SENG2021 Deliverable 2

1. Introduction

“The Launch” is a platform to discover local music events. From festivals, concerts, to lives and fans meetings. It allows anyone to find, schedule and share music events that fuel their passions and enrich their lives.

1.1 Team Members

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2. Software Architecture

2.1 Server Side

“The Launch” will be hosted on a Linux virtual machine in Microsoft Azure Stack Hub. The server-side web application uses Python 3.x and Flask framework, it runs in a virtual environment on an Nginx server. MySQL will be used as the central database server.
All communication with clients has to comply with public HTTPS, TCP/IP communication protocol standards.

2.2 Client Side

Users/Clients will be able to access “The Launch” only online. Being a web based application, the underlying client OS can be any PC operating system(Windows, Linux, MacOS, etc). Users/Clients are expected to use a modern ES5-compliant web browser such as Google Chrome, Mozilla Firefox, Safari or Internet Explorer 10 or newer to get full user experience.
As for the client-side programming, a combination of HTML, JavaScript and CSS will be used to create the logic of the website and generate dynamic web pages with the support of VueJS framework.

2.3 External Data Sources

Since the project highly relies on external information archives, the team has applied for access to many third-party APIs, the use of each API is listed below:

- ❏ Google Calendar API - For adding events and notifications to a user’s personal Google Calendar
- ❏ Bandsintown API - For obtaining details of events, artists, and links to ticket agents
- ❏ Songkick API - For obtaining details of events and artists by a list of filters such as venue, time or metro are.
- ❏ Eventbrite API - This API has similar use as Songkick API but provides a more extensive range of data. It also has an integrated checkout system.

2.4 Summary

In order to minimize the amount of time the team members have to spend on self-learning, the team decided the above web stacks as one of the team members had development experience based on these tools. Microsoft Azure is open for free to UNSW students, it also has a detailed documentation and instructions to help developers put their hands on. Hence that it makes the deployment easier and cheaper.

3. Initial Software Design

3.1 Updated Use Cases

Team's statement

- ★ **Removing unnecessary/ adding new requirements:**

Our team decided to remove the previous requirement "*Layout and design of the home page is unclear and not user-friendly*" as there were no strong features under this requirement, which made it unnecessary to include. Instead, we add a new requirement: *"Users cannot categorize the events based on whether they're going or not"* which allows the users to mark the events as either "I'm going" or "I'm interested", and provides users a direct link to the ticketing website if they wish to purchase a ticket for the event.

- ★ **Modifying previous/ adding new features:**

Our team decided to add new features such as "*Reply to Comments*" which makes a more interesting user experience, whereby users have the ability to respond to comments and communicate to other users, as well as completely change the implementation of some requirements, such as having a "Customer Enquiry" feature instead of the previous "Live Chat" feature, which was a decision made to simplify our work load, as we had come to the conclusion that the implementation of a "Live Chat" would be too complicated and difficult.

Below are the updated list of user stories / use cases:

1. ***Requirement:*** There is no comment section for users to share their opinions about an event

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   Feature: Write comments
   As a: User
   So that: I can share my personal thoughts and opinions about an upcoming event
   I want to comment about an event

   GIVEN that I'm on a particular event page
   WHEN I scroll down to the bottom of the page
   THEN there is an input bar and a "Post" button to the right
   WHEN I type in my comment
   AND click the "Post" button
   THEN I should see my comment appear in the list of comments

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Feature: View comments
As a: User
So that: I can read what others think about the event
I want to view previous comments by other users

GIVEN that I'm on a particular event page
WHEN I scroll down to the bottom of the page
THEN I can see comments posted by other users

Feature: Reply to comments
As a: User
So that: I can share my personal thoughts and opinions about an existing comment
I want to reply to the comment

GIVEN that I'm on a particular event page
WHEN I scroll down to the bottom of the page
THEN I can see comments posted by other users
WHEN I click on "Reply" under the comment
THEN then a new input field will appear
WHEN I type in my comment and click on the enter key
THEN I should see my reply under the original comment

2. ***Requirement:*** Event recommendations are not personalized or interactive

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Feature: Recommend events based on user's music preference
As a: User
So that: I can see events that I am interested in
I want to see a personalized list of recommended events based on my music preferences

GIVEN that I sign up with a new account, and a pop-up window shows up prompting me to tick the music genres that I am interested in
WHEN I tick the Rock and Pop box and click save
AND I click on 'Events for you' button on the left sidebar
THEN I will be redirected to a page that lists all the events tagged under Rock and Pop.

