
Sportify

Sportify
Use-Case-Realization Specification

Version 2.0

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Revision History

Date	Version	Description	Author
<23/10/2022>	<1.0>	Added the initial use-case-realization specifications	Firangiz Ganbarli
<27/10/2022>	<2.0>	Formatted the document, changed the sequence diagram to match the others	Raven Duong

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1. Introduction

1.1 Purpose

This document provides a comprehensive overview of the system, using a number of different diagrams for representing the system functions.

1.2 Scope

Sportify is a social media app that allows sport enthusiasts to see recreational events around them and create their own events to gather sign-ups. This Use Case Realization document provides an overview of the use cases developed in Sportify.

1.3 References

1.3.1 *Sportify – Use Case Specification*

1.3.2 *Supplementary Specifications*

1.4 Overview

The sections of the Use Case Realization document describe use cases in terms of their flow of events, participating objects and corresponding diagrams.

2. Use-Case <Login>

2.1 Brief Description

This Use-Case defines how users are logged into the system and get access to their respective functionalities.

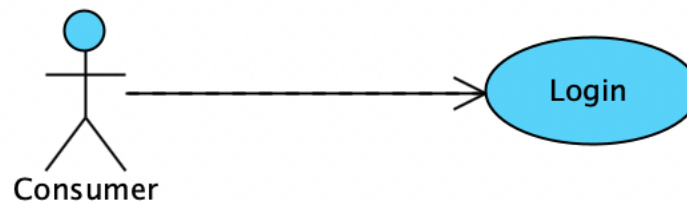


Figure 1: Login

2.2 Flow of Events

The user provides his username and password and submits the form. Data is validated and login process is activated.

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2.3 Interaction Diagrams

- The user enters their username and password and submits the data
- Browser receives the query and loads the webpage

2.3.1 Sequence Diagrams

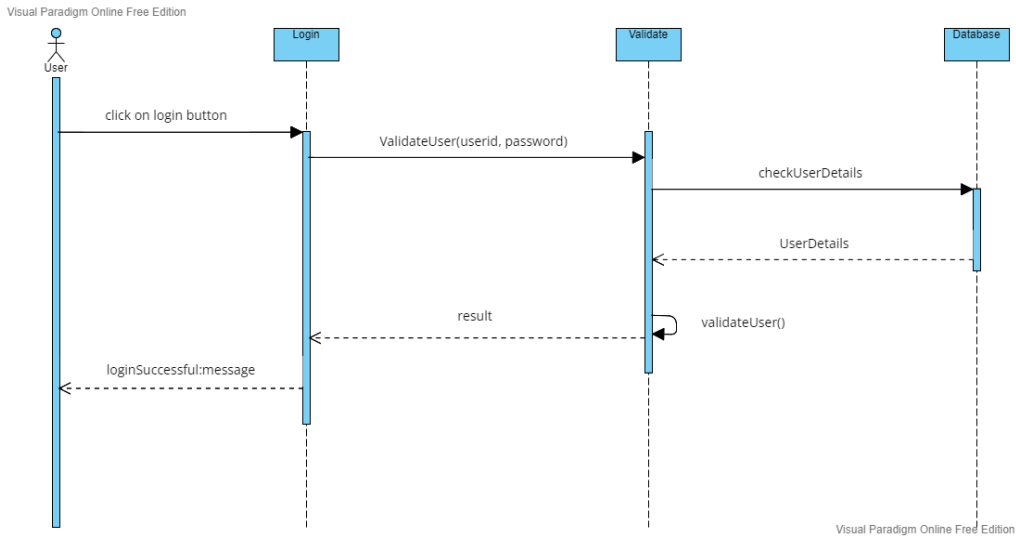


Figure 2: Sequence Diagram - Login

2.4 Participating Objects

The following objects collaborate and define the Use-Case <Login>:

- Observable: This object represents the visible interface of the application and allows the user to login to their account.
- Server: This object executes and validates the Login query by communicating with the database.

2.5 Object Diagram

The following Object Diagram shows the relations and constraints between Classes and Objects that are involved in this use-case.

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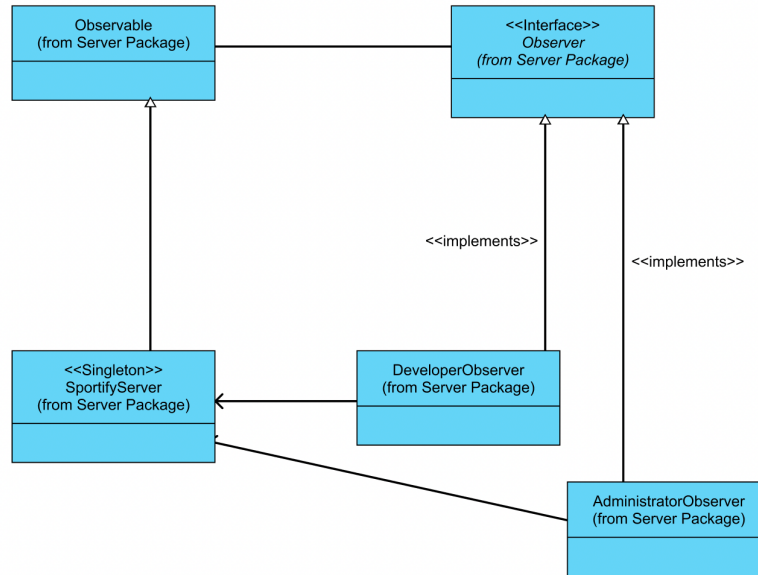


Figure 3: Object Diagram - Login

3. Use-Case <Logout>

3.1 Brief Description

This Use-Case defines how users are logged out from the system and exit the application normally.

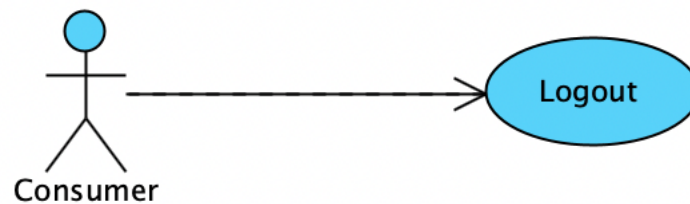


Figure 4: Logout

3.2 Flow of Events

The user exits the application by clicking the appropriate “Log out” button. Query is validated, and logout process is activated.

