Sportify
Use-Case Specifications

Version 2.0

Revision History

Date	Version	Description	Author
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Use-Case Specifications

1. Use-Case Model

1.1 Introduction

Users of the Sportify web application will be able to view, interact with, and create events. A user accesses the application by providing their username and password, which are previously defined when the user creates an account. Users will access the application using any web browser with access to the internet. Users will have options to view details about events, sort events, search events, sign up for events, as well as create, edit, and delete their own events. All data will be stored in a database.

1.2 General Actors Descriptions

1.2.1 Customer

Interacts with this web application by reading and signing up for events in the database. Has a personal username and password to access the system.

1.2.2 Host

Interact with this web application by creating, reading, editing, and deleting events from the database. Has a personal username and password to access the system.

1.3 Use-Case Model Hierarchy

1.3.1 Mngmt - Customer

- **Description**
  This package contains all management functionalities that a customer can exert.
- **Use Cases**
  - Login
  - Logout
  - Create an account
  - View an event
  - Sign up for an event
  - Search for events
- **Actors**
  - Customer – interacts with the web application by reading and signing up for events
- **Relationships**
  - None
- **Packages Owned**
  - None

1.3.1.1 Packages Diagram

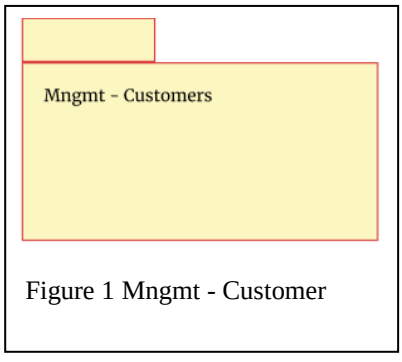

Figure 1 Mngmt - Customer

1.3.2 Mngmt - Host

- **Description**
  This package contains all management functionalities that a host can exert.
- **Use Cases**
  - Login
  - Logout
  - Create an account
  - Create an event
  - Edit an event
  - Delete an event
  - View an event
  - Sign up for an event
  - Search for events
- **Actors**
  - Host – interacts with the web application by creating, editing, and deleting events
- **Relationships**
  - None
- **Packages Owned**
  - None

1.3.2.1 Packages Diagram

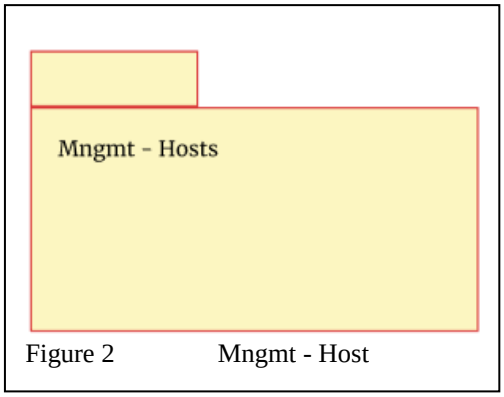

Figure 2 Mngmt - Host

1.4 Diagrams of the Use-Case Model

Diagrams of the use case model are presented in each section of the use cases below.

2. Login

2.1 Brief Description

Allowing all user types to access the web application if a valid username and password is entered.

2.2 Flow of Events

2.2.1 Basic Flow

The user will provide their username and password as strings to the login interface which will begin the login process. These entries will be validated via a database query and the results will be returned to the user.

2.2.2 Alternative Flows

None

2.3 Special Requirements

None

2.4 Preconditions

2.4.1 User profile is predefined

The user must have a predefined username and password.

2.5 Postconditions

2.5.1 User is logged in

The user is now logged in to their account and able to interact with their data accordingly.

2.6 Extension Points

2.6.1 Validate Query – include

The application validates the entered username and password.