Feature: Follow artists I'm interested in
As a: User
So that: I won't miss the events of particular artists
I want to follow an artist that I am interested in

GIVEN that I am on a particular artist's page
WHEN I click on the 'Follow' button
AND I click on 'Events for you' button on the left sidebar
THEN I will be redirected to a page that lists all the events I may be interested in
WHEN I scroll down to the 'By Artists I Follow' subsection
THEN I will see all the events by artists I follow

Feature: View nearby events clearly on a map
As a: User
So that: I can visually and interactively see events that are nearby me
I want to see nearby events on an interactive map

GIVEN that I am on the home page
WHEN I scroll down to the bottom of the page
THEN Then there will be a map showing all the events that are held within 50km of my current location (by default)
WHEN I move around and readjust the map
THEN I will see all the events that are held within the parameters of the map

3. ***Requirement:*** Users cannot modify or update personal information after signing up
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   Feature: Edit user information on the profile page
   As a: User
   So that I can update information and reflect changes in my music interests
   I want to edit my personal and profile information

   GIVEN that I log in
   WHEN I put my cursor over <my name> on the top right hand corner
   AND I click on the ‘My account’ button
   THEN then I will be redirected to a page where I can edit my name, phone number and email address
   WHEN I change my name and click on the ‘Update Info’ button
   THEN my name will be updated

4. ***Requirement:*** There is no music player

   Feature: Play music on artist page
   As a: User
   So that: I can determine whether or not I will be interested in going to the artist’s event/concert
   I want to be able to listen to the artists’ music

   GIVEN that I am on an artist page
   WHEN I click on the “Preview Songs” button under the artist’s photo
   THEN the music from the artist’s playlist will start playing
   AND I will see the floating music player at the left bottom corner shows the track name and artist name
   WHEN I click the pause button on the music player
   THEN the music will stop playing

   Feature: Automatically play music throughout the website
   As a: User
   So that: I can have a more immersive experience when I’m on the website
   I want to be able to listen to music while navigating through the website

GIVEN that I am on the home page
THEN music will start to play automatically from a random playlist
WHEN I click on the 'Shows' button on the top bar and I am redirected to the 'Shows' page
THEN the music will continue to play
WHEN I click the pause button on the music player
THEN the music will stop playing

5. ***Requirement:*** Users cannot save events onto their personal calendars and be notified before the event

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   Feature: Save events on Google Calendar
   As a: User
   So that: I can integrate the events that I am attending into my personal calendar
   I want to save events on my personal calendar

   GIVEN that I am on the 'Calendar' page where I can see all the upcoming events on a calendar
   WHEN I click on an event
   AND click the 'Add to Google Calendar' button
   THEN I will be redirected to a page where I can save the event on Google calendar (Google Calendar API)

   Feature: Get notified before the event
   As a: User
   So that: I won't miss the event
   I want to automatically set an alarm of the event time

   GIVEN that I added an event to my personal calendar
   THEN I will be given the option to set an alarm (a desired amount of time) before an event
   WHEN I set the alarm 1 hour before the event
   THEN the alarm will ring 1 hour before the event

6. ***Requirement:*** Sold out events are not labeled 'sold out'

   Feature: Label sold-out events
   As a: User
   So that: I know if tickets for an event are still available
   I want to see events marked as 'SOLD-OUT' if the tickets are not available

   GIVEN that I am on an event page for an event that is sold out
   THEN I will see a 'SOLD-OUT' sticker/label next to the name of the event

   GIVEN that I am on the 'Shows' page
   WHEN I come across a sold-out event
   THEN I will see a 'SOLD-OUT' label on the thumbnail picture of the event

7. ***Requirement:*** Users cannot ask questions regarding any difficulties they've encountered while browsing the website

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Feature: Submit enquiry form
As a: User
So that: I can let them know my concerns and ask them for help
I want to submit an enquiry

GIVEN that I am on the “Contact Us” page
THEN I will see an enquiry form
WHEN I fill in the fields and click “Submit”
THEN my enquiry will be sent to the customer service team

Feature: Receive email notification
As a: User
So that: I know if my enquiry has been answered
I want to receive email notification when my enquiry has been responded to

GIVEN that I have submitted an enquiry form and I receive a response
THEN I will receive an email notification with a preview of the response
WHEN I click on “See full response”
THEN I will be redirected to a page where I can read my original enquiry and the full response.

Feature: View enquiry response
As a: User
So that: I know how to fix the problem, or ask additional questions for more help
I want to read the response to my enquiry

GIVEN that I am on my profile page
WHEN I click on “My Enquiries”
THEN I will see any open enquiries and a short preview of the latest reply
WHEN I click on an open enquiry
THEN I will see the full conversation regarding my enquiry (original enquiry, replies.. etc)

Feature: Mark enquiry as resolved
As a: User
So that: I can indicate whether my enquiry has been resolved or not
I want to mark my enquiries as resolved

GIVEN that I am on “My Enquiries” page
WHEN I click on an open requiry
THEN there will be a “Mark as resolved” button on the side
WHEN I click on the button
THEN it will remove the enquiry from the list of open enquiries

8. ***Requirement:*** Users cannot categorize the events based on whether they’re going or not.