3.3 Interaction Diagrams

- The user clicks on the Logout button
- The Internet Browser receives the query and logs the user out of the system, redirecting to the appropriate webpage.

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3.3.1 Sequence Diagrams

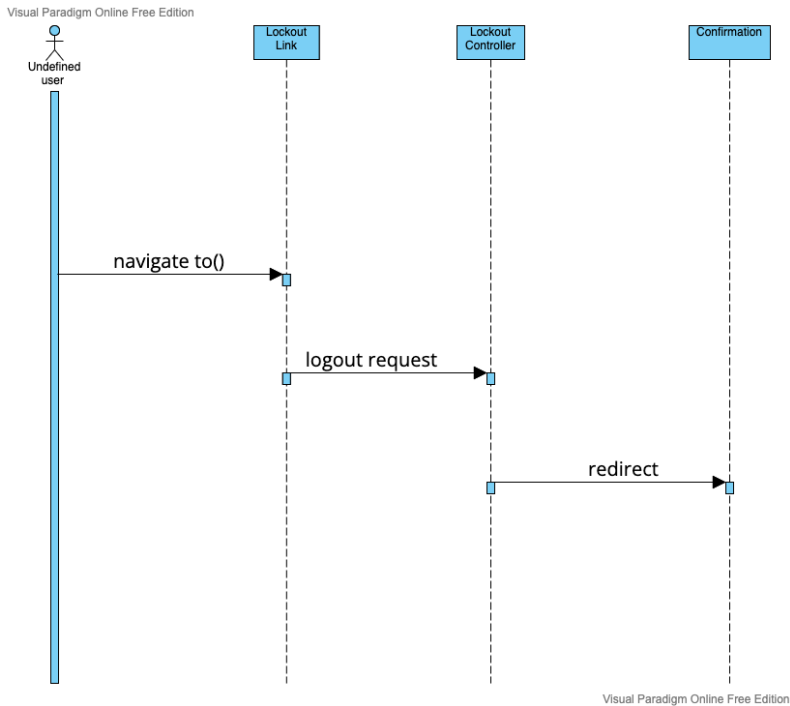


Figure 5: Sequence Diagram - Logout

3.4 Participating Objects

The following objects collaborate and define the Use-Case <Logout>:

- Observable: This object represents the visible interface of the application and allows the user to log out of their account.
- Server: This object executes and validates the Logout query by communicating with the database.

3.5 Object Diagram

The following Object Diagram shows the relations and constraints between Classes and Objects that are involved in this use-case.

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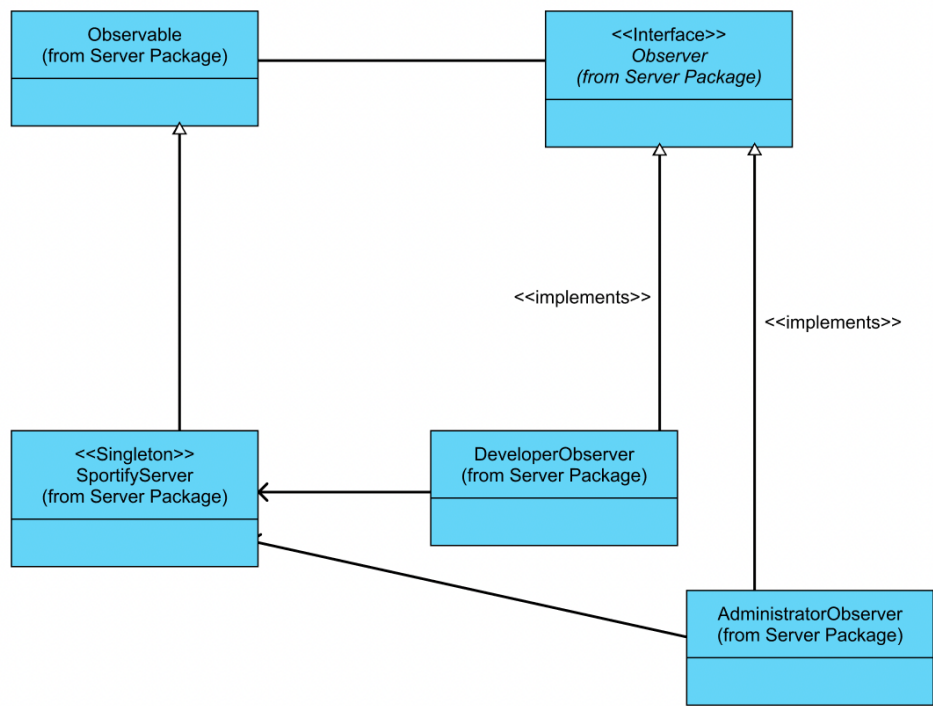


Figure 6: Object Diagram: Logout

4. Use-Case <Create an account>

4.1 Brief Description

This Use-Case defines how users create an account on the website.

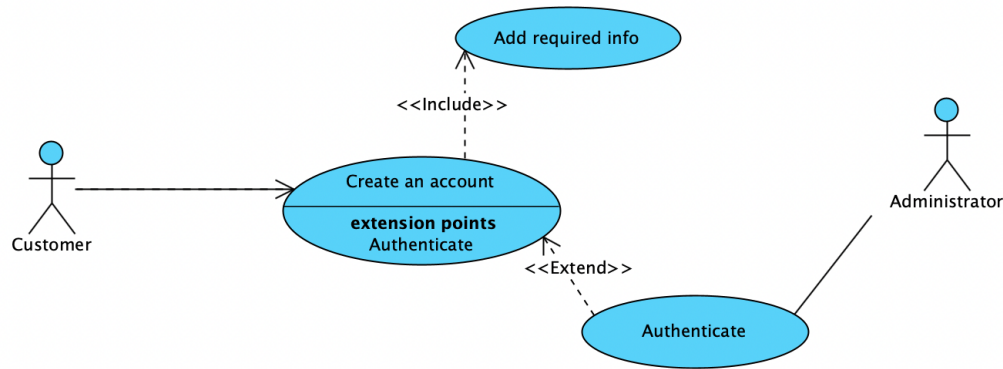


Figure 7: Create an account

4.2 Flow of Events

The user clicks on Create an account button and fills out the required information. The administrator authenticates their given info.

4.3 Interaction Diagrams

- The user clicks on Create an account button

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- The query is received the Internet Browser, which communicates with the Authentication services to verify user and then redirects them to log in page.

