**Use Cases:** Betty Jo Booth (JAM)

**Employee (Manager or Trainer)** CS414

* Login
* Create New User
* Search

**Manager Trainer:**

* Hire Trainer - Create Workout Routine
* Register New Customer - Modify Workout Routine
* Inventory New Equipment - Assign workout Routine(s) to Customer
* Modify Trainer - View Customer Workout Routines
* Modify Customer - View Workout Routine Customers
* Modify Equipment Inventory

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| **Use Case Section** | **Comment** |
| **Use Case Name** | Login |
| **Actors** | Employee [primary, initiator] |
| **Preconditions** | Gym Management software has been successfully launched by employee and login screen is displayed. |
| **Postconditions** | Employee is logged in and list of valid options displayed to select from based on the employee type a/w their user information (manager, trainer, etc.) |
| **Main Success Scenario** | *[Extension point: Create New User]*  1. Employee enters username.  2. Employee enters password.  *3. Employee initiates choice of login option (i.e., through some form of interface – button, link, return key, etc.).* |
| **Extensions** | 3a. Employee elects to login  1a. Login is successful. See Postconditions.  1b. Login fails.   1. Login view redisplayed prepopulated with prior input and invalid fields marked / identifiable to user   . *Employee repeats 1-3 of Main Success Scenario*.  3b. Employee elects to cancel login. Application closes. |
| **Miscellaneous** |  |

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| **Use Case Section** | **Comment** |
| **Extension Use Case Name** | Create New User |
| **Actors** | Employee [primary, initiator] |
| **Preconditions** | User had launched the Gym Management system and selected to “create a new user” (i.e., from the login view). Only an existing employee will be able to create a username / password. |
| **Postconditions** | The new user information is saved and the employee is again prompted to login. Information saved includes the username, password, and associated employee id. The employee id will allow the system to know what type of user it is (manager, trainer, etc.) to know permissions employee can have. |
| **Main Success Scenario** | 1. Employee enters username.  2. Employee enters password.  3. Employee enters employee id (must be existing employee).  4. Employee submits request to system |
| **Extensions** | 4a. Employee elects to “save” new user information.  1a. Save is successful. See Postconditions.  1b. Save fails.   1. Create view redisplayed, prepopulated with prior input and invalid fields marked / identifiable to user   . *Employee repeats 1-4 of Main Success Scenario*  4b. Employee elects to cancel. Create New User view exits. |
| **Miscellaneous** |  |

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| **Use Case Section** | **Comment** |
| **Use Case Name** | Search |
| **Actors** | Employee |
| **Preconditions** | Search on criteria specified in U.C. that includes this one. If not found, if fount, display. Etc. TRY TO MAKE THIS GENERIC U.C. |
| **Postconditions** |  |
| **Main Success Scenario** |  |
| **Extensions** |  |
| **Miscellaneous** |  |

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| **Use Case Section** | **Comment** |
| **Use Case Name** | Hire New Trainer |
| **Actors** | **Manager** [primary, initiator]: wants to input new Trainer information and be able to review saved information for accuracy.  Trainer: Wants to be successfully entered into the system. Optionally (if accompanying manager) wants to be able to review saved information for accuracy.  Gym: Wants their new employee entered into the system. |
| **Preconditions** | - User is logged in and elected to “Hire New Trainer” from a valid list of user options. Therefore, the Actor is in fact a manager. |
| **Postconditions** | Trainer information is successfully saved. Saved information will be displayed for review, then User will be provided valid set of next options. |
| **Main Success Scenario** | 1. Manager enters Trainer’s personal information.  a. First name  b. Last name  c. address (street, city, state, zip)  d. phone  e. email  f. health insurance provider (name)  2. Manager enters work information  a. work hours  b. qualifications.  c. Employee ID (unique – new employee expected or error).  3. Manager submits request to system |
| **Extensions** | 3a. Manager elects to “save” new Trainer information.  1a. Save is successful. See Postconditions.  1b. Save fails.  1a. Duplicate employee ID.   1. Inform user that employee ID already exists and the new employee could not be created. 2. Create view is redisplayed, prepopulated with prior input.   1b. Error with 1 or more remaining fields.   1. Create view redisplayed, prepopulated with prior input, and Invalid fields marked/identifiable to user.   . 2. *Manager repeats 1-3 of Main Success Scenario*  3b. Manager elects to cancel. Create New Trainer exits. |
| **Miscellaneous** | 1. What do qualifications do? Just displayed as part of info saved. |