Feature: Categorize an event as “I’m going”
As a: User
So that: I can clearly see which events I’m going to
I want to be able to add the events that I already have tickets into the user profile

GIVEN that I am on the “Event Information” page
WHEN I click on the button “I’m going”
THEN the “I’m going” button turns pink
AND the event will be added into “going” list in my profile

Feature: Buy tickets
As a: User
So that: I can go and enjoy the events
I want to be able to buy the event tickets

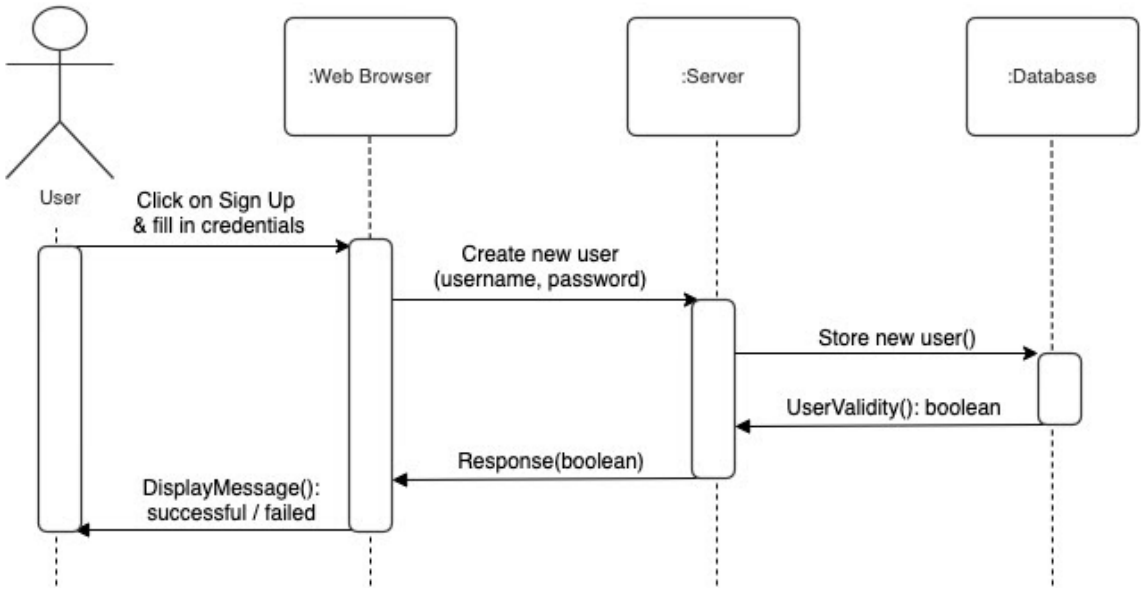
GIVEN that I am on the “Event Information” page
WHEN I click on the button “I’m interested”
THEN I will be directed to a ticket seller website
AND be able to buy tickets for this event
WHEN I have bought the ticket successfully
THEN I will be redirected back to “Event Information” page and the “I’m going” button turns pink
AND the event will be added into “going” list in my profile

Feature: Label an event as interested
As a: User
So that: I can build up a personal preference portfolio
I want to be able to save an event to my interest list

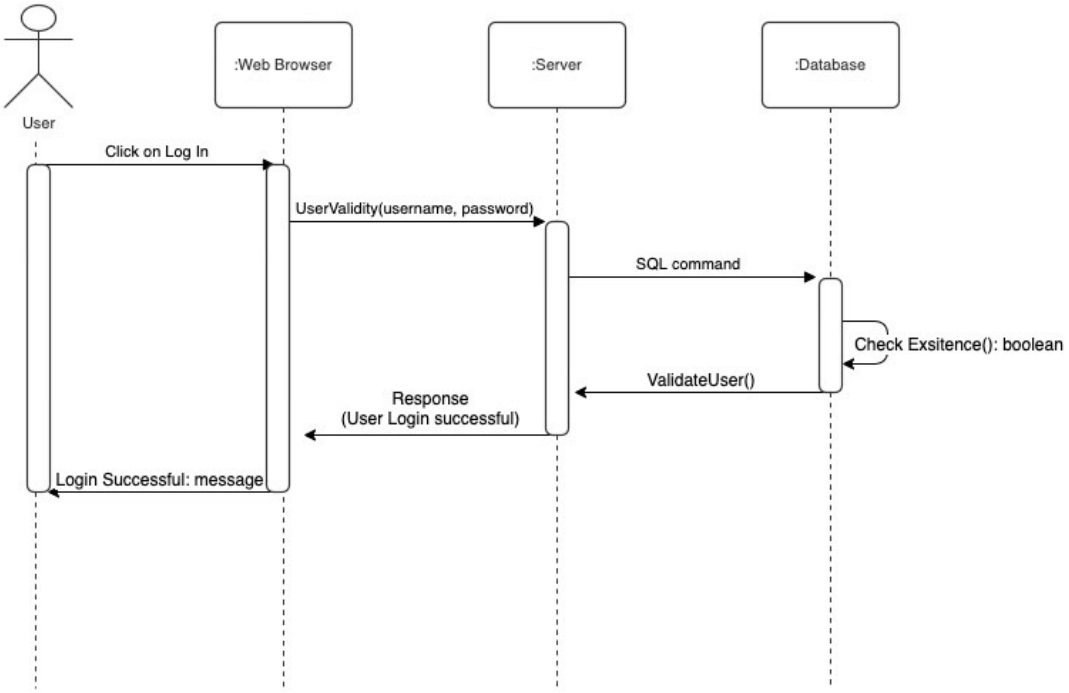
GIVEN that I am on the “Event Information” page
WHEN I click on the button “I’m interested”
THEN I will be directed to a ticket seller website
AND be able to buy tickets for this event
WHEN I didn’t but any tickets
AND closed the seller’s website
THEN I will be redirected back to “Event Information” page and the “I’m interested” button turns pink
AND the event will be added into the “interested” list in my profile