4.3.1 Sequence Diagrams

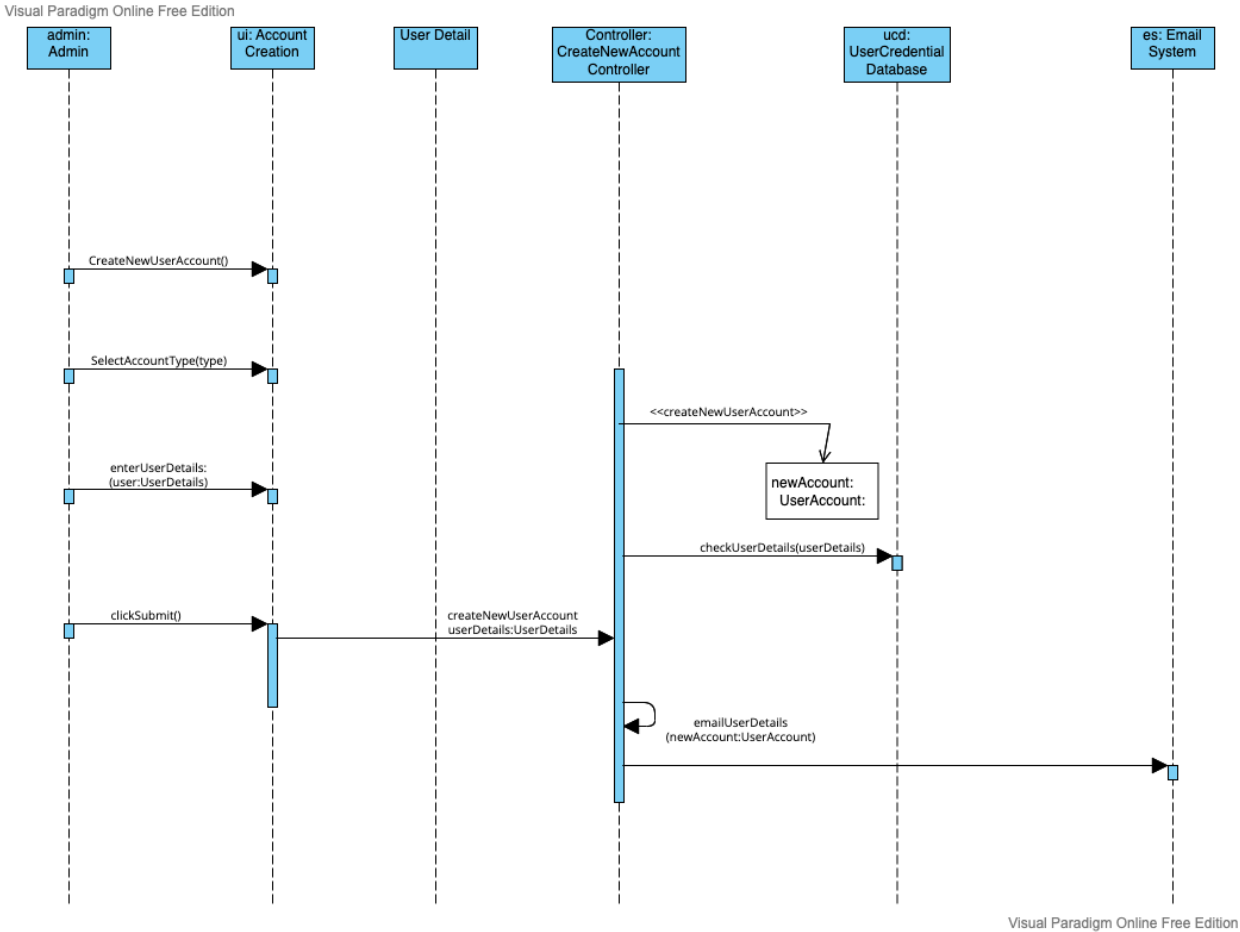


Figure 8: Sequence Diagram - Create an account

4.4 Participating Objects

The following objects collaborate and define the Use-Case <Create an account>:

- Observable: This object represents the visible interface of the application and allows the user to create an account
- Server: This object interacts with the database to create the user’s account

4.5 Object Diagram

The following Object Diagram shows the relations and constraints between Classes and Objects that are involved in this use-case.

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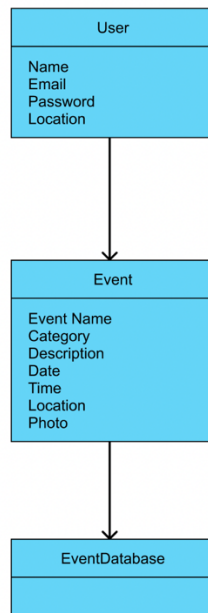


Figure 9: Object Diagram - Create an account

5. Use-Case <Create an event>

5.1 Brief Description

This Use-Case defines how users create their own event on the website.

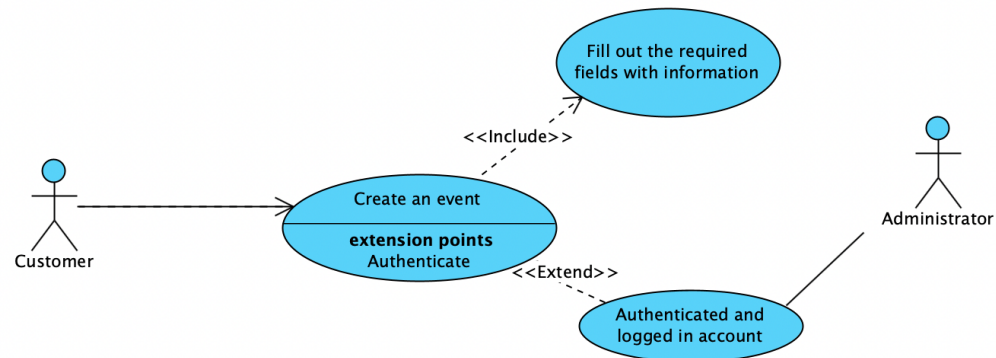


Figure 10: Create an event

5.2 Flow of Events

The user creates a new event on the webpage by clicking the appropriate “Create an event” button. Query is validated, and they are directed to the “Create an event” page where they fill out the appropriate fields of the form and submit.

