Globo Gym Management System

Use Case Name: Login
Scope: Globo Gym Management System (GGMS)
Level: sub-function
Primary Actor: User
Stakeholders and Interests:
- User: Wants to be quickly authenticated as a Manager/Trainer in GGMS
- Manager: Wants to be quickly authenticated in GGMS
- Trainer: Wants to be quickly authenticated in GGMS
Preconditions: User is registered as a Manager/Trainer in GGMS.
Success Guarantee (or Postconditions): Manager/Trainer was identified and authenticated in GGMS.

Main Success Scenario (or Basic Flow):
1. Registered user arrives at GGMS with a username and password.
2. User enters username and password
3. User logs in.

Extensions (or Alternative Flows):
*a. At any time, GGMS fails:
    1. User restarts GGMS, logs in, and requests recovery of prior state.
    2. GGMS reconstructs prior state.
      2a. GGMS detects anomalies preventing recovery:
         1. GGMS signals error to User, records error, and enters clean state.
1a. Non-registered User arrives at GGMS with username and password (Manager-specific)
    1a. Invalid username
      1. GGMS signals error and rejects data entered
      2. User responds to error:
        2a. Error message indicates username is already found in GGMS:
          1. User enters username into GGMS.
    1b. Invalid password
      1. GGMS signals error and rejects data entered.
      2. User responds to error
        2a. Error message indicates password is invalid:
          1. User enters password into GGMS.
    2. GGMS displays confirmation of valid username and password combination.
    3. GGMS displays Manager form.
    4. Manager enters ID, name, last name, address, phone number, email, and health insurance provider.
      3a. Invalid information
        1. GGMS signals error and rejects data entered.
        2. Manager responds to error:
          2a. Error message indicates ID is invalid:
            1a. Manager enters ID into GGMS.
          2b. Error message indicates address is invalid:
            1a. Manager enters street1 into GGMS.

     1b. Manager enters street2 into GGMS.

     1c. Manager enters city into GGMS.

     1d. Manager enters state into GGMS.

     1e. Manager enters zip code into GGMS.

    2c. Error message indicates phone number (10 digits) is invalid:

     1. Manager enters phone number into GGMS.

    2d. Error message indicates email is invalid:

     1. Manager enters email into GGMS.

5. User registers in GGMS as a Manager.

6. GGMS presents confirmation that a new User was registered as a Manager not currently in GGMS with provided username and password (ID provides link to Manager instance).

  3a. GGMS does not display confirmation of User creation.

    1. GGMS signals error.

    2. User responds to error:

     1. Error message indicates that confirmation request could not be completed and asks if User would like to retry request.

      1a. User retries confirmation request.

       1. GGMS displays result of request retry.

      1b. User cancels retry of confirmation request.

1b. Non-registered User arrives at GGMS with username, password, and id (Trainer-specific)

 1a. Invalid username

  1. GGMS signals error and rejects data entered

  2. User responds to error:

   2a. Error message indicates username is already found in GGMS:

    1. User enters username into GGMS.

 1b. Invalid password

  1. GGMS signals error and rejects data entered.

  2. User responds to error

   2a. Error message indicates password is invalid:

    1. User enters password into GGMS.

 1c. Invalid ID

  1. GGMS signals error and rejects data entered.

  2. User responds to error

   2a. Error message indicates ID is invalid:

    1. User enters ID into GGMS.

2. User registers in GGMS as a Trainer.

3. GGMS presents confirmation that a new User was registered as a Trainer currently in GGMS with provided username and password (ID provides link to Trainer instance).

  3a. GGMS does not display confirmation of User creation.

    1. GGMS signals error.

    2. User responds to error:

     1. Error message indicates that confirmation request could not be completed and asks if User would like to retry request.

        1a. User retries confirmation request.
            1. GGMS displays result of request retry.
        1b. User cancels retry of confirmation request.
2a. Invalid information
    1. GGMS signals error and rejects data entered.
    2. User responds to error:
       2a. Error message indicates username is not found:
          1. User enters username into GGMS.
3a. Invalid login
    1. GGMS signals error and rejects entrance into GGMS.
    2. User responds to error:
       2a. Error message indicates password is incorrect:
          1. User enters password into GGMS.
       2b. Error message indicates username is incorrect:
          1. User enters username and password into GGMS.
       2c. Error message indicates network connection is not working:
          1. GGMS displays 404 response page until connection is working.
3b. GGMS authenticates User as a Manager.
    1. GGMS presents confirmation that username and password are valid and that
       Manager is a registered User.
3c. GGMS authenticates User as a Trainer.
    1. GGMS presents confirmation that username and password are valid and that
       Trainer is a registered User.
Special Requirements:
Technology and Data Variations List:
Frequency of Occurrence: Could be continuous.
Miscellaneous:

Use Case Name: Logout
Scope: Globo Gym Management System (GGMS)
Level: sub-function
Primary Actor: User
Stakeholders and Interests:
- User: Wants to be logged out of GGMS and unauthenticated as a Manager/Trainer
- Manager: Wants to be quickly logged out of GGMS
- Trainer: Wants to be quickly logged out of GGMS
Preconditions: Manager/Trainer is identified and authenticated in GGMS.
Success Guarantee: Manager/Trainer was logged out and unauthenticated in GGMS.