3.2 UML Sequence Diagram

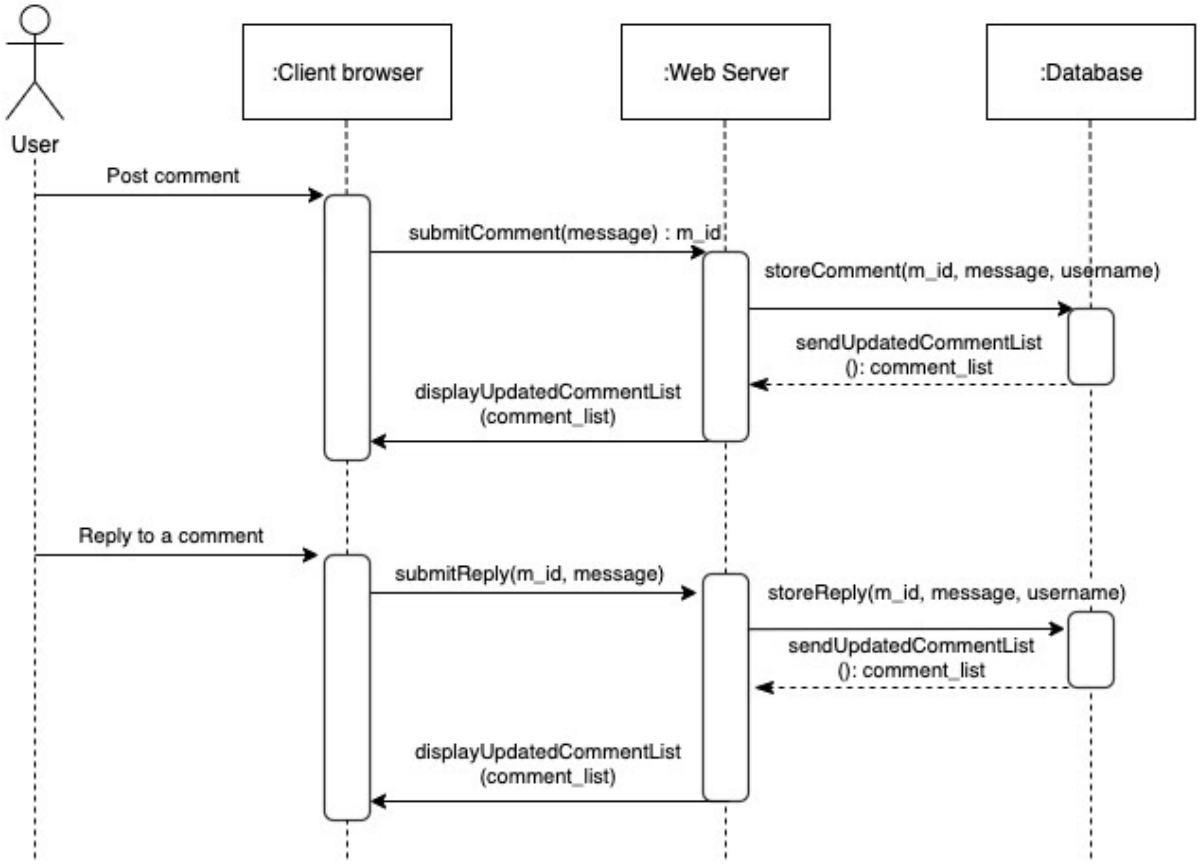
User Sign Up



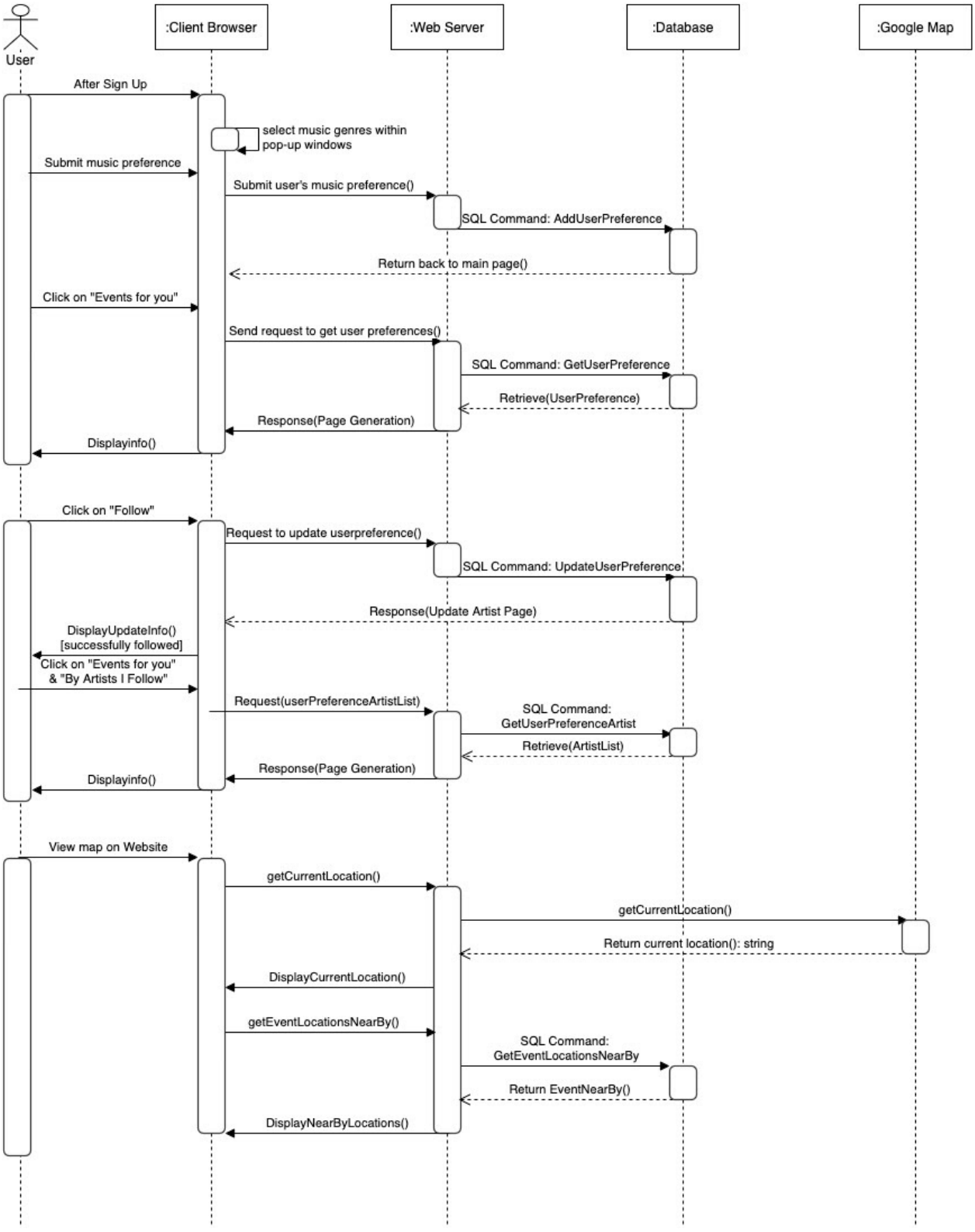