5.3 Interaction Diagrams

- The user clicks on Create an event button
- Query is received by the Internet Browser, and the user is redirected to the “Create an event” page
- Once the required information is filled out, the query is received and the event details are added to the database.

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5.3.1 Sequence Diagrams

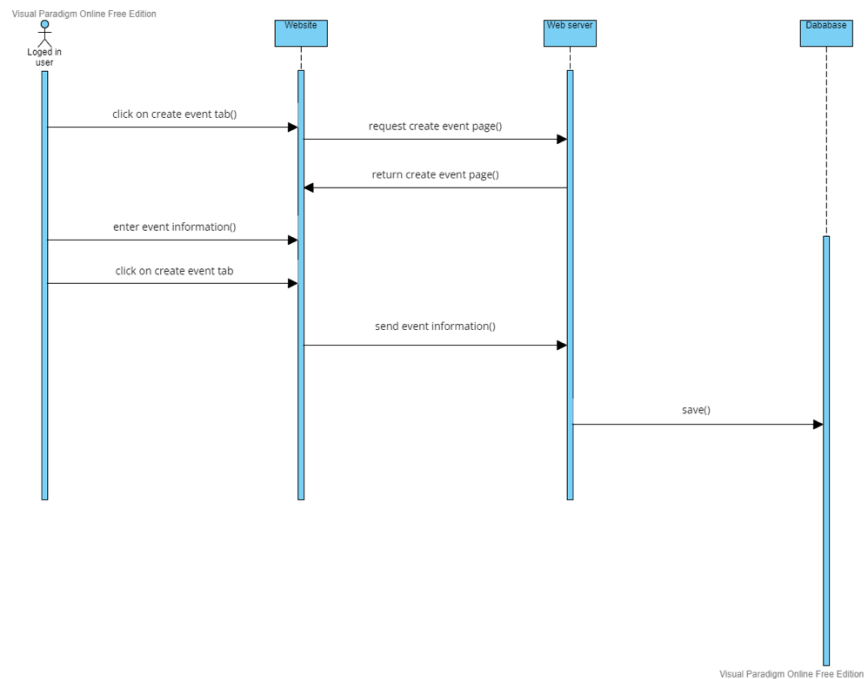


Figure 11: Sequence Diagram - Create an event

5.4 Participating Objects

The following objects collaborate and define the Use-Case <Create an event>:

- Observable: This object represents the visible interface of the application and allows the user to create an event
- Server: This object interacts with the database to create the user’s event.

5.5 Object Diagram

The following Object Diagram shows the relations and constraints between Classes and Objects that are involved in this use-case.

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Figure 12: Object Diagram - Create an event

6. Use-Case <Edit an event>

6.1 Brief Description

This Use-Case defines how users can edit the event information after they have already created an event.

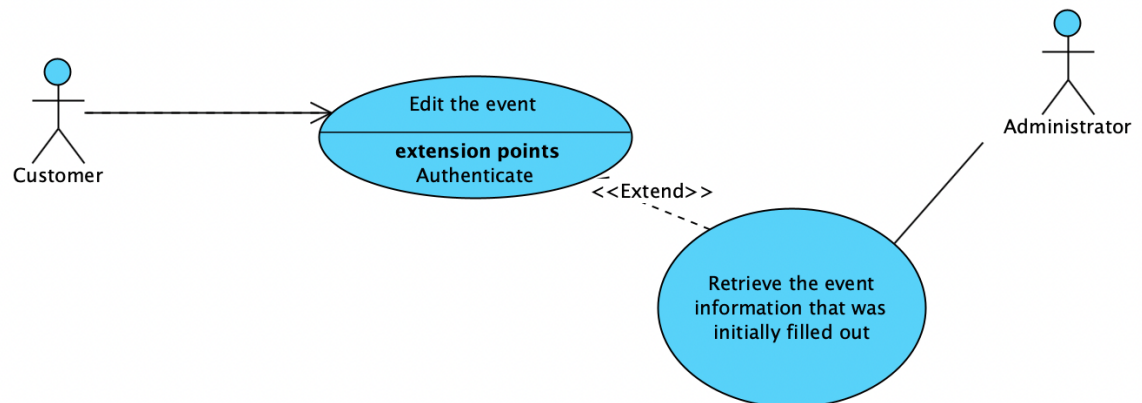


Figure 13: Edit an event

6.2 Flow of Events

The user can edit the event they already created by clicking on the “Edit event details” button and then change the appropriate field and submit the form again.

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6.3 Interaction Diagrams

- The user clicks on “Edit event details” button
- The browser receives the query, and redirects to the event details page where user can change info
- This updated info is added to the database