Main Success Scenario:
1. User logs out of GGMS

Extensions:
*a. At any time, GGMS fails:
    1. User restarts GGMS, logs in, and requests recovery of prior state.

2. GGMS reconstructs prior state.

    2a. GGMS detects anomalies preventing recovery:

        1. GGMS signals error to User, records error, and enters clean state.

1a. GGMS present confirmation that Manager/Trainer was logged out.

1b. GGMS does not present confirmation that Manager/Trainer was logged out.

    1. GGMS signals error.

    2. Manager/Trainer responds to error:

        1. Error message indicates that confirmation request could not be completed and asks if Manager/Trainer would like to retry request.

            1a. Manager/Trainer retries confirmation request.

                1. GGMS displays result of request retry.

            1b. Manager/Trainer cancels retry of confirmation request.

Special Requirements:

Technology and Data Variations List:

Frequency of Occurrence: Could be continuous.

Miscellaneous:

Use Case Name: Hire Trainer

Scope: GGMS

Level: user-goal

Primary Actor: Manager

Stakeholders and Interests:

- Manager: Wants to quickly enter a new Trainer into GGMS

- Trainer: Wants confirmation that their information is correctly entered into GGMS

Preconditions: Manager is identified and authenticated.

Success Guarantee: Trainer was entered into GGMS.

Main Success Scenario:

1. Manager starts a Trainer form with new hire information.
2. Manager enters personal information which includes name, last name, address, phone number, email, ID, and health insurance provider.
3. Manager enters work information which includes work schedule and qualifications.
4. Manager submits new Trainer form with personal and work information filled in.
5. GGMS presents confirmation that a new Trainer was added to it.

Extensions:

*a. At any time, GGMS fails:

    1. Manager restarts GGMS, logs in, and requests recovery of prior state.

    2. GGMS reconstructs prior state.

        2a. GGMS detects anomalies preventing recovery:

            1. GGMS signals error to Manager, records error, and enters clean state.

            2. Manager starts a new Trainer form.

1a. Manager indicates to resume a suspended Trainer form

    1. Manager logs in and performs resume Trainer form operation.

    2. GGMS displays list of trainer forms in a suspended state.

2a. Manager selects Trainer form to resume (sorted "lastName, Name").
    1. GGMS displays Trainer form with fields completed prior to suspending.
2b. Manager removes Trainer form not to be resumed.
1. GGMS displays message that selected new Trainer's form was removed.
4a. Submission fails
  1a. GGMS signals error.
    1. Manager responds to error:
      1a. Error message indicates that there are empty field(s):
        1. Manager enters information into empty fields and submits form.
      1b. Error message indicates network connection is not working:
        1. GGMS displays 404 response page until connection is working.
  1b. Manager cancels form
    1. GGMS displays message asking Manager to confirm if cancelling and losing information in form is desired.
      1a. Manager continues cancel
        1. GGMS displays Manager home page.
      2a. Manager does not cancel
        1. GGMS displays new trainer form with the fields completed prior to attempt at cancellation.
5a. GGMS does not display confirmation of Trainer creation.
  1. GGMS signals error.
  2. Manager responds to error:
    1. Error message indicates that confirmation request could not be completed and asks if Manager would like to retry request.
      1a. Manager retries confirmation request.
        1. GGMS displays result of request retry.
      1b. Manager cancels retry of confirmation request.

Special Requirements:
- Address confirmation response within 30 seconds 90% of the time
Technology and Data Variations List:
Frequency of Occurrence: Could be continuous at special times but will mainly occur once every 2-4 months.
Miscellaneous:

Use Case Name: Register Customer
Scope: GGMS
Level: user-goal
Primary Actor: Manager
Stakeholders and Interests:
- Manager: Wants to quickly enter a new Customer into GGMS
- Customer: Wants confirmation that their information is correctly entered into GGMS
Preconditions: Manager is identified and authenticated.
Success Guarantee: Customer was entered into GGMS.

Main Success Scenario:
1. Manager starts a Customer form with information for new registration.
2. Manager enters personal information which includes name, last name, address, phone, email, ID, and health insurance provider.
3. Manager sets Customer membership status to active.
4. Manager submits new Customer form with information filled in.
5. GGMS presents confirmation that a new Customer was added to it.

Extensions:
*a. At any time, GGMS fails:
    1. Manager restarts GGMS, logs in, and requests recovery of prior state.
    2. GGMS reconstructs prior state.
       2a. GGMS detects anomalies preventing recovery:
          1. GGMS signals error to Manager, records error, and enters clean state.
          2. Manager starts a new Customer form.
1a. Manager indicates to resume a suspended Customer form
    1. Manager logs in and performs resume Customer form operation.
    2. GGMS displays list of Customer forms in a suspended state.
       2a. Manager selects Customer form to resume (sorted "lastName, Name").
          1. GGMS displays Customer form with fields completed prior to suspending.
       2b. Manager removes Customer form not to be resumed.
          1. GGMS displays message that selected new Customer's form was removed.
2a. Invalid information
    1. GGMS signals error and rejects data entered.
    2. Manager responds to error:
       2a. Error message indicates address is invalid:
          1a. Manager enters street 1 into GGMS.
          1b. Manager enters street 2 into GGMS.
          1c. Manager enters city into GGMS.
          1d. Manager enters state into GGMS.
          1e. Manager enters zip code into GGMS.
       2b. Error message indicates phone number (10 digits) is invalid:
          1. Manager enters phone number into GGMS.
       2c. Error message indicates email is invalid:
          1. Manager enters email into GGMS.
       2d. Error message indicates ID is invalid:
          1. Manager enters ID into GGMS.
3a. Manager sets Customer membership status to inactive
    1. GGMS displays message asking Manager to confirm if inactive membership status is desired
       1a. Manager confirms inactive status is correct
          1. GGMS displays "Inactive" in membership status field.
       1b. Manager does not confirm
          1. GGMS displays "Active" in membership status field.
4a. Submission fails