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| **Use Case Section** | **Comment** |
| **Use Case Name** | Register New Customer |
| **Actors** | **Manager** [primary, initiator]: wants to input new Customer information and be able to review saved information for accuracy.  Customer: Wants to be successfully entered into the system. Optionally (if accompanying manager) wants to be able to review saved information for accuracy.  Gym: Wants their new customer entered into the system. |
| **Preconditions** | - User is logged in and elected to “Register New Customer” from a valid list of user options. Therefore, the Actor is in fact a manager. |
| **Postconditions** | Customer information is successfully saved. Saved information will be displayed for review, then User will be provided valid set of next options. |
| **Main Success Scenario** | 1. Manager enters Customer’s personal information.  a. First name  b. Last name  c. address (street, city, state, zip)  d. phone  e. email  f. health insurance provider (name)  2. Manager enters work information  a. Status  b. Customer ID (unique – new customer expected or error).  3. Manager submits request to system |
| **Extensions** | 3a. Manager elects to “save” new Customer information.  1a. Save is successful. See Postconditions.  1b. Save fails.  1a. Duplicate customer ID.   1. Inform user that customer ID already exists and the new employee could not be created. 2. Create view is redisplayed, prepopulated with prior input.   1b. Error with 1 or more remaining fields.   1. Create view redisplayed, prepopulated with prior input, and Invalid fields marked/identifiable to user.   . 2. *Manager repeats 1-3 of Main Success Scenario*  3b. Manager elects to cancel. Create New Trainer exits. |
| **Miscellaneous** |  |

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| **Use Case Section** | **Comment** |
| **Use Case Name** | Inventory New Equipment |
| **Actors** | **Manager** [primary, initiator]: wants to input new Equipment information and be able to review saved information for accuracy.  Trainer: At a later time, will want to be able to assign equipment to a customer’s workout.  Gym: Wants to be able to accurately inventory their equipment. |
| **Preconditions** | - User is logged in and elected to “Inventory Equipment” from a valid list of user options. Therefore, the Actor is in fact a manager. |
| **Postconditions** | Equipment is successfully saved. Saved information will be displayed for review, then User will be provided valid set of next options. |
| **Main Success Scenario** | 1. Manager enters Equipment information.  a. name (unique)  b. picture  c. quantity  2. Manager submits request to system |
| **Extensions** | 2a. Manager elects to “save” new Equipment information.  1a. Save is successful. See Postconditions.  1b. Save fails.  1a. Duplicate equipment name.   1. Inform user that equipment already exists and the new entry could not be created. 2. Create view is redisplayed, prepopulated with prior input.   1b. Error with remaining fields.   1. Create view redisplayed, prepopulated with prior input, and Invalid fields marked/identifiable to user.   . 2. *Manager repeats 1-2 of Main Success Scenario*  2b. Manager elects to cancel. Create New Trainer exits. |
| **Miscellaneous** |  |

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| **Use Case Section** | **Comment** |
| **Use Case Name** | Modify Trainer |
| **Actors** | **Manager** [primary, initiator]: Wants to update or delete existing Trainer information, and be able to review modified information or see delete confirmation for accuracy.  Trainer: Wants to be successfully updated in / removed from the system. Optionally (if accompanying manager) wants to be able to review confirmation of changes for accuracy.  Gym: Wants employee information to remain up to date. |
| **Preconditions** | - User is logged in and elected to “Modify Trainer” from a valid list of user options. Therefore, the Actor is in fact a manager.  - Trainer exists in system with a valid Employee ID which cannot be modified. |
| **Postconditions** | Any changes made to the Trainer are updated to the system. User will be able to review current information and/or delete confirmation. |
| **Main Success Scenario** | 1. Manager searches for Trainer.  2. Trainer’s information is displayed to the Manager to be modified.  3. Employee ID is a unique identifier and **cannot be** updated (not editable). Changing the ID will require deleting an existing Trainer and creating a new one.  4. Manager may otherwise update one or more of personal information:  a. First name  b. Last name  c. address (street, city, state, zip)  d. phone  e. email  f. health insurance provider (name)  5. Manager my also update one or more of work information  a. work hours  b. qualifications.  6. Manager submits request to system |
| **Extensions** | 1a. Trainer cannot be found.  1a. Manager returns to step 1 of “Main Success Scenario.”  1b. Manager determines Trainer does not exist in system and  cancels the modification.  6a. Manager elects to “save” updates to Trainer information.  1a. Save is successful. See Postconditions.  1b. Save fails.  1a. System unable to find existing employee ID.   1. Inform user to contact System Administrator.   1b. Error with 1 or more fields.   1. Modify Trainer view redisplayed, prepopulated with prior input, and Invalid fields marked/identifiable to user.   . 2. *Manager repeats 4-6 of Main Success Scenario*  6b. Manager elects to delete Trainer from the system.  1a. Delete is successful. User is given confirmation and  Postconditions occur.  1b. Delete fails (unexpected since Trainer was already located  on search). Contact system administrator.  6c. Manager elects to cancel. Modify Trainer exits. |
| **Miscellaneous** |  |

