Use Cases

1. The System Admin puts in the order to create a new user. The admin fills out a form with all the user’s information ( privilege, name, and submits it to the database. The database then informs the admin if this add was successful.
2. The System admin wants to modify information of a user. The admin accesses the page with the users information received from the database, alters the information and submits it. The database then informs the admin if the modify was successful.
3. The System admin want to delete a user from the database. The admin finds the user on a list and clicks the delete button by their name. The database then informs the admin if this delete was successful.

**Use Case UC4: Submit Race Results**

**Primary Actor:** Delta User

**Stakeholders and Interests:**

* + Delta User: Wants accurate, fast entry, and no errors.

**Preconditions:** Delta User is identified and authenticated.

**Post conditions:** Race results are recorded. Database updated.

**Summary:** Delta user enters in data of the race and this gets stored in the database.

**Basic Flow:**

* 1. Delta user goes to webpage to create a race to add results to.
  2. Delta user enters in the results of each participant as well as age, sex, etc.
  3. Delta user submits whole race results and the database adds it to its races
  4. Database sends message back to user informing them that everything was added successfully

**Alternate Flows:**

2a. System detects an invalid input for participant:

1. System signals errors and rejects entry.
2. Sends a message to user telling them which input is invalid and why.
3. User then tries to resubmit entry.

3a. System detects an invalid input for race:

1. System signals errors and rejects entry.
2. Sends a message to user telling them which input is invalid and why.
3. User then tries to resubmit entry.

**Use Case UC5: Modify Race Results**

**Primary Actor:** Delta User

**Stakeholders and Interests:**

* + Delta User: Wants accurate, fast modification, and no errors.

**Preconditions:** Delta User is identified and authenticated. There is a race in the database that can be modified.

**Post conditions:** Race results are modified. Database updated.

**Summary:** Delta user modifies the data of an already added race and this gets stored in the database.

**Basic Flow:**

1. Delta user goes to webpage were the race they want to modify is.
2. Delta user clicks on the modify button of the race and is taken to a page were the race information can be modified.
3. Delta user modifies the fields they need to and then submit the newly modified race to the database.
4. Database sends message back to user informing them that everything was added successfully

**Alternate Flows:**

3a. System detects an invalid input for race:

1. System signals errors and rejects entry.
2. Sends a message to user telling them which input is invalid and why.
3. User then tries to resubmit entry.

6. Alpha user wants to find specific race information, like finding race by name and runners in the race by name. They go to the website search page enter the name in the field they want. They submit the search and the database creates a query for it. It then shows the user the race or runner they searched for. When they click on the race they can alter their view with the following use cases

7. When viewing races Alpha user wants to filter the results by information of runners by age, sex, etc. They toggle a button on the webpage. The toggle then sends a query to the database to only show what is filtered. The database only shows the response of the query filtering the results Alpha user wants.

8. Alpha user can also sort the results by age and sex of runners in the race. They change the sort options on the race page view and then submit this. The webpage sends a sort query to the database and the database returns the sorted data accordingly. Both 7 and 8 are altering the race view given by finding a race through the search (use case 6). The view race use case can be seen as a generalized use case from 7 and 8.