1a. GGMS signals error.
                1. Manager responds to error:
                        1a. Error message indicates that there are empty field(s):
                                1. Manager enters information into empty fields and submits form.
                        1b. Error message indicates network connection is not working:
                                1. GGMS displays 404 response page until connection is working.
        1b. Manager cancels form
                1. GGMS displays message asking Manager to confirm if cancelling and losing information in form is desired.
                        1a. Manager continues cancel
                                1. GGMS displays Manager home page.
                        2a. Manager does not cancel
                                1. GGMS displays new Customer form with the fields completed prior to attempt at cancellation.
5a. GGMS does not display confirmation of Customer creation.
        1. GGMS signals error.
        2. Manager responds to error:
                1. Error message indicates that confirmation request could not be completed and asks if manager would like to retry request.
                        1a. Manager retries confirmation request.
                                1. GGMS displays result of request retry.
                        1b. Manager cancels retry of confirmation request.

Special Requirements:
- Address confirmation response within 30 seconds 90% of the time
Technology and Data Variations List:
Frequency of Occurrence: Could be continuous at special times but will mainly occur once every 2-4 months.
Miscellaneous:

Use Case Name: Inventory Equipment
Scope: GGMS
Level: user-goal
Primary Actor: Manager
Stakeholders and Interests:
- Manager: Wants to quickly enter Equipment into GGMS Inventory
- Trainer: Wants all Equipment to be available in Inventory to plan workouts
Preconditions: Manager is identified and authenticated.
Success Guarantee: Equipment was added to GGMS Inventory.

Main Success Scenario:
1. Manager starts an Equipment form with information to add equipment to GGMS Inventory.
2. Manager enters information which includes name, picture, and quantity.
3. Manager submits new Equipment form with information filled in.
4. GGMS presents confirmation that new Equipment was added to its Inventory.

Extensions:
*a. At any time, GGMS fails:
    1. Manager restarts GGMS, logs in, and requests recovery of prior state.
    2. GGMS reconstructs prior state.
       2a. GGMS detects anomalies preventing recovery:
          1. GGMS signals error to Manager, records error, and enters clean state.
          2. Manager starts a new Equipment form.
1a. Manager indicates to resume a suspended Equipment form
    1. Manager logs in and performs resume Equipment form operation.
    2. GGMS displays list of Equipment forms in a suspended state.
       2a. Manager selects Equipment form to resume (sorted by "Name").
          1. GGMS displays form with fields completed prior to suspending.
       2b. Manager removes Equipment form not to be resumed.
          1. GGMS displays message that selected new Equipment's form
            was removed.
2a. Invalid information
    1. GGMS signals error and rejects data entered.
    2. Manager responds to error:
       2a. Error message indicates picture is invalid:
          1. Manager enters picture into GGMS.
3a. Submission fails
    1a. GGMS signals error.
       1. Manager responds to error:
          1a. Error message indicates that there are empty field(s):
            1. Manager enters information into empty fields and submits form.
          1b. Error message indicates network connection is not working:
            1. GGMS displays 404 response page until connection is working.
    1b. Manager cancels form
       1. GGMS displays message asking Manager to confirm if cancelling and losing
          information in form is desired.
          1a. Manager continues cancel
            1. GGMS displays Manager home page.
         2a. Manager does not cancel
            1. GGMS displays new Equipment form with the fields completed
              prior to attempt at cancellation.
4a. GGMS does not display confirmation of Equipment creation.
    1. GGMS signals error.
    2. Manager responds to error:
       1. Error message indicates that confirmation request could not be completed
          and asks if manager would like to retry request.
          1a. Manager retries confirmation request.
            1. GGMS displays result of request retry.
          1b. Manager cancels retry of confirmation request.

Special Requirements:
- Picture type confirmation response within 30 seconds 90% of the time

Technology and Data Variations List:
Frequency of Occurrence: Every 6 months – 1 year.
Miscellaneous:

_____

Use Case Name: Modify Trainer
Scope: GGMS
Level: user-goal
Primary Actor: Manager
Stakeholders and Interests:
- Manager: Wants to quickly modify a Trainer in GGMS
- Trainer: Wants their information saved in GGMS to be current and correct
Preconditions: Manager is identified and authenticated.
Success Guarantee: Trainer was modified in GGMS.

Main Success Scenario:
1. include(Search Trainer)
2. Manager modifies personal or work information which can include name, last name, address, phone, email, ID, and health insurance provider or work hours and qualifications.
3. Manager submits Trainer form with modified information.
4. GGMS presents confirmation that a Trainer was successfully modified.