User Log In



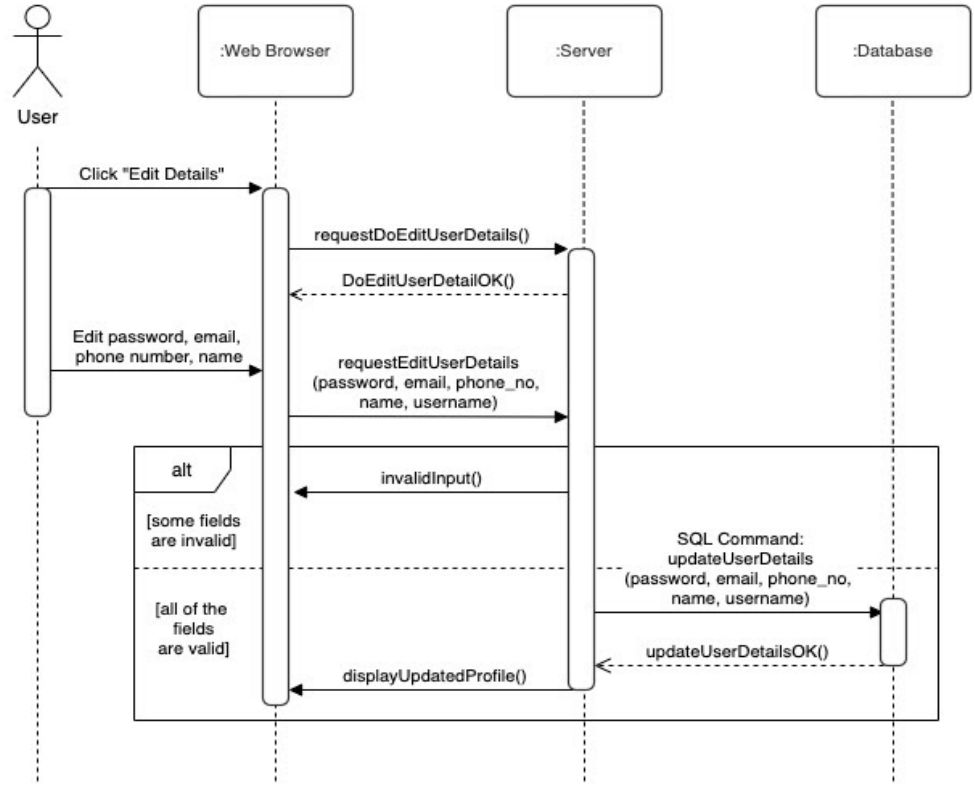
Comment Section



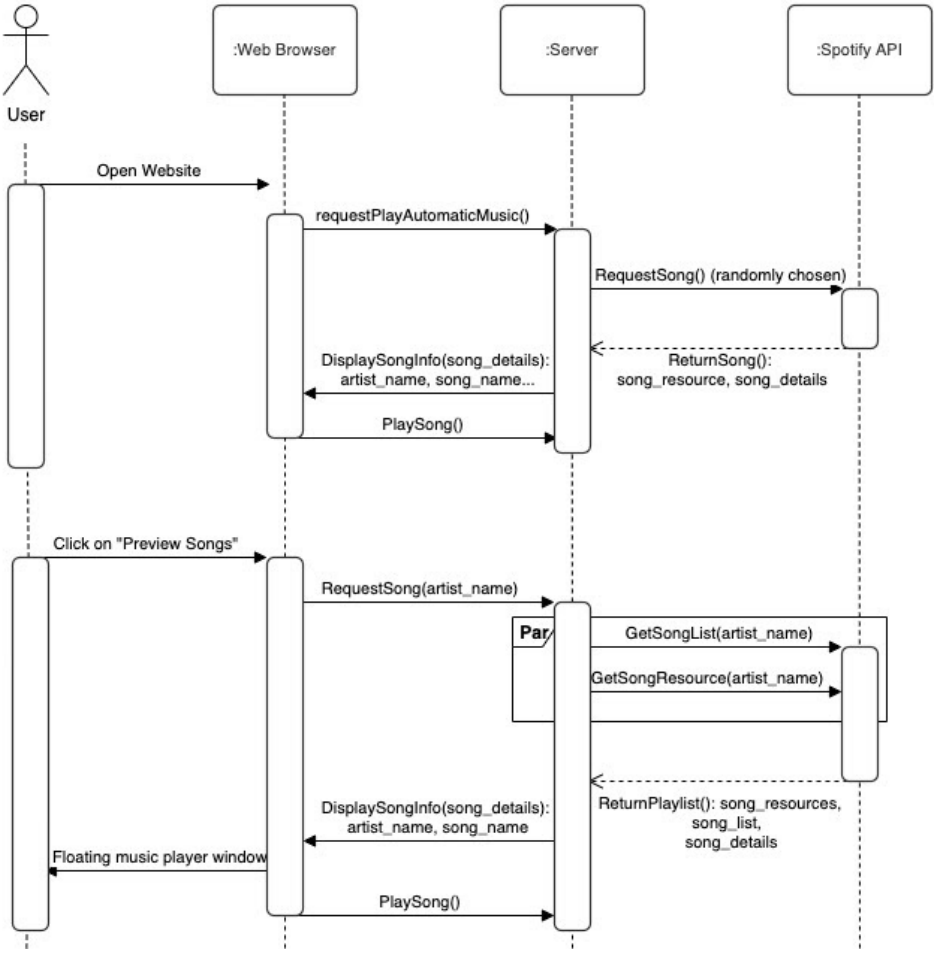