2.7 Relationships

None

2.8 Use-Case Diagrams

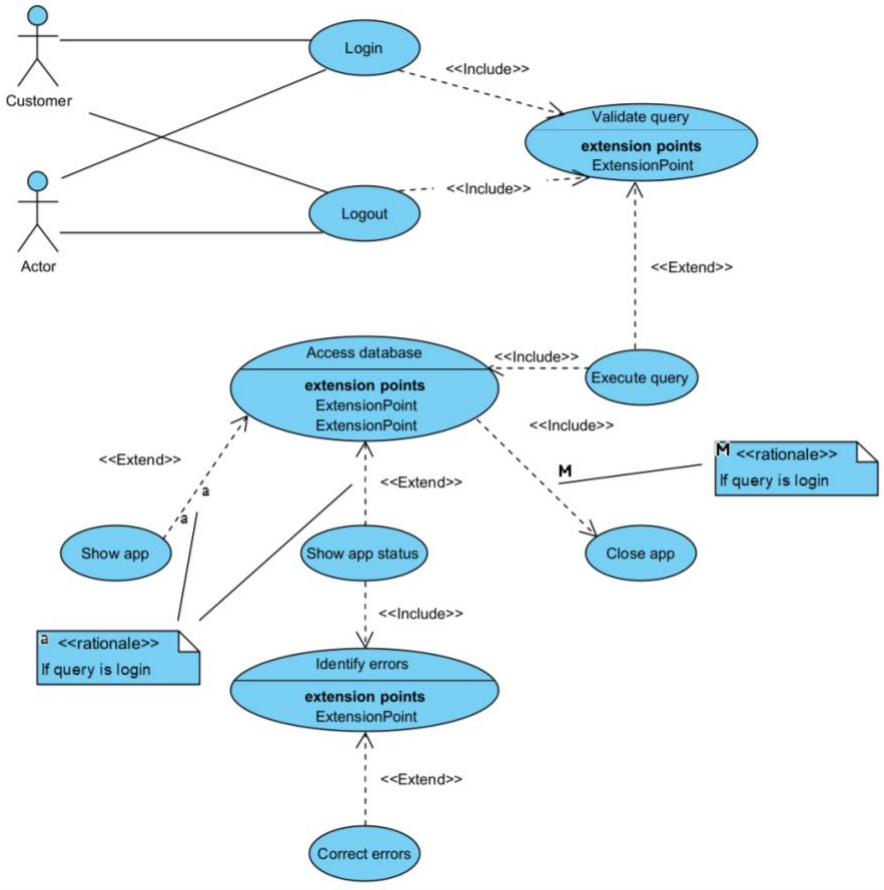

Figure 3 Login/Logout

2.9 Other Diagrams

None

3. Logout

3.1 Brief Description

Allowing all user types to logout of the application

3.2 Flow of Events

3.2.1 Basic Flow

The user will select to logout of the web application and they will be redirected to a page to reenter their username and password in order to log in.

3.2.2 Alternative Flows

None

3.3 Special Requirements

None

3.4 Preconditions

3.4.1 User profile is logged in

The user must be logged into the application.

3.5 Postconditions

3.5.1 User is logged out

The user will no longer be able to access their account until they reenter their username and password.

3.6 Extension Points

None

3.7 Relationships

None

3.8 Use-Case Diagrams

Refer to Figure 3.

3.9 Other Diagrams

None

4. Create an account

4.1 Brief Description

Users of all types will be able to create an account to access the web application.

4.2 Flow of Events

4.2.1 Basic Flow

The user will provide a username and password to the create account interface and their data will be added to the database accordingly.

4.2.2 Alternative Flows

None

4.3 Special Requirements

None

4.4 Preconditions

None

4.5 Postconditions

4.5.1 Account is created

The user's account is now created and can be accessed by the user via the login interface.

4.6 Extension Points

None.

4.7 Relationships

None

4.8 Use-Case Diagrams

Refer to Figure 3.

4.9 Other Diagrams

None

5. Create an event

5.1 Brief Description

Hosts will be able to create an event with specifications related to the event name, location, date and time, and the category of the event.

5.2 Flow of Events

5.2.1 Basic Flow

The user will provide an event name, location, date and time, and the category of the event they with to create. This event will be added to the database.

5.2.2 Alternative Flows

None

5.3 Special Requirements

None

5.4 Preconditions

5.4.1 User is logged in

The user must have already logged in with their username and password.

5.5 Postconditions

5.5.1 Event is created

The event will be added to the database and will now appear on the home pages of other users and will be searchable.

5.6 Extension Points

None.