Extensions:
*a. At any time, GGMS fails:
　　1. Manager restarts GGMS, logs in, and requests recovery of prior state.
　　2. GGMS reconstructs prior state.
　　　2a. GGMS detects anomalies preventing recovery:
　　　　　1. GGMS signals error to Manager, records error, and enters clean state.
1a. Manager indicates to return to home.
　　1. GGMS displays GGMS home.
2a. Invalid information
　　1. GGMS signals error and rejects data entered.
　　2. Manager responds to error:
　　　2a. Error message indicates address is invalid:
　　　　　1a. Manager enters street 1 into GGMS.
　　　　　1b. Manager enters street 2 into GGMS.
　　　　　1c. Manager enters city into GGMS.
　　　　　1d. Manager enters state into GGMS.
　　　　　1e. Manager enters zip code into GGMS.
　　　2b. Error message indicates phone number (10 digits) is invalid:
　　　　　1. Manager enters phone number into GGMS.
　　　2c. Error message indicates email is invalid:
　　　　　1. Manager enters email into GGMS
　　　2d. Error message indicates ID is invalid:
　　　　　1. Manager enters ID into GGMS.
　　　2e. Error message indicates work schedule is invalid:

            1a. Manager enters day into GGMS.

            1b. Manager enters start time into GGMS.

            1c. Manager enters end time into GGMS.

3a. Submission fails

    1a. GGMS signals error.

        1. Manager responds to error:

            1a. Error message indicates that there are empty field(s):

                1. Manager enters information into empty fields and submits form.

            1b. Error message indicates network connection is not working:

                1. GGMS displays 404 response page until connection is working.

    1b. Manager cancels form

        1. GGMS displays message asking Manager to confirm if cancelling and losing information in form is desired.

            1a. Manager continues cancel

                1. GGMS displays Manager home page.

          2a. Manager does not cancel

              1. GGMS displays Trainer form with the fields completed prior to attempt at cancellation.

4a. GGMS does not display confirmation of Trainer modification.

    1. GGMS signals error.

    2. Manager responds to error:

        1. Error message indicates that confirmation request could not be completed and asks if manager would like to retry request.

            1a. Manager retries confirmation request.

                1. GGMS displays result of request retry.

            1b. Manager cancels retry of confirmation request.

Special Requirements:
- Address confirmation response within 30 seconds 90% of the time

Technology and Data Variations List:

Frequency of Occurrence: Could be continuous during the holidays (i.e., due to modification of work hours) but should not occur more than once a year.

Miscellaneous:

_____

Use Case Name: Modify Customer

Scope: GGMS

Level: user-goal

Primary Actor: Manager

Stakeholders and Interests:

- Manager: Wants to quickly modify a Customer in GGMS

- Customer: Wants their information saved in GGMS to be current and correct

Preconditions: Manager is identified and authenticated.

Success Guarantee: Customer was modified in GGMS.

Main Success Scenario:

1. include(Search Customer)

2. Manager modifies information which can include name, last name, address, phone, email, ID, and health insurance provider or membership status.
3. Manager submits Customer form with modified information.
4. GGMS presents confirmation that a Customer was successfully modified.

Extensions:
*a. At any time, GGMS fails:
    1. Manager restarts GGMS, logs in, and requests recovery of prior state.
    2. GGMS reconstructs prior state.
        2a. GGMS detects anomalies preventing recovery:
            1. GGMS signals error to Manager, records error, and enters clean state.
1a. Manager indicates to resume a suspended Customer form
    1. Manager logs in and performs resume Customer form operation.
    2. GGMS displays list of Customer forms in a suspended state.
        2a. Manager selects Customer form to resume (sorted by "lastName, Name").
            1. GGMS displays Customer form with fields completed prior to suspending.
        2b. Manager removes Customer form not to be resumed.
            1. GGMS displays message that selected new Customer's form was removed.
1b. Manager indicates to return to home.
    1. GGMS displays GGMS home.
2a. Invalid information
    1. GGMS signals error and rejects data entered.
    2. Manager responds to error:
        2a. Error message indicates address is invalid:
            1a. Manager enters street 1 into GGMS.
            1b. Manager enters street 2 into GGMS.
            1c. Manager enters city into GGMS.
            1d. Manager enters state into GGMS.
            1e. Manager enters zip code into GGMS.
        2b. Error message indicates phone number (10 digits) is invalid:
            1. Manager enters phone number into GGMS.
        2c. Error message indicates email is invalid:
            1. Manager enters email into GGMS
        2d. Error message indicates ID is invalid:
            1. Manager enters ID into GGMS.
3a. Submission fails
    1a. GGMS signals error.
        1. Manager responds to error:
            1a. Error message indicates that there are empty field(s):
                1. Manager enters information into empty fields and submits form.
            1b. Error message indicates network connection is not working:
                1. GGMS displays 404 response page until connection is working.
    1b. Manager cancels form
        1. GGMS displays message asking Manager to confirm if cancelling and losing information in form is desired.

