# Use Case Documentation

## Check My Calories

A comprehensive description of the processes and activities associated with this program

### System Level Use Case Diagram

Click Here

### Subsystem Descriptions

Below is descriptions for the two active subsystems within this program

#### New account

This will contain the use cases related to creating a new user into the system

- Create Account
- Create New User

#### Database controller

This system is responsible for all data manipulation of data to insert into, query, update or delete within the database.

- Query Data for User
- Collect All Food Data
- Submit information to Database

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## Use Cases

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### User Login

The process a returning user uses to login to their account

#### Actors

- Returning User

#### "Used" Use Cases

- Query Database for User

#### Flow of Events

1. There are two instances this will fire
    a. This begins when the user clicks the login link
    b. This will begin when a new account is completed
2. The user is redirected to a login page
3. User will enter a user name and password associated with their account
4. The system will then make a call to "Query Database for User"
5. If the information is found then the System will direct them to the submit food page

## Create Account

The process of creating a new account for a new user with unique information

### Actors

- New User

### "Used" Use Cases

- Validate User Information

### Flow of Events

1. This begins when the user clicks "New Account" button
2. The user will be prompted to enter a unique email, username and password
3. That information will be submitted once the user clicks the submit button
4. Once submitted the ""Validate user information" use case will be called
5. If validation returns true then the use case will redirect to the login page

## Display User Food History

This process will query the database and return all information related to this user.

### Actors

- None directly

### "Used" Use Cases

- Collect all Food Data

### Flow of Events

1. There are two events related to this use case
    a. This process fires after a User Login process completes
    b. This process fires when a Submit New Food process completes
2. this process then calls the "Collect all Food Data"
3. it will then display the food in a graph, list or table for the user to view

## Submit New Food

This is the process of submitting new food to the database, it will collect the food and call the "Submit information to database" Process.

### Actors

- Returning User

### "Used" Use Cases

- Submit Information To database

### Flow of Events

1. This will fire when the returning user clicks on the submit button
2. The entries will be collected
3. The entries will be validated for accuracy

4. Once the information is collected it will be created into a serializable object
5. The Object converted to a JSON string
6. Submit information To database process will be called
7. The entry fields will be cleared of data

## Submit Information to Database

The action of submitting new food information to the database

### Actors

- << System >> Database

### "Used" Use Cases

- none

### Flow of Events

1. this process begins with the submission of a JSON object through an input stream
2. once the object is collected it will be validated for correctness
3. then it will be sent to the database VIA a hibernate object

## Query Database for User

The purpose of this process is to submit a query to the database to validate that a user exists and return the user values. Or if a user does not exist to return false.

### Actors

- << System >> Database

### "Used" Use Cases

- none

### Flow of Events

1. This process executes based on two separate instances
    a. The Returning User submits a login request
    b. A New User submits information to create an account
2. Once fired the process will collect the submitted information
3. After collection it will form a hibernate query
4. It will submit the query to the Database Actor and listen for a response
5. It will return the response to the calling process

## Collect All Food Data

This process will query the database for all food information based on the users account ID and return the info in a list, set or Hashmap to be read through and displayed.

### Actors

- << System >> Database

## “Used” Use Cases

- User Login
- Display User Food History

## Flow of Events

1. This process will execute based two separate events
    a. The user logs into their account
    b. The user submits an new food entry
2. The process will create a hibernate query based on User login information
3. The process will then submit a query to the database
4. The returned information will be sent to the Display user food Use case to be shown to the user

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# Use Case Diagram

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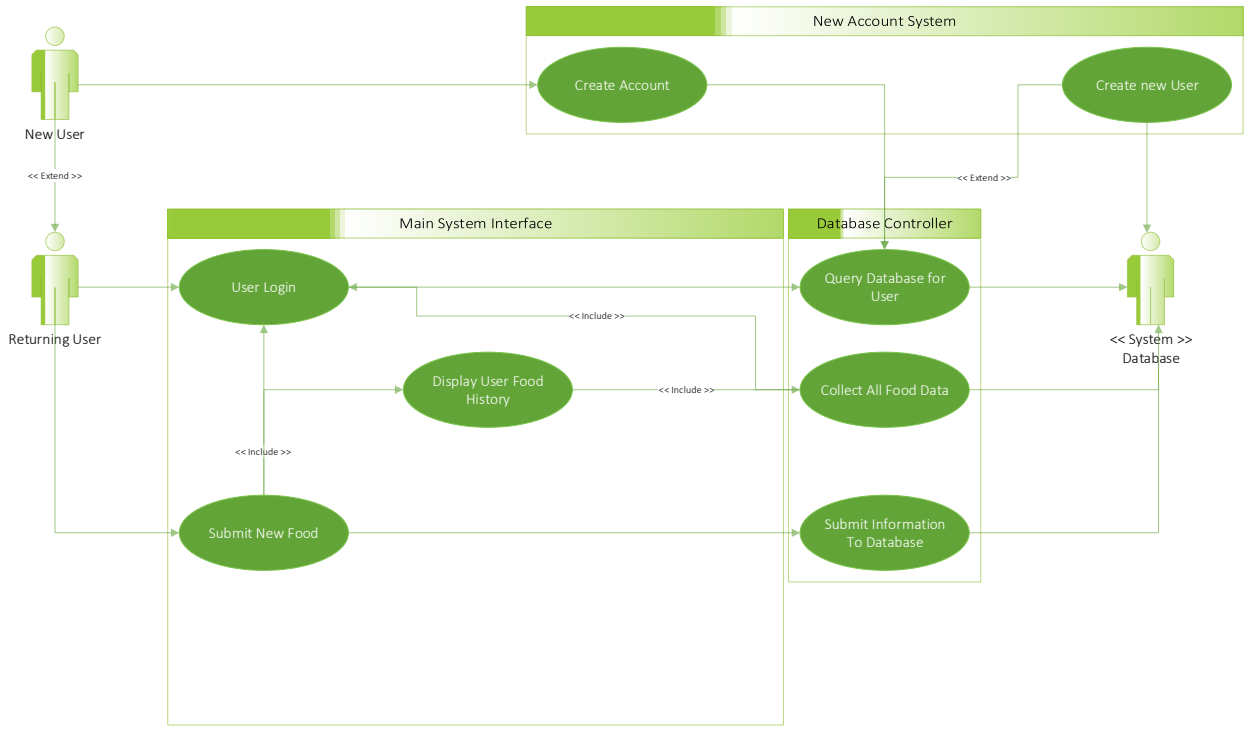


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