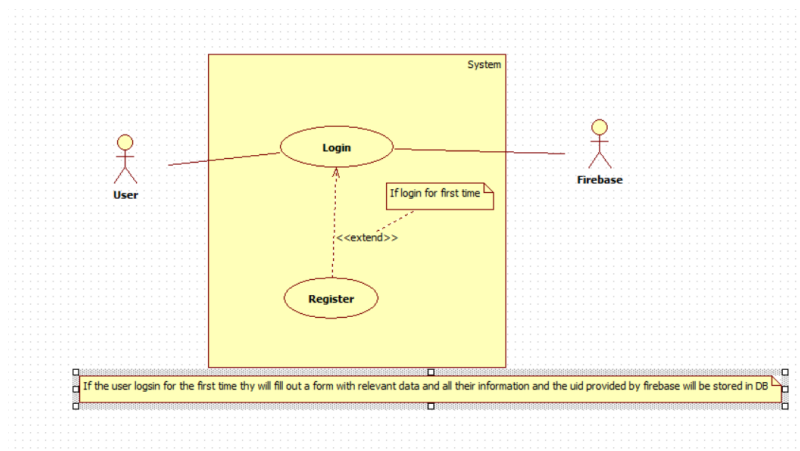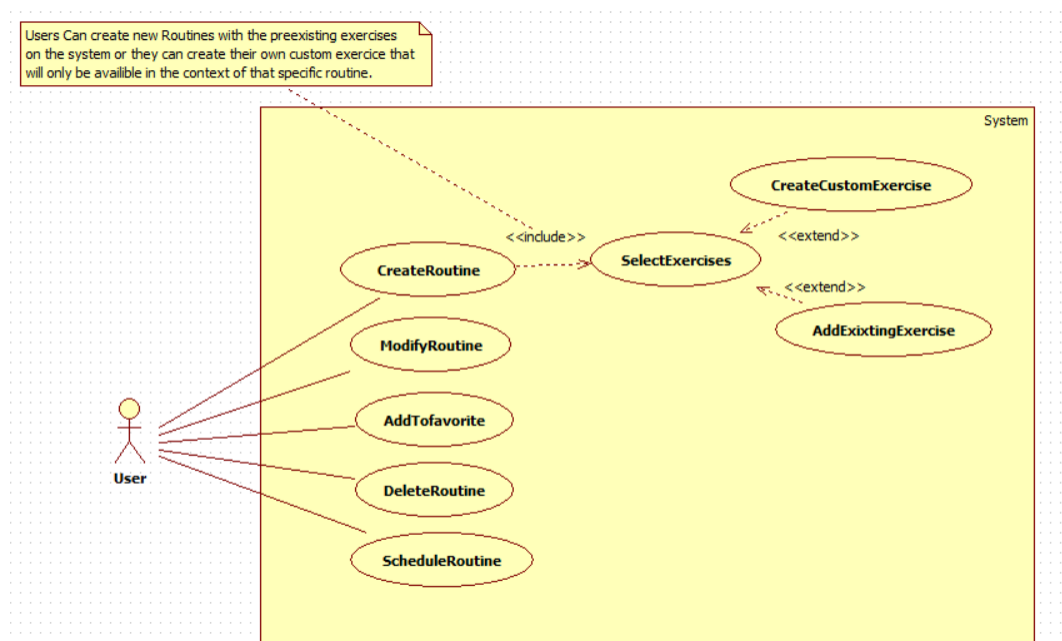# Social Fitness
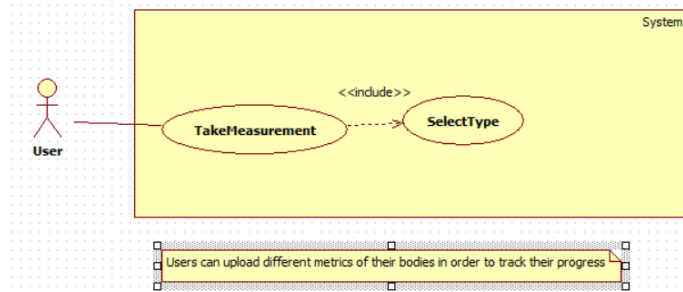
First iteration:

Features:

- Auth Feature:
    -Users must be able to login with their google account.
    -If it's their first time logging in they must register.

- Routine Management Feature:
    -Users must be able to create new routines based on preexisting exercises.
    -Users can modify the routines that they have created.

- Measurements Management Feature:
  - -Users can add body metrics.

Components:

- Api Gateway
  - -Recieve all requests and direct them to the corresponding microservice
  - -Authenticate Requests via Firebase
  - -Suport http

- DiscoveryService
  - -Locate all microservices
  - -Loadbalance

- User Microservice
  - -Create users
  - -Delete users and create events form data deletion

- Routine Microservice
  - -Create routine
  - -Delete routine
  - -Modify existing routines
  - -Listen for user deletion events

- Measurements Microservice
  - -Create measurements
  - -Delete Measurements
  - -Listen for user deletion events

- Exercise Microservice
  - -Internal microservice
  - -Only used to serve exercises for the routine service from db

- Rabbitmq
    - -Used to send user deletion events and possible fail events for saga pattern