          1a. Manager continues cancel
               1. GGMS displays Manager home page.
          2a. Manager does not cancel
               1. GGMS displays Customer form with the fields completed prior to
                   attempt at cancellation.
4a. GGMS does not display confirmation of Customer modification.
    1. GGMS signals error.
    2. Manager responds to error:
        1. Error message indicates that confirmation request could not be completed
          and asks if manager would like to retry request.
          1a. Manager retries confirmation request.
               1. GGMS displays result of request retry.
          1b. Manager cancels retry of confirmation request.

Special Requirements:
- Address confirmation response within 30 seconds 90% of the time
Technology and Data Variations List:
Frequency of Occurrence: Should not occur more than once a year if at all.
Miscellaneous:

_____

Use Case Name: Modify Equipment
Scope: GGMS
Level: user-goal
Primary Actor: Manager
Stakeholders and Interests:
- Manager: Wants to quickly modify Equipment in GGMS Inventory
- Trainer: Wants Equipment information to be current and correct in GGMS Inventory to
  plan workouts
Preconditions: Manager is identified and authenticated.
Success Guarantee: Equipment was modified in GGMS Inventory.

Main Success Scenario:
1. include(Search Equipment)
2. Manager modifies information which can include name, picture, and quantity.
3. Manager submits Equipment form with modified information.
4. GGMS presents confirmation that Equipment was successfully modified.

Extensions:
*a. At any time, GGMS fails:
    1. Manager restarts GGMS, logs in, and requests recovery of prior state.
    2. GGMS reconstructs prior state.
      2a. GGMS detects anomalies preventing recovery:
          1. GGMS signals error to Manager, records error, and enters clean state.
1a. Manager indicates to resume a suspended Equipment form
    1. Manager logs in and performs resume Equipment form operation.
    2. GGMS displays list of Equipment forms in a suspended state.
      2a. Manager selects Equipment form to resume (sorted by "Name").

        1. GGMS displays Equipment form with fields completed prior to suspending.
     2b. Manager removes Equipment form not to be resumed.
       1. GGMS displays message that selected Equipment's form was removed.
1b. Manager indicates to return to home.
   1. GGMS displays GGMS home.
2a. Invalid information
   1. GGMS signals error and rejects data entered.
   2. Manager responds to error:
      2a. Error message indicates picture is invalid:
         1. Manager enters picture into GGMS.
3a. Submission fails
   1a. GGMS signals error.
      1. Manager responds to error:
         1a. Error message indicates that there are empty field(s):
            1. Manager enters information into empty fields and submits form.
         1b. Error message indicates network connection is not working:
            1. GGMS displays 404 response page until connection is working.
   1b. Manager cancels form
      1. GGMS displays message asking Manager to confirm if cancelling and losing information in form is desired.
         1a. Manager continues cancel
            1. GGMS displays Manager home page.
        2a. Manager does not cancel
            1. GGMS displays Equipment form with the fields completed prior to attempt at cancellation.
4a. GGMS does not display confirmation of Equipment modification.
   1. GGMS signals error.
   2. Manager responds to error:
      1. Error message indicates that confirmation request could not be completed and asks if manager would like to retry request.
         1a. Manager retries confirmation request.
            1. GGMS displays result of request retry.
         1b. Manager cancels retry of confirmation request.

Special Requirements:
- Picture type confirmation response within 30 seconds 90% of the time
Technology and Data Variations List:
Frequency of Occurrence: Every 6 months – 1 year.
Miscellaneous:

_____

Use Case Name: Create Exercise
Scope: GGMS
Level: user-goal
Primary Actor: Trainer

Stakeholders and Interests:
- Trainer: Wants to quickly enter an Exercise into GGMS
- Customer: Wants all Exercises to be available in GGMS
Preconditions: Trainer is identified and authenticated.
Success Guarantee: Exercise was entered in GGMS.

Main Success Scenario:
1. Trainer starts an Exercise form.
2. Trainer enters information which includes a name and can include Equipment, duration (in time) or number of sets and repetitions per set
3. Trainer submits new Exercise form with information filled in.
4. GGMS presents confirmation that new Exercise was added to it.

Extensions:
*a. At any time, GGMS fails:
    1. Trainer restarts GGMS, logs in, and requests recovery of prior state.
    2. GGMS reconstructs prior state.
      2a. GGMS detects anomalies preventing recovery:
        1. GGMS signals error to Trainer, records error, and enters clean state.
        2. Trainer starts a new Routine form.
1a. Trainer indicates to resume a suspended Exercise form
    1. Trainer logs in and performs resume Exercise form operation.
    2. GGMS displays list of Exercise forms in a suspended state.
      2a. Trainer selects Exercise form to resume (sorted by "Name").
        1. GGMS displays Exercise form with fields completed prior to suspending.
      2b. Trainer removes Exercise form not to be resumed.
        1. GGMS displays message that selected Exercise's form was removed.
2a. Invalid information
    1. GGMS signals error and rejects data entered.
    2. Trainer responds to error:
      2a. Error message indicates name is invalid:
        1. Trainer enters name (unique) into GGMS.
      2b. Error message indicates Equipment is invalid:
        1. Trainer enters Equipment into GGMS.
      2c. Error message indicates duration is invalid:
        1. Trainer enters duration into GGMS.
      2d. Error message indicates number of sets or repetitions per set is invalid:
        1. Trainer enters value for number of sets or repetitions per set into GGMS.
3a. Submission fails
    1a. GGMS signals error.
      1. Trainer responds to error:
        1a. Error message indicates that there are empty field(s):
          1. Trainer enters information into empty fields and submits form.
        1b. Error message indicates network connection is not working:
          1. GGMS displays 404 response page until connection is working.
    1b. Trainer cancels form