Event Recommendations



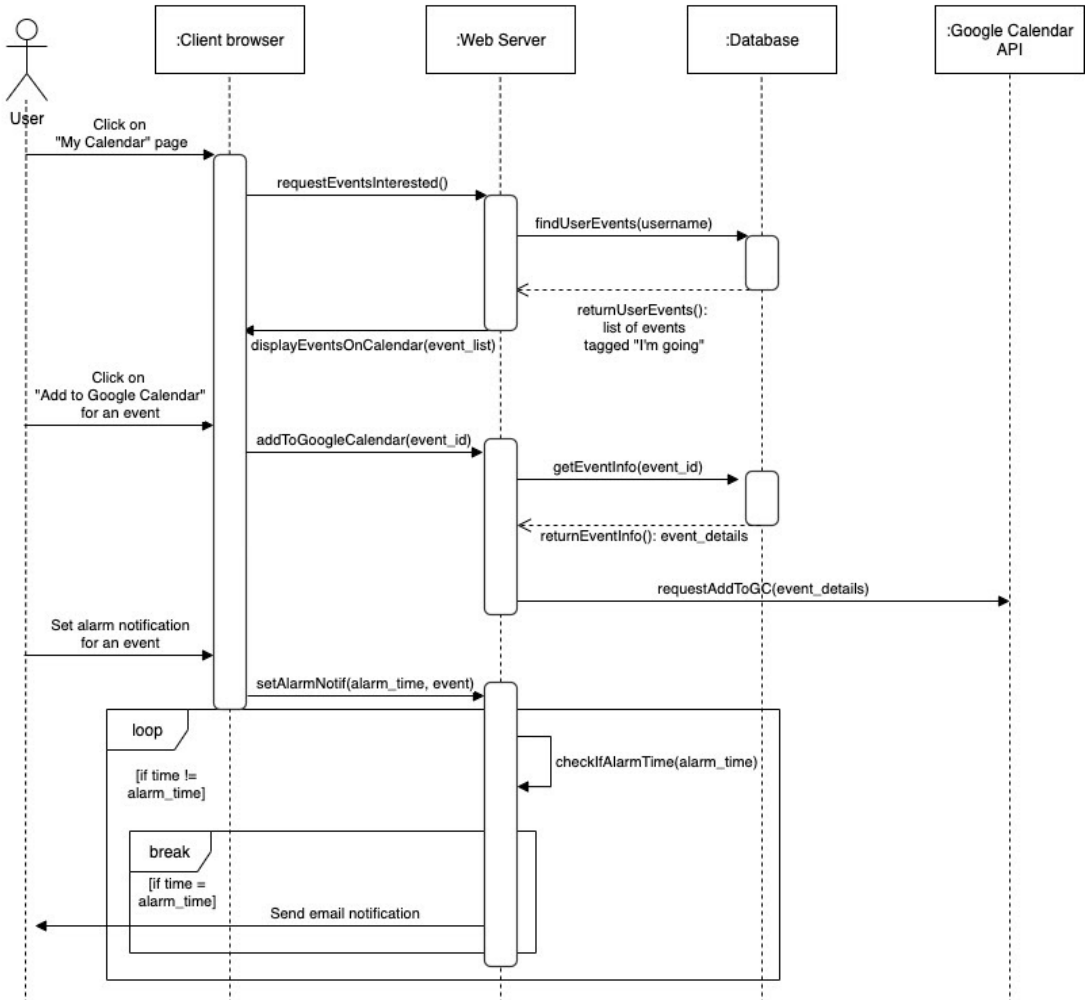
Update Personal Details



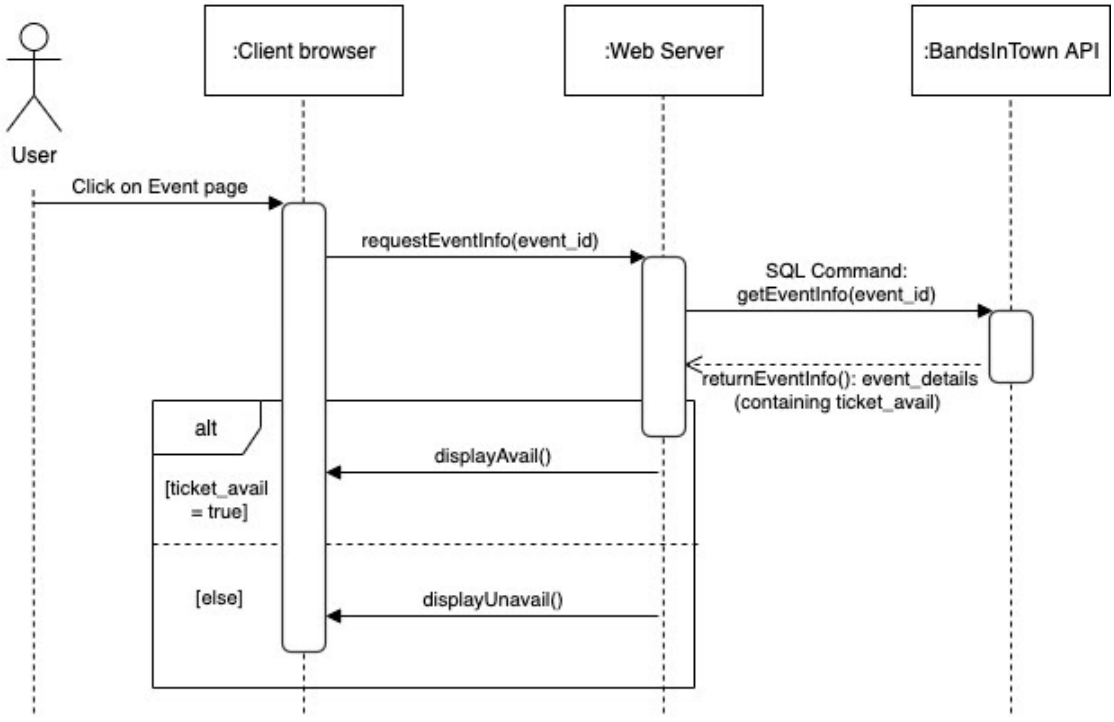