5.7 Relationships

None

5.8 Use-Case Diagrams

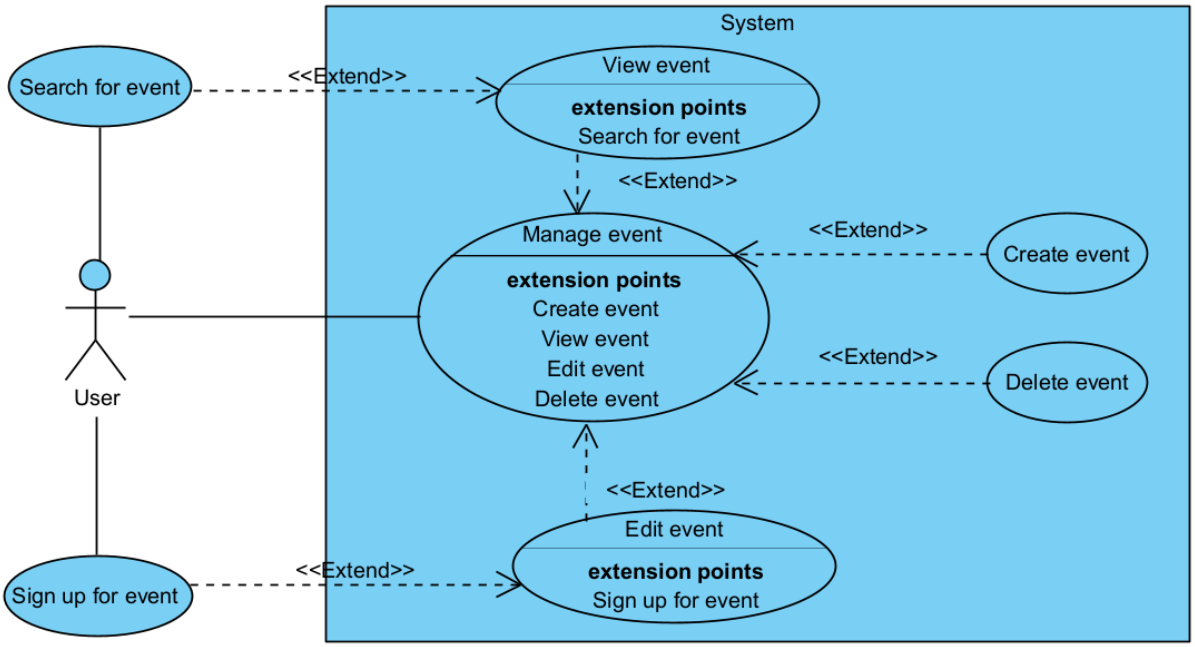

Figure 4 View event/Create event/Delete event/Edit event/Search for event/Sign up for event

5.9 Other Diagrams

None

6. Edit an event

6.1 Brief Description

Hosts will be able to edit the details of events, including the name of the event, location, date and time, and category of the event, that they have created.

6.2 Flow of Events

6.2.1 Basic Flow

The user will access an event that they have created and will be able to edit the specifications of the event, including the name of the event, location, time and date, and category via an interface. Entries will then be updated in the database.

6.2.2 Alternative Flows

None

6.3 Special Requirements

None

6.4 Preconditions

6.4.1 User is logged in

The user must have already logged in with their username and password.

6.5 Postconditions

6.5.1 Event is edited

The specifications of the event will be updated in the database according to the user's changes.

6.6 Extension Points

None.

6.7 Relationships

None

6.8 Use-Case Diagrams

Refer to Figure 4.

6.9 Other Diagrams

None

7. Delete an event

7.1 Brief Description

Hosts will be able to delete events that they have created from the database.

7.2 Flow of Events

7.2.1 Basic Flow

The user will access an event that they have created and will be able delete the event. The event will be removed from the database and will no longer be displayed to any users and will no longer appear in search queries made by any users.

7.2.2 Alternative Flows

None

7.3 Special Requirements

None

7.4 Preconditions

7.4.1 User is logged in

The user must have already logged in with their username and password.

7.5 Postconditions

7.5.1 Event is deleted

The event will be deleted from the database and will no longer be accessible by any users.

7.6 Extension Points

None.

7.7 Relationships

None

7.8 Use-Case Diagrams

Refer to Figure 4.

7.9 Other Diagrams

None

8. View an event

8.1 Brief Description

All users will be able to view the details of events, including the name, location, date and time, and category of events that are in the database.

8.2 Flow of Events

8.2.1 Basic Flow

The user select an event from their home page to view, they will then be directed to a page which shows the details, including the event name, location, date and time, and category of the event.

8.2.2 Alternative Flows

None

8.3 Special Requirements

None

8.4 Preconditions

8.4.1 User is logged in

The user must have already logged in with their username and password.

8.5 Postconditions

None

8.6 Extension Points

None.

8.7 Relationships

None

8.8 Use-Case Diagrams

Refer to Figure 4.

8.9 Other Diagrams

None

9. Signup for an event

9.1 Brief Description

Users will be able to signup to events that have been created by other hosts. The user will then be added to the guest list of the event in the database and will receive the information of the host of that specific event.

9.2 Flow of Events

9.2.1 Basic Flow

The user will select an event from the home page or from search results. They will select the “Sign Up for Event” button, which will add the user to the guest list of the event in the database. The user will then receive the information of the host who has created the event.

9.2.2 Alternative Flows

None

9.3 Special Requirements

None

9.4 Preconditions

9.4.1 User is logged in

The user must have already logged in with their username and password.

9.5 Postconditions

9.5.1 User is signed up for event

The user will be added to the guest list of the event.

9.6 Extension Points

None.

9.7 Relationships

None

9.8 Use-Case Diagrams

Refer to Figure 4.

9.9 Other Diagrams

None

10. Search for events

10.1 Brief Description

All users will be able to perform search queries to find events by their details, including the name of the event, location, date and time, and the category of the event.

10.2 Flow of Events

10.2.1 Basic Flow

The user will select the search bar within the web application and will type their search query into the search bar. The results of the query will be displayed to the user.

10.2.2 Alternative Flows

None

10.3 Special Requirements

None

10.4 Preconditions

10.4.1 User is logged in

The user must have already logged in with their username and password.

10.5 Postconditions

None

10.6 Extension Points

None.

10.7 Relationships

None

10.8 Use-Case Diagrams

Refer to Figure 4.

10.9 Other Diagrams

None