1. GGMS displays message asking Trainer to confirm if cancelling and losing information in form is desired.
    1a. Trainer continues cancel
        1. GGMS displays Trainer home page.
    1b. Trainer does not cancel
        1. GGMS displays Exercise form with fields completed prior to attempt at cancellation.
4a. GGMS does not display confirmation of Exercise creation.
    1. GGMS signals error.
    2. Trainer responds to error:
        1. Error message indicates that confirmation request could not be completed and asks if manager would like to retry request.
            1a. Trainer retries confirmation request.
                1. GGMS displays result of request retry.
            1b. Trainer cancels retry of confirmation request.

Special Requirements:
- Name uniqueness confirmation response within 30 seconds 90% of the time
Technology and Data Variations List:
Frequency of Occurrence: Could be continuous at special times (start of new year, wedding season, etc.) but will mainly occur every 1-2 weeks.
Miscellaneous:

Use Case Name: Create Routine
Scope: GGMS
Level: user-goal
Primary Actor: Trainer
Stakeholders and Interests:
- Trainer: Wants to quickly enter a Routine into GGMS
- Customer: Wants all Routines to be available in GGMS
Preconditions: Trainer is identified and authenticated.
Success Guarantee: Routine was entered in GGMS.

Main Success Scenario:
1. Trainer starts a Routine form.
2. Trainer enters information which includes a name and a list of Exercises
3. Trainer submits new Routine form with information filled in.
4. GGMS presents confirmation that new Routine was added to it.

Extensions:
*a. At any time, GGMS fails:
    1. Trainer restarts GGMS, logs in, and requests recovery of prior state.
    2. GGMS reconstructs prior state.
        2a. GGMS detects anomalies preventing recovery:
            1. GGMS signals error to Trainer, records error, and enters clean state.
            2. Trainer starts a new Routine form.

1a. Trainer indicates to resume a suspended Routine form
    1. Trainer logs in and performs resume Routine form operation.
    2. GGMS displays list of Routine forms in a suspended state.
        2a. Trainer selects Routine form to resume (sorted by "Name").
            1. GGMS displays Routine form with fields completed prior to suspending.
        2b. Trainer removes Routine form not to be resumed.
            1. GGMS displays message that selected new Routine's form was removed.
2a. Invalid information
    1. GGMS signals error and rejects data entered.
    2. Trainer responds to error:
        2a. Error message indicates a name is invalid:
            1. Trainer enters name (unique) into GGMS.
        2b. Error message indicates an Exercise is invalid:
            1. Trainer enters Exercise into GGMS.
3a. Submission fails
    1a. GGMS signals error.
        1. Trainer responds to error:
            1a. Error message indicates that there are empty field(s):
                1. Trainer enters information into empty fields and submits form.
            1b. Error message indicates network connection is not working:
                1. GGMS displays 404 response page until connection is working.
    1b. Trainer cancels form
        1. GGMS displays message asking Trainer to confirm if cancelling and losing information in form is desired.
            1a. Trainer continues cancel
                1. GGMS displays Trainer home page.
            1b. Trainer does not cancel
                1. GGMS displays Routine form with fields completed prior to attempt at cancellation.
4a. GGMS does not display confirmation of Routine modification.
    1. GGMS signals error.
    2. Trainer responds to error:
        1. Error message indicates that confirmation request could not be completed and asks if manager would like to retry request.
            1a. Trainer retries confirmation request.
                1. GGMS displays result of request retry.
            1b. Trainer cancels retry of confirmation request.

Special Requirements:
- Name uniqueness confirmation response within 30 seconds 90% of the time
Technology and Data Variations List:
Frequency of Occurrence: Could be continuous at special times (start of new year, wedding season, etc.) but will mainly occur every 1-2 weeks.
Miscellaneous:

Use Case Name: Modify Exercise
Scope: GGMS
Level: user-goal
Primary Actor: Trainer
Stakeholders and Interests:
- Trainer: Wants to quickly modify an Exercise in GGMS
- Customer: Wants all Exercises in GGMS to be current and correct
Preconditions: Trainer is identified and authenticated.
Success Guarantee: Exercise was modified in GGMS.

Main Success Scenario:
1. include(Search Exercise)
2. Trainer modifies information which includes a name and can include Equipment, duration (in time) or number of sets and repetitions per set.
3. Trainer submits Exercise form with modified information.
4. GGMS presents confirmation that an Exercise was successfully modified.