Music Player



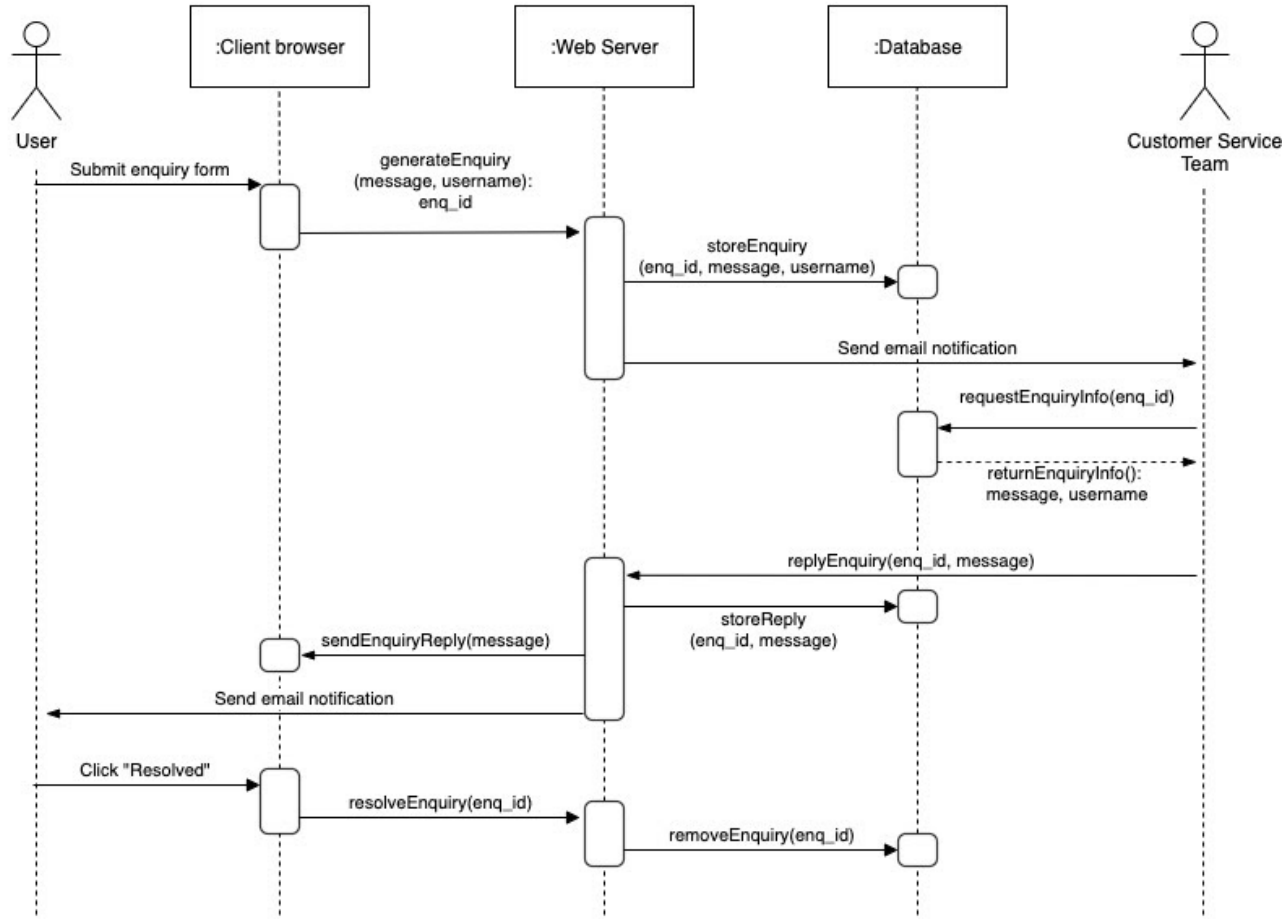
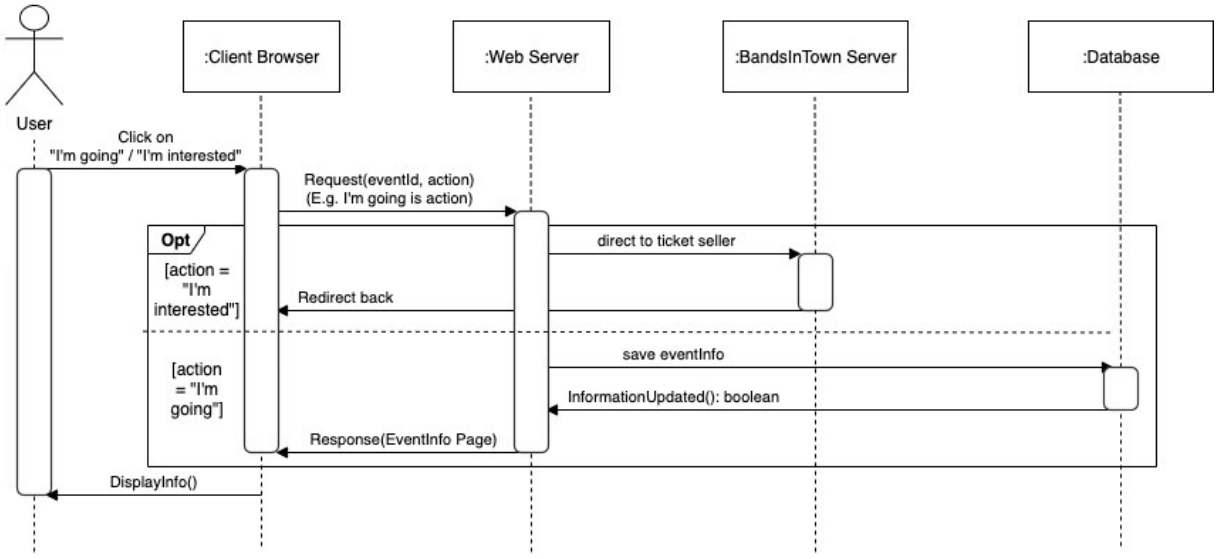
Calendar & Event Notification



Check Ticket Availability
- Display 'Sold Out' if Ticket is Unavailable



Customer Enquiry



Buy Event Tickets