we have equipment in stock
3. Trainer attempts to make a workout with the same name as another trainers workout
   1. Workout is not created, name must be unique
   2. Trainer is asked if they would like to see the other trainers workout in-case they would like to use it

Use Case ID: 8

Use Case Name: Modify a Workout Routine

Overview: Trainer Modifies a Workout Routine Information

Primary Actor: Trainer

Secondary Actor: None

Preconditions: Trainer is logged into the system, and is has obtained necessary information to modify an existing routine

Routine: (Name, series of exercises, Equipment (optional), duration, repitions)

Flow:

1: Trainer gathers new information for their routine

2: Trainer uses the search for workout section of the application under routine

3: Trainer clicks edit this workout

4: Trainer enters data about the workout they wish to change

5: Trainer submits the new workout

Post Conditions:

1: Workout is still available and searchable in system

2: Workout information is correct and accurate with what the trainer has modified

3: Workout can still be assigned to customers

4: Workout resources and customers are still assigned to workout

Alternative Flows:

1. Trainer attempts to modify a workout to have no duration
   1. This is not allowed, duration is required and workout is not created, error message
2. Trainer attempts to modify a workout to use equipment
   1. Equipment is verified as valid equipment in inventory
   2. Equipment quantity is checked to make sure we have equipment in stock
3. Trainer attempts to modify a workout to have the same name as another trainer’s workout
   1. Workout is not created, name must be unique
   2. Trainer is asked if they would like to see the other trainer’s workout in-case they would like to use it
4. Customer is already assigned this workout
   1. Customers assigned workout information is updated with information changed if necessary
   2. New workout information would show up under search
5. Equipment once assigned to this workout is no longer assigned
   1. Equipment is removed from workout list

Use Case ID: 9

Use Case Name: Workout Routine Assignment

Overview: Trainer assigns workout routine to customer

Primary Actor: Trainer

Secondary Actor: Customer

Preconditions: Trainer is logged into the system, already has customer’s in mind to assign this workout to

Flow:

1: Trainer gathers customers they wish to assign routine to

2: Trainer uses the search for workout section of the application under routine

3: Trainer clicks assign this workout

4: Trainer enters data about the customer they wish to assign this workout to

5: Trainer submits the new assignment

Post Conditions:

1: Workout is still available and searchable in system

2: Customer has been assigned the workout to their schedule

3: Customer can be found by being searched for by workout

Alternative Flows:

1. Trainer attempts to assign a workout to an inactive customer
   1. Only active customers can be assigned workouts, workout is not assigned
2. Trainer attempts to assign a workout to an overloaded customer
   1. Customer already has a workout assigned to them for this time, or have reached their limit (if decided by gym) workout is not assigned
3. Trainer attempts to assign workout to Customer that does not exist
   1. Workout is not assigned to anyone, as customer does not exist
4. Trainer attempts to assign workout that does not exist to customer
   1. Customer is not assigned any workout
5. Trainer attempts to assign workout that no longer has the necessary equipment available
   1. Customer is not assigned the workout due to lack of equipment
   2. Workout is deactivated in the system until inventory is available

Use Case ID: 10

Use Case Name: Customer and routine search

Overview: Trainer searches for customers to check their routines or for routine to check assigned customers

Primary Actor: Trainer

Secondary Actor: Customers

Preconditions: Trainer is logged into the system, and is has obtained necessary information to search for the correct customer or routine they wish to find information about.

Flow:

1: Trainer gathers new information for their search

2: Trainer uses the routine search function

3: Trainer identifies which criteria they are searching by (customer or workout)

4: Trainer enters search criteria

5: Trainer submits the search

Post Conditions:

1: List of customers, or workouts is retrieved

2: Data is accurate

Alternative Flows:

1. Trainer attempts to find information on a customer that does not exist
   1. No customer workout information is returned customer does not exist
2. Trainer attempts to find information about a workout that does not exist in system
   1. No customer information is returned as no customers are assigned the non-existant workout
3. Trainer attempts to search for an inactive customer
   1. Customer information is returned, inactive customers have their routine information stored in-case of re-activation
4. Trainer attempts to search for inactive workout
   1. Last known list of customers assigned workout are returned as workout will be re-activated when equipment is available in inventory.