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| **Use Case Section** | **Comment** |
| **Use Case Name** | Modify Customer |
| **Actors** | **Manager** [primary, initiator]: Wants to update or delete existing Customer information, and be able to review modified information or see delete confirmation for accuracy.  Customer: Wants to be successfully updated in / removed from the system. Optionally (if accompanying manager) wants to be able to review confirmation of changes for accuracy.  Gym: Wants Customer information to remain up to date. |
| **Preconditions** | - User is logged in and elected to “Modify Customer” from a valid list of user options. Therefore, the Actor is in fact a manager.  - Customer exists in system with a valid Customer ID which cannot be modified. |
| **Postconditions** | Any changes made to the Trainer are updated to the system. User will be able to review current information and/or delete confirmation. |
| **Main Success Scenario** | 1. Manager searches for Customer.  2. Customer’s information is displayed to the Manager to be modified.  3. Customer ID is a unique identifier and **cannot** be updated (not editable). Changing the ID will require deleting an existing Customer and creating a new one.  4. Manager may otherwise update one or more of personal information:  a. First name  b. Last name  c. address (street, city, state, zip)  d. phone  e. email  f. health insurance provider (name)  5. Manager my also update one or more of work information  a. status  b. qualifications.  6. Manager submits request to system |
| **Extensions** | 1a. Customer cannot be found.  1a. Manager returns to step 1 of “Main Success Scenario.”  1b. Manager determines Customer does not exist in system  and cancels the modification.  6a. Manager elects to “save” updates to Customer information.  1a. Save is successful. See Postconditions.  1b. Save fails.  1a. System unable to find existing customer ID.   1. Inform user to contact System Administrator.   1b. Error with 1 or more fields.   1. Modify Customer view redisplayed, prepopulated with prior input, and Invalid fields marked/identifiable to user.   . 2. *Manager repeats 4-6 of Main Success Scenario*  6b. Manager elects to delete Customer from the system.  1a. Delete is successful. User is given confirmation and  Postconditions occur.  1b. Delete fails (unexpected since Customer was already  located on search). Contact system administrator.  6c. Manager elects to cancel. Modify Customer exits. |
| **Miscellaneous** |  |

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| **Use Case Section** | **Comment** |
| **Use Case Name** | Modify Equipment Inventory |
| **Actors** | **Manager** [primary, initiator]: Wants to update or delete existing inventories equipment, and be able to review modified information or see delete confirmation for accuracy.  Gym: Wants employee information to remain up to date. |
| **Preconditions** | - User is logged in and elected to “Modify Equipment Inventory” from a valid list of user options. Therefore, the Actor is in fact a manager.  - Equipment exists in system with a unique name identifying it. Its name cannot be modified. Only the quantity. |
| **Postconditions** | Any changes made to the inventoried equipment are updated to the system. Manager will be able to review current information (after update) and/or a delete confirmation. |
| **Main Success Scenario** | 1. Manager searches for Equipment.  2. Equipment information is displayed to the Manager to be modified.  3. Equipment name is a unique identifier and **cannot be** updated (not editable). Changing the name will require deleting an existing Trainer and creating a new one.  4. Manager may otherwise update the following:  a. quantity available.  b. picture  5. Manager submits request to system |
| **Extensions** | 1a. Equipment cannot be found.  1a. Manager returns to step 1 of “Main Success Scenario.”  1b. Manager determines Equipment does not exist in system  and cancels the modification.  5a. Manager elects to “save” updates to Equipment information.  1a. Save is successful. See Postconditions.  1b. Save fails.  1a. System unable to find existing equipment.   1. Inform user to contact System Administrator.   1b. Error with 1 or more fields.   1. Modify Equipment view redisplayed, prepopulated with prior input, and Invalid fields marked / identifiable to user.   . 2. *Manager repeats 4-5 of Main Success Scenario*  5b. Manager elects to delete Equipment from the system.  1a. Delete is successful. User is given confirmation and  Postconditions occur.  1b. Delete fails (unexpected since Equipment was already l  located on search). Contact system administrator.  5c. Manager elects to cancel. Modify Equipment exits. |
| **Miscellaneous** |  |