Extensions:
*a. At any time, GGMS fails:
   1. Trainer restarts GGMS, logs in, and requests recovery of prior state.
   2. GGMS reconstructs prior state.
     2a. GGMS detects anomalies preventing recovery:
       1. GGMS signals error to Trainer, records error, and enters clean state.
1a. Trainer indicates to resume a suspended Exercise form
   1. Trainer logs in and performs resume Routine form operation.
   2. GGMS displays list of Exercise forms in a suspended state.
     2a. Trainer selects Exercise form to resume (sorted by "Name").
       1. GGMS displays Exercise form with fields completed prior to suspending.
     2b. Trainer removes Exercise form not to be resumed.
       1. GGMS displays message that selected Exercise's form was removed.
1b. Trainer indicates to return to home.
   1. GGMS displays GGMS home.
2a. Invalid information
   1. GGMS signals error and rejects data entered.
   2. Trainer responds to error:
     2a. Error message indicates name is invalid:
       1. Trainer enters name (unique) into GGMS.
     2b. Error message indicates Equipment is invalid:
       1. Trainer enters Equipment into GGMS.
     2c. Error message indicates duration is invalid:
       1. Trainer enters duration into GGMS.
     2d. Error message indicates number of sets or repetitions per set is invalid:
       1. Trainer enters value for number of sets or repetitions per set into GGMS.
3a. Submission fails
   1a. GGMS signals error.
     1. Trainer responds to error:

1a. Error message indicates that there are empty field(s):
    1. Trainer enters information into empty fields and submits form.
1b. Error message indicates network connection is not working:
    1. GGMS displays 404 response page until connection is working.
1b. Trainer cancels form
    1. GGMS displays message asking Trainer to confirm if cancelling and losing information in form is desired.
        1a. Trainer continues cancel
            1. GGMS displays Trainer home page.
        1b. Trainer does not cancel
            1. GGMS displays Exercise form with fields completed prior to attempt at cancellation.
4a. GGMS does not display confirmation of Exercise modification.
    1. GGMS signals error.
    2. Trainer responds to error:
        1. Error message indicates that confirmation request could not be completed and asks if manager would like to retry request.
            1a. Trainer retries confirmation request.
                1. GGMS displays result of request retry.
            1b. Trainer cancels retry of confirmation request.

Special Requirements:
- Name uniqueness confirmation response within 30 seconds 90% of the time
Technology and Data Variations List:
Frequency of Occurrence: Could be continuous at special times (start of new year, wedding season, etc.) but will mainly occur every 1-2 weeks.
Miscellaneous:

Use Case Name: Modify Routine
Scope: GGMS
Level: user-goal
Primary Actor: Trainer
Stakeholders and Interests:
- Trainer: Wants to quickly modify a Routine in GGMS
- Customer: Wants all Routines in GGMS to be current and correct
Preconditions: Trainer is identified and authenticated.
Success Guarantee: Routine was modified in GGMS.

Main Success Scenario:
1. include(Search Routine)
2. Trainer modifies information which includes a name and list of Exercises.
3. Trainer submits Routine form with modified information.
4. GGMS presents confirmation that a Routine was successfully modified.
Extensions:
*a. At any time, GGMS fails:
    1. Trainer restarts GGMS, logs in, and requests recovery of prior state.

2. GGMS reconstructs prior state.
    2a. GGMS detects anomalies preventing recovery:
        1. GGMS signals error to Trainer, records error, and enters clean state.
1a. Trainer indicates to resume a suspended Routine form
    1. Trainer logs in and performs resume Routine form operation.
    2. GGMS displays list of Routine forms in a suspended state.
        2a. Trainer selects Routine form to resume (sorted by "Name").
            1. GGMS displays Routine form with fields completed prior to suspending.
        2b. Trainer removes Routine form not to be resumed.
            1. GGMS displays message that selected new Routine's form was removed.
1b. Trainer indicates to return to home.
    1. GGMS displays GGMS home.
2a. Invalid information
    1. GGMS signals error and rejects data entered.
    2. Trainer responds to error:
        2a. Error message indicates name is invalid:
            1. Trainer enters name (unique) into GGMS.
        2b. Error message indicates an Exercise is invalid:
            1. Trainer enters Exercise into GGMS.
3a. Submission fails
    1a. GGMS signals error.
        1. Trainer responds to error:
            1a. Error message indicates that there are empty field(s):
                1. Trainer enters information into empty fields and submits form.
            1b. Error message indicates network connection is not working:
                1. GGMS displays 404 response page until connection is working.
    1b. Trainer cancels form
        1. GGMS displays message asking Trainer to confirm if cancelling and losing information in form is desired.
            1a. Trainer continues cancel
                1. GGMS displays Trainer home page.
            1b. Trainer does not cancel
                1. GGMS displays Routine form with fields completed prior to attempt at cancellation.
4a. GGMS does not display confirmation of Routine modification.
    1. GGMS signals error.
    2. Trainer responds to error:
        1. Error message indicates that confirmation request could not be completed and asks if manager would like to retry request.
            1a. Trainer retries confirmation request.
                1. GGMS displays result of request retry.
            1b. Trainer cancels retry of confirmation request.

Special Requirements:
- Name uniqueness confirmation response within 30 seconds 90% of the time
Technology and Data Variations List:

Frequency of Occurrence: Could be continuous at special times (start of new year, wedding season, etc.) but will mainly occur every 1-2 weeks.
Miscellaneous:

_____

Use Case Name: Assign Routine
Scope: GGMS
Level: user-goal
Primary Actor: Trainer
Stakeholders and Interests:
- Trainer: Wants to quickly assign one or more Routine(s) to a Customer in GGMS
- Customer: Wants all assigned Routines in GGMS to be current and correct
Preconditions: Trainer is identified and authenticated.
Success Guarantee: Routine(s) was/were assigned to a Customer in GGMS.