6.3.1 Sequence Diagrams

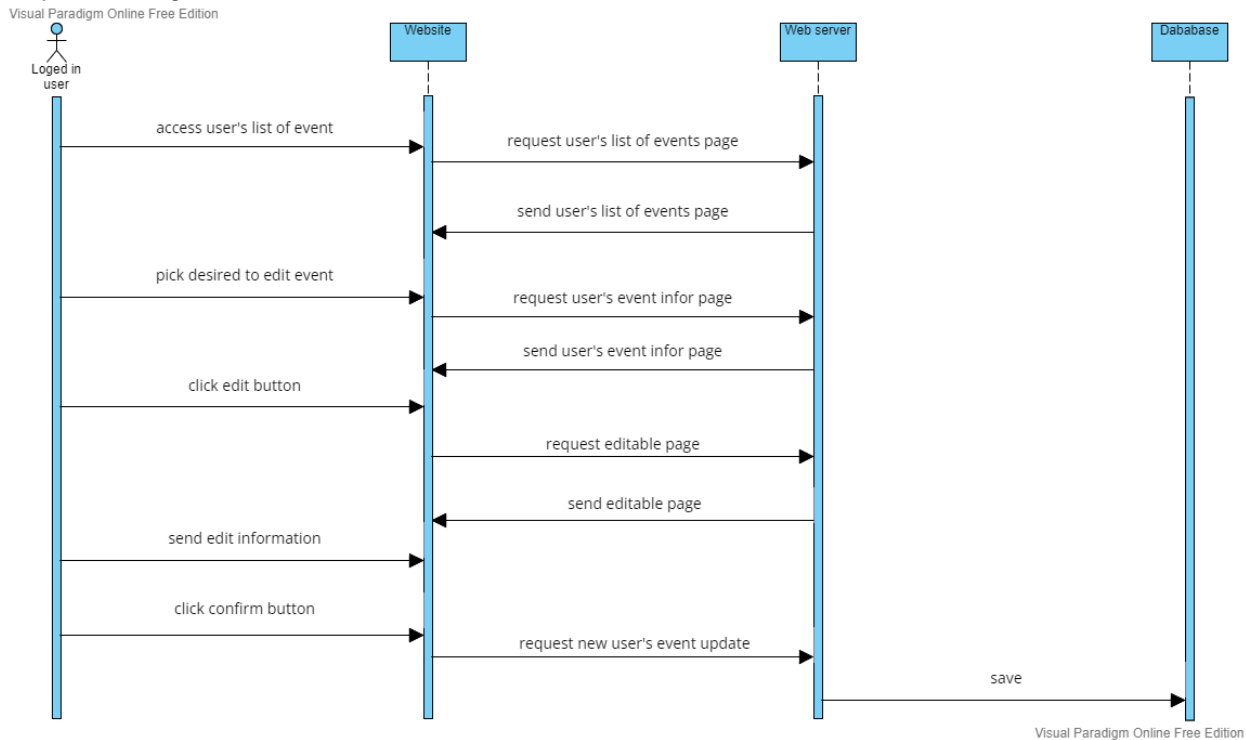


Figure 14: Sequence Diagram - Edit event

6.4 Participating Objects

The following objects collaborate and define the Use-Case <Edit an event>:

- Observable: This object represents the visible interface of the application and allows the user to edit their event.
- Server: This object interacts with the database to edit the user’s event.

6.5 Object Diagram

The following Object Diagram shows the relations and constraints between Classes and Objects that are involved in this use-case.

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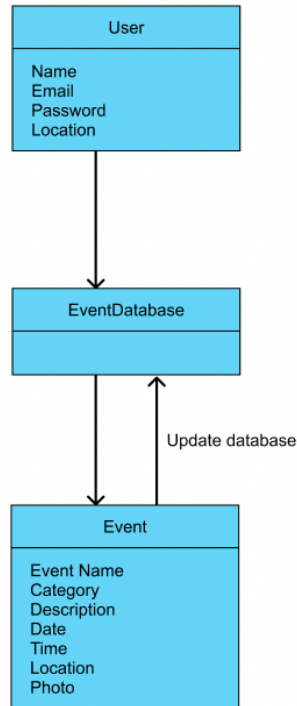


Figure 15: Object diagram - Edit an event

7. Use-Case <Delete an event>

7.1 Brief Description

This Use-Case defines how users can delete the event they created.

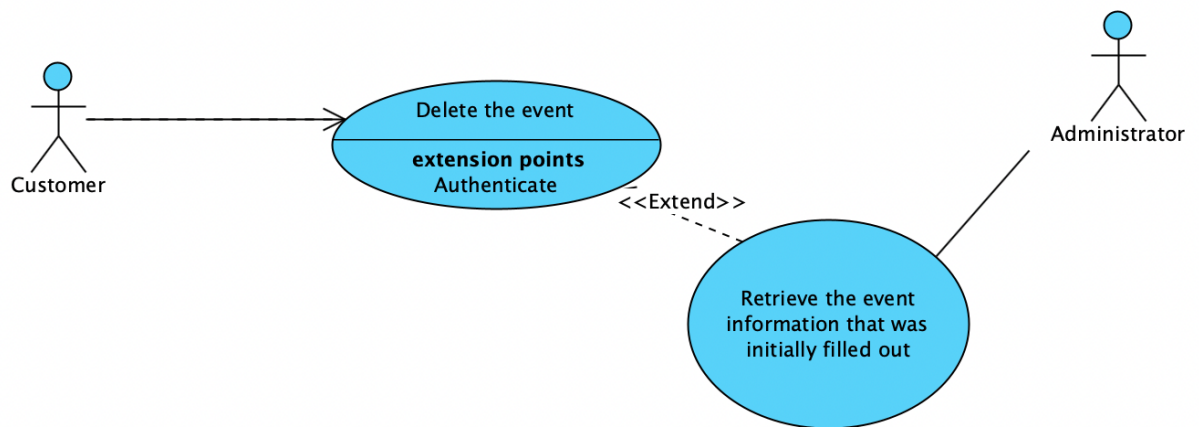


Figure 16: Delete an event

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7.2 Flow of Events

The user can simply click on edit event button to be redirected to that page, where they can click on “Delete event” button to delete the event all together.

7.3 Interaction Diagrams

- The user launches “Edit event” page where they click on “Delete the event” button
- The Internet Browser receives this query, and communicates with database to delete the appropriate information.