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| **Use Case Section** | **Comment** |
| **Use Case Name** | Create Workout Routine |
| **Actors** | **Trainer** [primary, initiator]: wants to input new Trainer information and be able to review saved information for accuracy.  Customers: Wants workout routines to be created that will later be available to be assigned to them.  Gym: Wants workout routines to be created to be provided to customers which increase their satisfaction. |
| **Preconditions** | - User is logged in and elected to “Create Workout Routine” from a valid list of user options. Therefore, the Actor is in fact a Trainer. |
| **Postconditions** | Workout routine is successfully saved. Saved information will be displayed for review, then Trainer will be provided valid set of next options. |
| **Main Success Scenario** | 1. Trainer enters information for Workout Routine.  a. Name of Workout Rountine  b. Selects one more exercises from an available list.  OR ARE EXERCISES MODIFIED W/IN THIS PAGE??  Think view list of and check ones you want to use.  2. Manager submits request to system |
| **Extensions** | 2a. Trainer elects to “save” new Workout Routine information.  1a. Save is successful. See Postconditions.  1b. Save fails.  1a. Duplicate Workout Routine name.   1. Inform user that Workout Routine already exists and the new entry could not be created. 2. Create view is redisplayed, prepopulated with prior input.   1b. Error with remaining fields.   1. Create view redisplayed, prepopulated with prior input, and Invalid fields marked/identifiable to user.   . 2. *Manager repeats 1-2 of Main Success Scenario*  2b. Manager elects to cancel. Create Workout Routine exits. |
| **Miscellaneous** | Are exercises managed separately to pick from? |

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| **Use Case Section** | **Comment** |
| **Use Case Name** | Modify Workout Routine |
| **Actors** | **Trainer** [primary, initiator]: wants to update or delete existing Workout Routine information, and be able to review modified information or see Delete confirmation for accuracy.  Customers: Wants workout routines to be managed that will later be available to be assigned to them.  Gym: Wants workout routines to be managed to be provided to customers which increase their satisfaction. |
| **Preconditions** | - User is logged in and elected to “Modify Workout Routine” from a valid list of user options. Therefore, the Actor is in fact a Trainer. |
| **Postconditions** | Workout routine is successfully saved. Saved information will be displayed for review, then Trainer will be provided valid set of next options. If Deleted, a successful delete notification will be given. |
| **Main Success Scenario** | 1. Trainer searches for Workout Routine.  2. Workout Routine is displayed to the Trainer to be modified.  3. Workout Routine name is a unique identifier and **cannot be** updated (not editable). Changing the name will require deleting an existing Workout Routine and creating a new one.  4. Trainer may otherwise update one or more following information:  a. Selects one more exercises from listed available.  OR ARE EXERCISES MODIFIED W/IN THIS PAGE??  Think view list of and check ones you want to use.  5. Trainer submits request to system |
| **Extensions** | 1a. Workout Routine cannot be found.  1a. Trainer returns to step 1 of “Main Success Scenario.”  1b. Trainer determines Workout Routine does not exist in system and cancels the modification.  5a. Manager elects to “save” updates to Workout Routine  information.  1a. Save is successful. See Postconditions.  1b. Save fails.  1a. System unable to find existing Workout Routine.   1. Inform user to contact System Administrator.   1b. Error with 1 or more fields.   1. Modify Workout Routine view redisplayed, prepopulated with prior input, and Invalid fields marked/identifiable to user.   . 2. *Manager repeats 4-5 of Main Success Scenario*  5b. Trainer elects to delete Workout Routine from the system.  1a. Delete is successful. User is given confirmation and  Postconditions occur.  1b. Delete fails (unexpected since Workout Routine was  already located on search). Contact system administrator.  5c. Manager elects to cancel. Modify Workout Routine exits. |
| **Miscellaneous** |  |