Main Success Scenario:
1. include(Search Customer)
2. Trainer enters Routine information ("name") into Customer's list of Routines.
3. Trainer submits Customer form.
4. GGMS presents confirmation that Routine(s) is/are assigned to a Customer.

Extensions:
*a. At any time, GGMS fails:
    1. Trainer restarts GGMS, logs in, and requests recovery of prior state.
    2. GGMS reconstructs prior state.
      2a. GGMS detects anomalies preventing recovery:
         1. GGMS signals error to Trainer, records error, and enters clean state.
1a. Trainer indicates to return to home.
    1. GGMS displays GGMS home.
2a. Invalid information
    1. GGMS signals error and rejects data entered.
    2. Trainer responds to error:
      2a. Error message indicates a Routine is invalid:
         1. Trainer enters Routine name (unique) into GGMS.
3a. Submission fails
    1a. GGMS signals error.
      1. Trainer responds to error:
        1a. Error message indicates that there are empty fields:
           1. Trainer enters information into empty fields and submits form.
        1b. Error message indicates network connection is not working:
           1. GGMS displays 404 response page until connection is working.
    1b. Trainer exits Customer form
      1. GGMS displays message asking Trainer to confirm if cancelling and losing
        information in form is desired.
        1a. Trainer continues cancel
           1. GGMS displays Trainer home page.
        1b. Trainer does not cancel

          1. GGMS displays Customer form with the fields completed prior
             to attempt at cancellation.
4a. GGMS does not display confirmation of Routine assignment.
    1. GGMS signals error.
    2. Trainer responds to error:
        1. Error message indicates that confirmation request could not be completed
          and asks if manager would like to retry request.
          1a. Trainer retries confirmation request.
            1. GGMS displays result of request retry.
          1b. Trainer cancels retry of confirmation request.
Special Requirements:
Technology and Data Variations List:
Frequency of Occurrence: Could be continuous at special times (start of new year, wedding season, etc.) but will mainly occur every 1-2 weeks.
Miscellaneous:

Use Case Name: Search
Scope: GGMS
Level: user-goal
Primary Actor: User
Stakeholders and Interests:
- Manager: Wants to quickly search GGMS for a Customer, Exercise, or Routine
- Trainer: Wants to quickly search GGMS for a Trainer, Customer or Equipment
- Customer: Wants their information in GGMS to be current and correct
Preconditions: Manager/Trainer is identified and authenticated.
Success Guarantee: Search was performed in GGMS against a list. A result was returned.

Main Success Scenario:
1. User starts a new Search form.
2. User enters a name into the Search Term field.
3. User submits form with the Search Term field completed.
4. GGMS presents Search result by displaying a name with an option to View or Edit.

Extensions:
*a. At any time, GGMS fails:
    1. Trainer restarts GGMS, logs in, and requests recovery of prior state.
    2. GGMS reconstructs prior state.
      2a. GGMS detects anomalies preventing recovery:
        1. GGMS signals error to Trainer, records error, and enters clean state.
1a. User indicates to resume a suspended Search form
    1. User logs in and performs resume Search form operation.
    2. GGMS displays list of Search forms in a suspended state.
      2a. User selects Search form to resume (sorted by "Search Term").
        1. GGMS displays Search form with fields completed prior to suspending.
      2b. User removes Search form not to be resumed.

1. GGMS displays message that selected new Search form was removed.

2a. User enters Customer name

2b. User enters Trainer name

2c. User enters Equipment name

2d. User enters Exercise name

2e. User enters Routine name

2f. Invalid information
    1. GGMS signals error and rejects data entered.
    2. User responds to error:
        2a. Error message indicates a name is invalid:
            1. User enters name (unique) into GGMS.

3a. Submission fails
    1a. GGMS signals error.
        1. User responds to the error:
            1a. The error message indicates that there is no Search Term filled in:
                1. User enters name in Search Term field and submits Search form.
            1b. The error message indicates network connection is not working:
                1. GGMS displays 404 response page until connection is working.
    1b. User cancels form
        1. GGMS displays message asking User to confirm if cancelling and losing information in form is desired.
            1a. User continues cancel
                1. GGMS displays Trainer home page.
            1b. User does not cancel
                1. GGMS displays Search form with the field completed prior to attempt at cancellation.

4a. GGMS displays result as Customer name

4b. GGMS displays result as Trainer name

4c. GGMS displays result as Equipment name

4d. GGMS displays result as Exercise name

4e. GGMS displays result as Routine name

4f. GGMS does not display Search results.
    1a. GGMS signals error.
        1. User responds to the error:
        2. Error message indicates that confirmation request could not be completed and asks if User would like to retry request.
            1a. User retries confirmation request.
                1. GGMS displays result of request retry.
            1b. User cancels retry of confirmation request.
    1b. GGMS signals no results.
        1. Error message indicates that the search returned no results and asks if User would like to retry request.
            1a. User starts a new Search form.
            1b. User cancels retry of confirmation request.

Special Requirements: Search confirmation response received within 30 seconds 90% of the time

Technology and Data Variations List:

Frequency of Occurrence: Could be continuous at special times (start of new year, wedding season, etc.) but will mainly occur every 1-2 weeks.

Miscellaneous:

_____