7.3.1 Sequence Diagrams

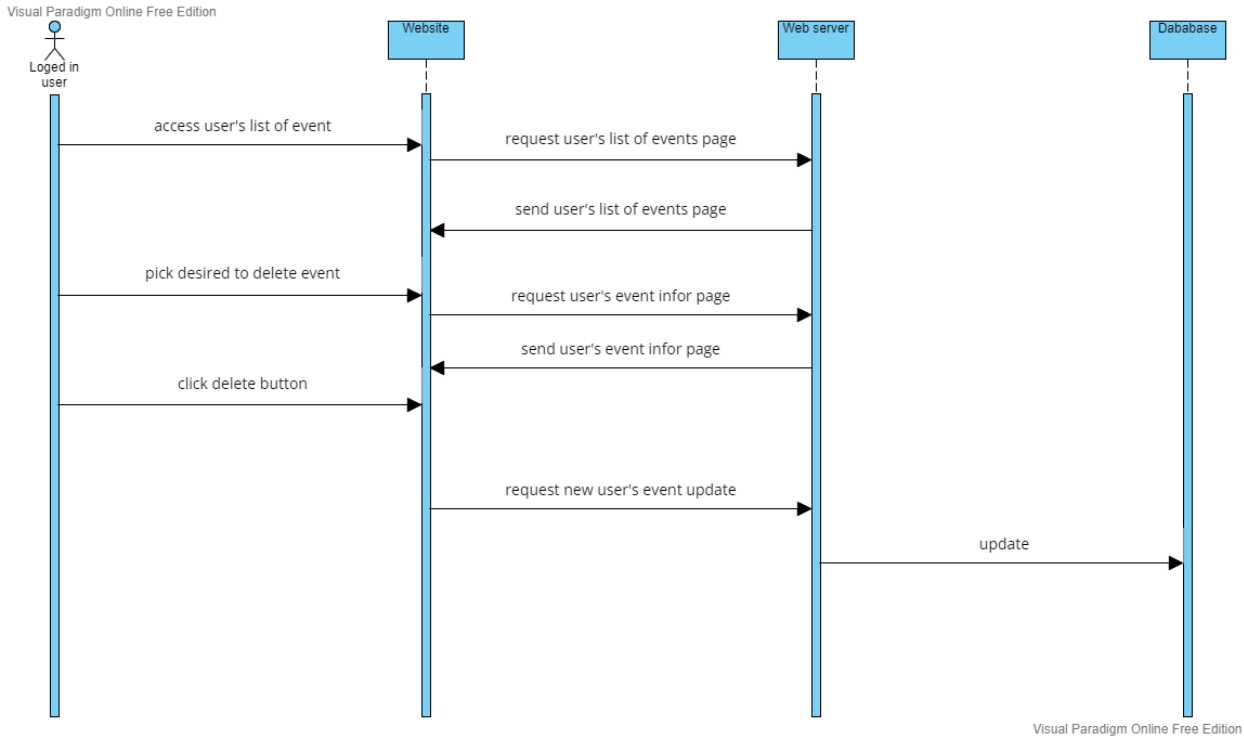


Figure 17: Sequence Diagram - Delete an event

7.4 Participating Objects

The following objects collaborate and define the Use-Case <Delete event>:

- Observable: This object represents the visible interface of the application and allows the user to delete their event.
- Server: This object executes and validates the Delete event query by communicating with the database.

7.5 Object Diagram

The following Object Diagram shows the relations and constraints between Classes and Objects that are involved in this use-case.

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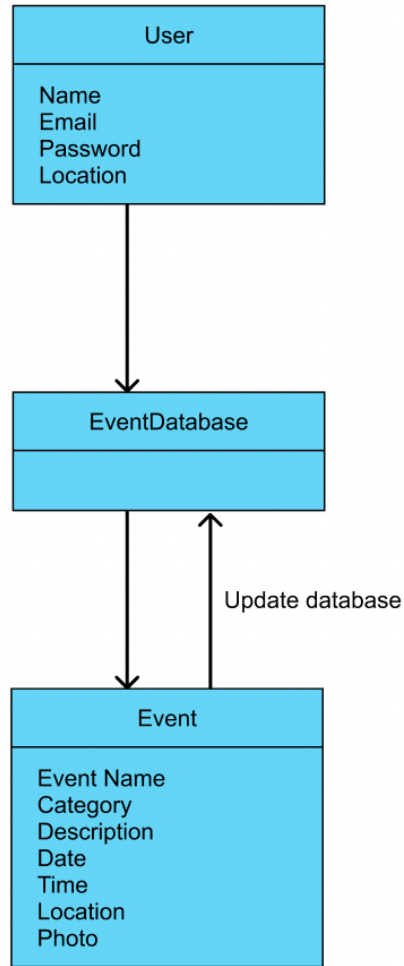


Figure 18: Object Diagram - Delete an event

8. Use-Case <View an event>

8.1 Brief Description

This Use-Case defines how users can view an event.

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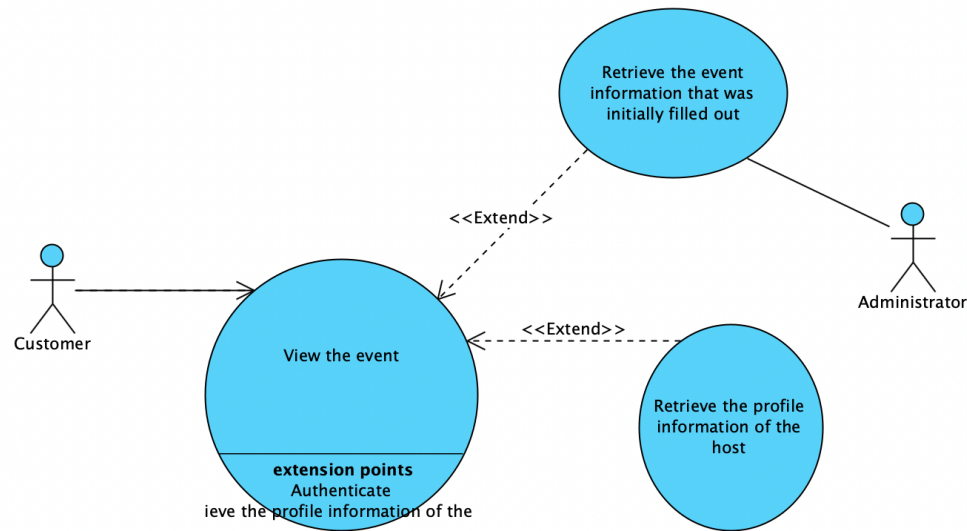


Figure 19: View an event

8.2 Flow of Events

The user can simply click on the event itself from the search or home page, when the query is recognized, the process of retrieving the event and host information will be initiated, and then the info will be displayed.

8.3 Interaction Diagrams

- The user clicks on the event
- The Internet Browser receives the query and communicates with the database to display the necessary information.

8.3.1 Sequence Diagrams

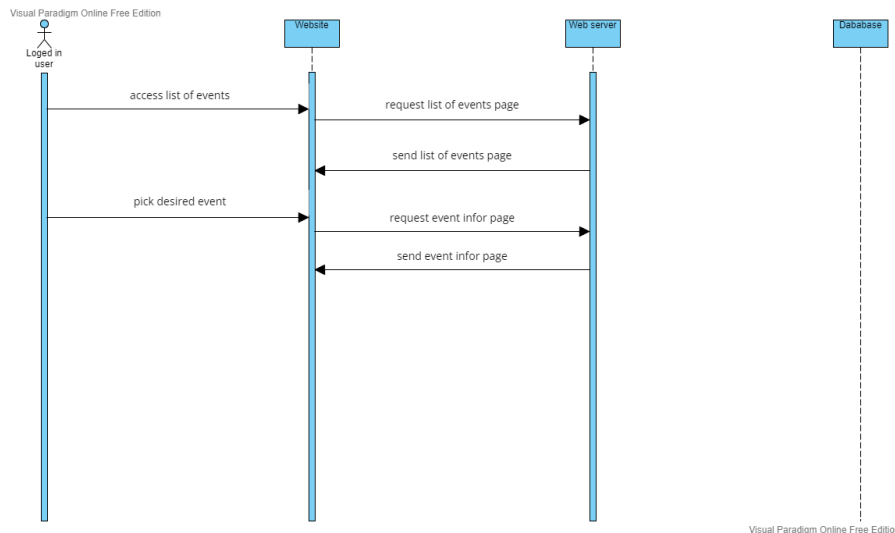


Figure 20: Sequence Diagram - View an event

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8.4 Participating Objects

The following objects collaborate and define the Use-Case <View an event>:

- Observable: This object represents the visible interface of the application and allows the user to view an event.
- Server: This object interacts with the database to display an event.