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| **Use Case Section** | **Comment** |
| **Use Case Name** | Assign Workout Routines to Customer |
| **Actors** | **Trainer** [primary, initiator]: wants to assign workout routines to customer.  Customers: Wants trainer to successfully assign workout routine to them.  Gym: Wants workout routines to be allowed to be associated with Customers which increase their satisfaction with their workout. |
| **Preconditions** | - User is logged in and elected to “Assign Workout Routines to Customer” from a valid list of user options. Therefore, the Actor is in fact a Trainer.  - To be assigned workouts, customer must be Active status. This will be verified on search. |
| **Postconditions** | One or more workout routines have successfully been associated with the current Customer. Saved information will be displayed for review, then Trainer will be provided valid set of next options. |
| **Main Success Scenario** | 1. Trainer searches for Customer.  2. Trainer selects one or more Workout Routines from available Workout Routines which are displayed.  3. Trainer submits request to system |
| **Extensions** | 1a. Customer cannot be found.  1a. Trainer returns to step 1 of “Main Success Scenario.”  1b. Trainer determines Customer does not exist in system and cancels the modification.  1b. Customer not Active status.   1. Display error message. TBD if will display read only, allow option to activate, or exist “Assign Workout Routines to Customer.   3a. Trainer elects to “save” updates to Customer.  1a. Save is successful. See Postconditions.  1b. Save fails.  1a. System unable to find existing Customer.   1. Inform user to contact System Administrator. Customer was searched on and should exist.   3b. Manager elects to cancel. Exit “Assign Workout Routines to Customer.” |
| **Miscellaneous** |  |

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| **Use Case Section** | **Comment** |
| **Use Case Name** | View Customer Workout Routines |
| **Actors** | **Trainer** [primary, initiator]: wants to view all Workout Routines associated with a given Customer.  Customers: Wants trainer to be able to review their Workout Routines to assist with workout.  Gym: Wants trainer to be able to view and understand Workout Routines associated with Customers in order to increase quality of workout and Customer satisfaction. |
| **Preconditions** | - User is logged in and elected to “View Customer Workout Routine” from a valid list of user options. Therefore, the Actor is in fact a Trainer.  - Customer is Active status. |
| **Postconditions** | All Workout Routines for a given Customer are displayed. No updates are saved. Access to “Assign Workout Routines to Customers is a possibility. |
| **Main Success Scenario** | 1. Trainer searches for Customer.  2. Trainer reviews displayed list of Workout Routines currently associated with Customer. |
| **Extensions** | 1a. Customer cannot be found.  1a. Trainer returns to step 1 of “Main Success Scenario.”  1b. Trainer determines Customer does not exist in system and cancels the modification.  1b. Customer not Active status.   1. Display error message. TBD if will display read only, allow option to activate, or exist “Assign Workout Routines to Customer. |
| **Miscellaneous** |  |

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| **Use Case Section** | **Comment** |
| **Use Case Name** | View Workout Routine Customers |
| **Actors** | **Trainer** [primary, initiator]: wants to view all Active Customers who are Active and can be assigned the given Workout Routine.  Customers: Wants trainer to be able to review if they can perform a given Workout Routine.  Gym: Wants trainer to be able to view and understand Workout Routines / Customer associations in order to increase quality of workout and Customer satisfaction. |
| **Preconditions** | - User is logged in and elected to “View Workout Routine Customers” from a valid list of user options. Therefore, the Actor is in fact a Trainer. |
| **Postconditions** | All Customers capable of performing the specified (searched) Workout Routine will be displayed. No updates are saved. Access to “Assign Workout Routines to Customers is a possibility. |
| **Main Success Scenario** | 1. Trainer searches for a Workout Routine.  2. Trainer reviews displayed list of Customers currently capable to being able to do it. This includes Active Customers. |
| **Extensions** | 1a. Workout Routine cannot be found.  1a. Trainer returns to step 1 of “Main Success Scenario.”  1b. Trainer determines Workout Routine does not exist in system and cancels. |
| **Miscellaneous** |  |

Manage exerciess

1. Exercise name

2. Equipment from inventory needed for exercise (optional)

3. Either / Or (not both)

a. Duration (minutes)

b. Sets (number of repetitions)

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| **Use Case Section** | **Comment** |
| **Use Case Name** |  |
| **Actors** |  |
| **Preconditions** |  |
| **Postconditions** |  |
| **Main Success Scenario** |  |
| **Extensions** |  |
| **Miscellaneous** |  |

**Actor Pool:**

Manager (is an Employee)

Trainer (is an Employee)

Customer

Entities:

Gym

User

Equipment

Routine – Name and series of exerciees

Exercise – name, one equipment, and either / or of duration (minutes) or sets (# repetitions)