8.5 Object Diagram

The following Object Diagram shows the relations and constraints between Classes and Objects that are involved in this use-case.

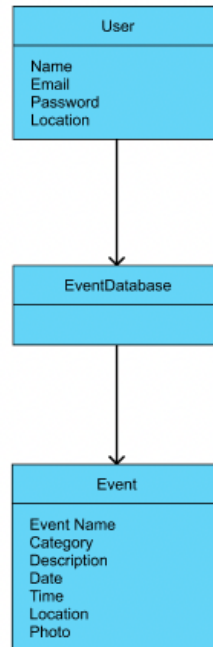


Figure 21: Object diagram - View an event

9. Use-Case <Sign up for an event>

9.1 Brief Description

This Use-Case defines how users can sign up for an event.

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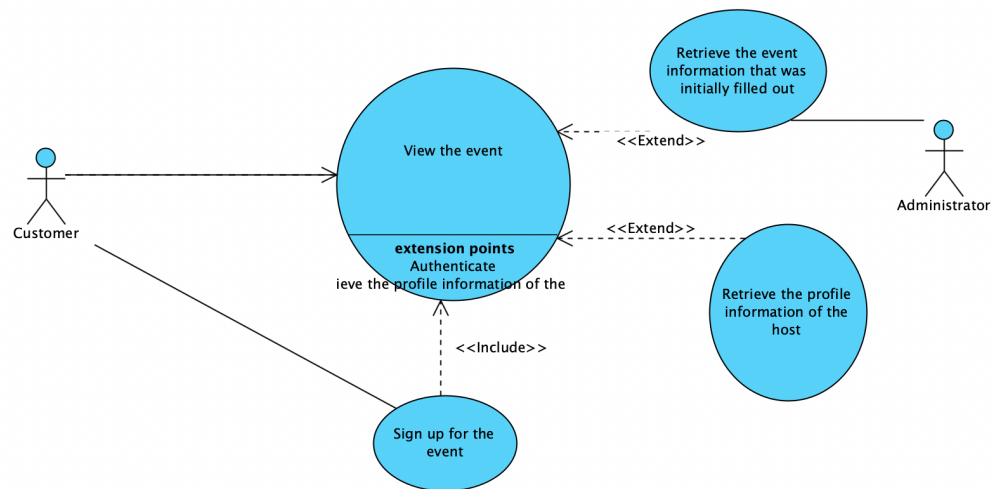


Figure 22: Sign up for an event

9.2 Flow of Events

On the event information page, the user can simply click on sign up for the event to be officially registered for it.

9.3 Interaction Diagrams

- The user clicks on “Sign up for event” button
- The Internet Browser receives the query, and updates the webpage accordingly
- Database adds the user to the list of registered people for the event

9.3.1 Sequence Diagrams

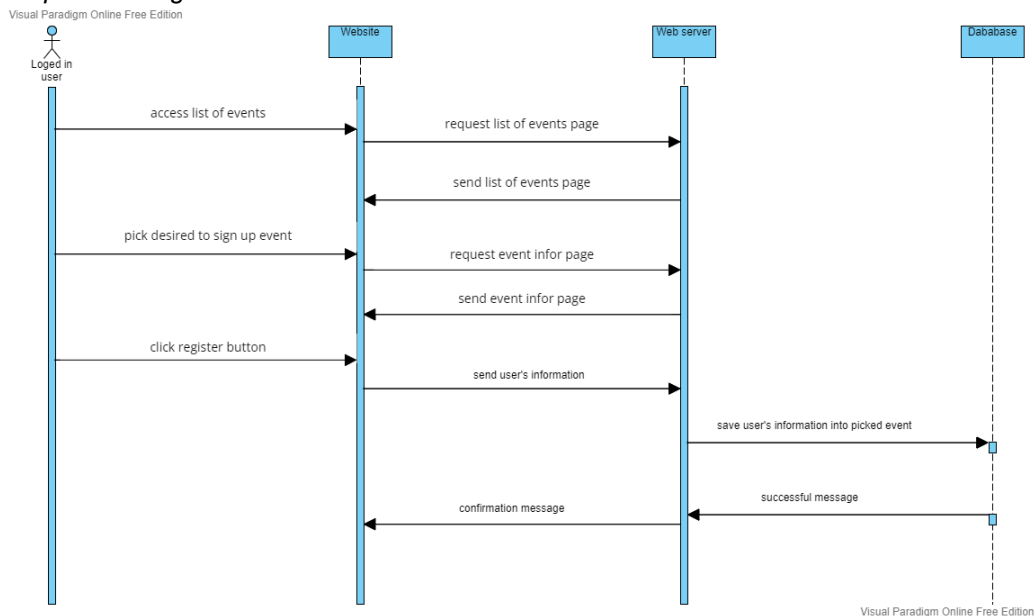


Figure 23: Sequence diagram - Sign up for an event

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9.4 Participating Objects

The following objects collaborate and define the Use-Case <Sign up for an event>:

- Observable: This object represents the visible interface of the application and allows the user to sign up for an event.
- Server: This object executes and validates the Signup query by communicating with the database.

9.5 Object Diagram

The following Object Diagram shows the relations and constraints between Classes and Objects that are involved in this use-case.

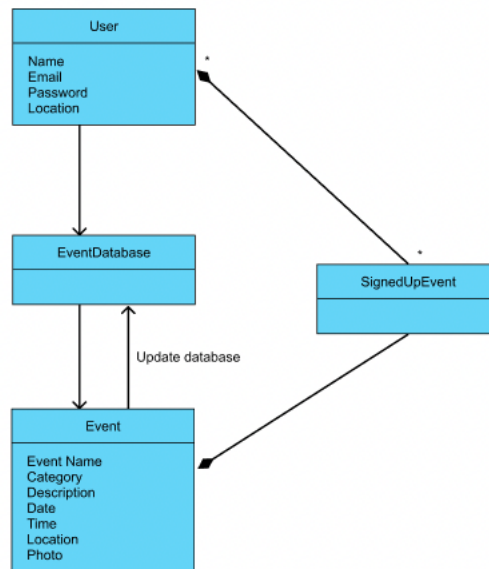


Figure 24: Object diagram - Sign up for an event

10. Use-Case <Search for an event>

10.1 Brief Description

This Use-Case defines how users can search for an event using the search bar on the navbar.

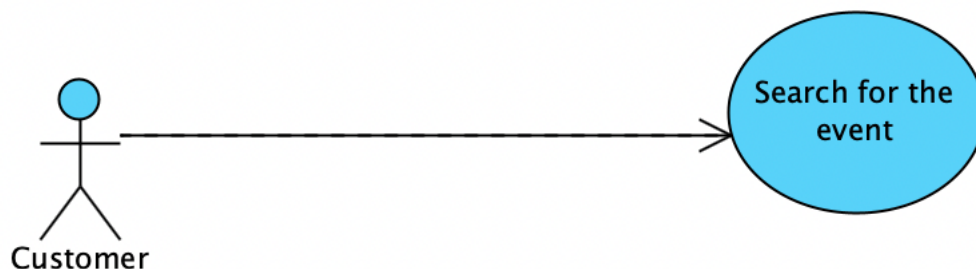


Figure 25: Search for an event

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10.2 Flow of Events

Anywhere on the website, the users have access to the navigation bar, so they can use the search field to search for the event they want and once the query is received and processed, the page will display the list of events that match that query.

10.3 Interaction Diagrams

- The user types their search query
- The Internet Browser receives this query and searches the database for the keywords and displays the events that match that query.

10.3.1 Sequence Diagrams

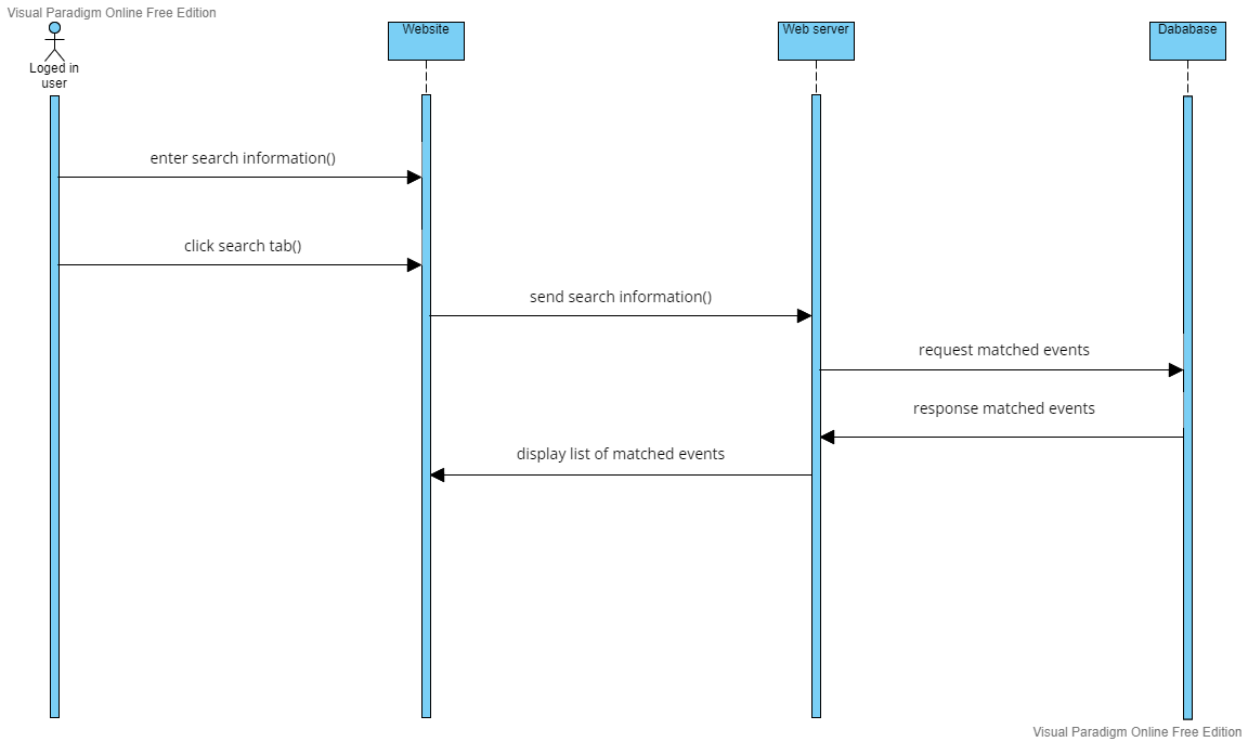


Figure 26: Sequence Diagram - Search for an event

10.4 Participating Objects

The following objects collaborate and define the Use-Case <Search for an event>:

- Observable: This object represents the visible interface of the application and allows the user to search for an event.
- Server: This object interacts with the database to display the search results of events.

10.5 Object Diagram

The following Object Diagram shows the relations and constraints between Classes and Objects that are involved in this use-case.

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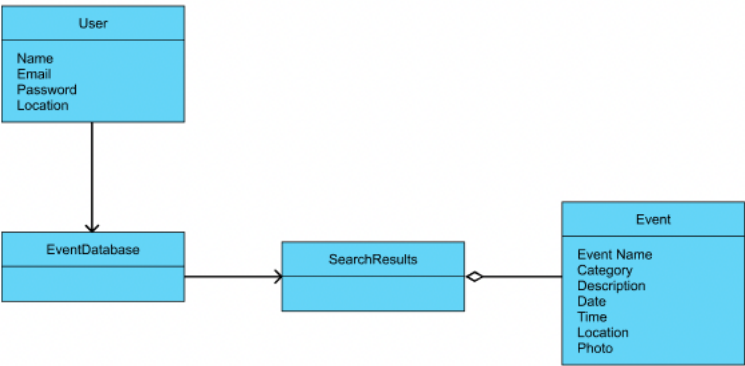


Figure 27: Object Diagram - Search for an event