Muireann Carroll
Aaron Clarke

CS335 Project

We decided to do our project on a ticket vendor for concerts and festivals. We did this because we were deeply saddened by the fact that most events were cancelled for the summer.

Our breakdown of our work is as follows:

User Stories were split 50/50 between the two of us.

Use case diagrams were 50/50 split.

Sequence were 50/50 split between the two of us.

Class diagram was 100% done by Aaron Clarke with Muireann Carroll as a helping hand.

Architecture diagram was 100% done by Aaron Clarke with Muireann as a helping hand.

UI was done 100% by Muireann Carroll with Aaron Clarke as a helping hand.

System Test was done 100% by Muireann Carroll with Aaron Clarke as a helping hand.

User Story 1

Title:

Ticket Prices

User Story:

As a user I want to be able to see the ticket prices.

Conversation:

When booking tickets, the prices for the tickets will be displayed clearly and obvious to the users.

Acceptance Criteria:

When the user is looking for a ticket, they will be able to see the prices for each set of tickets.

User Story 2

Title:

Muireann Carroll
Aaron Clarke

Displaying the best deals for tickets

User Story:

As a user I want to be able to see the best deals for concerts when I search for tickets.

Conversation:

Once the user has chosen the concert, they want to go to the best deals for the concert will be displayed first when paying for the tickets.

Acceptance Criteria:

When the user is looking at the tickets available the best deals for the tickets will be shown before the individual tickets.

User Story 3

Title:

Events that users' friends are going to.

User Story:

As a user I want to be able to see what events my friends are going to.

Conversation:

Once the user has purchased the tickets, they will get a link to the email address they have used to purchase the tickets. Inside this email there will be a link that will allow the user to share on different social media platforms.

Acceptance Criteria:

When the user purchases a ticket to an event or concert there should be an email automatically sent to the user's email address with a link inside it. This link will show that the user is going to the specified concert or event.

User Story 4

Title:

Profiles for users.

User Story:

As a user I want to be have a profile that stores my details such as billing information and then show or have a link to share that says that the user is going to Y’s concert.

Conversation:

Muireann Carroll
Aaron Clarke

Once clicking on the payment section, they will be prompted to make a profile on the website. This profile will ask for a username and password to protect their information. Once the profile is created, they can continue with paying for the tickets. Once they are finished paying for the tickets a box will come up which allows the user to tick it. If a user ticks the box this will allow the credit card details, they have used to be stored in the profile they made.

Acceptance Criteria:

Before the user is brought to the payment section, they will be prompted to make a profile on the website. Once the user finishes paying, they will be asked if they want to save the credit card details to their profile for future purchases.

User Story 5

Title:

Chatting to other people who share the same interest in an artist.

User Story:

As a user I want to be able to chat to other people who share the same interest in a certain artist or are going to the same concert/event as the user.

Conversation:

When looking to buy tickets for a certain artist there will be a forum at the end of the page where users will be able to communicate to other users about the artist.

Acceptance Criteria:

When the user clicks onto an artist's concert there will be a forum displayed under the tickers which the user can post a comment.

User Story 6

Title:

Upcoming events from a favourite artist.

User Story:

As a user I want to get notified when an artist I have seen before comes back to my region.

Conversation:

When booking a ticket to see an artist before clicking to proceed to payment there will be an option to click a box. This box will notify the user when the artist that they are booking tickets to see will come back and play again in their region.

Muireann Carroll
Aaron Clarke

Acceptance Criteria:

When the box is ticked this will notify the person of upcoming events.

User Story 7

Title:

When creating profile, the users can add their favourite artists.

User Story:

As a user I want to be able to pick my favourite artists when making my profile on the website.

Conversation:

When the user is making their profile, they will be given a choice to add their favourite artists to their profile. A suggested list of artists will come up to help the user pick their favourite artists.

Acceptance Criteria:

Once goes into the page to make their profile a list of artists will come up underneath all the details for the profile.

User Story 8

Title:

Notifications for users to see their local artists.

User Story:

As a user I want to be notified about local artists playing in my region.

Conversation:

When the user is creating their profile, they will be asked to put in their region. As well as this there will be a box underneath where they put their region in. If this box is ticked, then they will be notified of upcoming events that are happening in the specified region.

Acceptance Criteria:

When the user creates their profile, they will have the option to tick a box to add their region. This will allow them to receive notifications of local upcoming events.

User Story 9

Title:

Sorting concerts/events by my locality.

User Story:

Muireann Carroll
Aaron Clarke

As a user I want to be able to see the concerts that are playing in the venues closes to me.

Conversation:

When the user makes their profile they will have an option to add their location. Once the user opts into this option their location will be saved to their profile and only they can access their location. From this upcoming concerts will be filtered based on their location.

Acceptance Criteria:

When the user opts into adding their location it will notify the system to send all relevant notifications of concerts that are local to them.

User Story 10

Title:

Public transport routes based on the users locality.

User Story:

As a user I want to be able to see public transport routes which is based on my location that will get me to my desired venue.

Conversation:

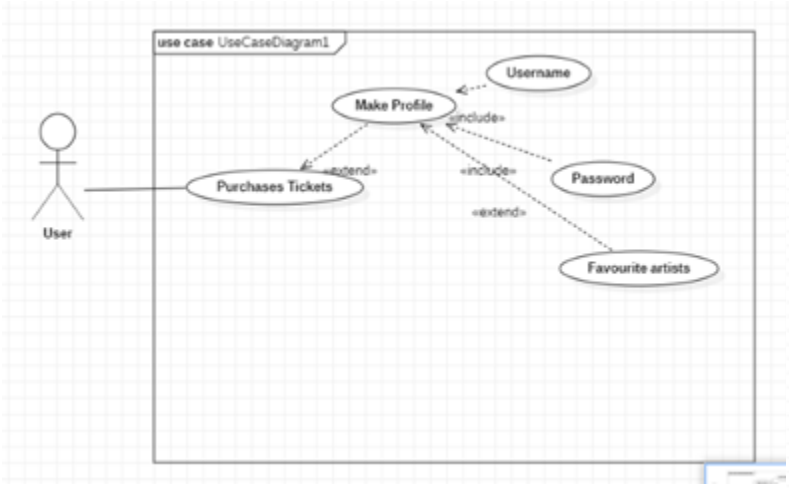
When users add their location to their profile they will be able to give them the best routes. The best routes will vary from the quickest way by train or by dart etc. It will display the time that it will take and where they need to get off in order to arrive at their venue.

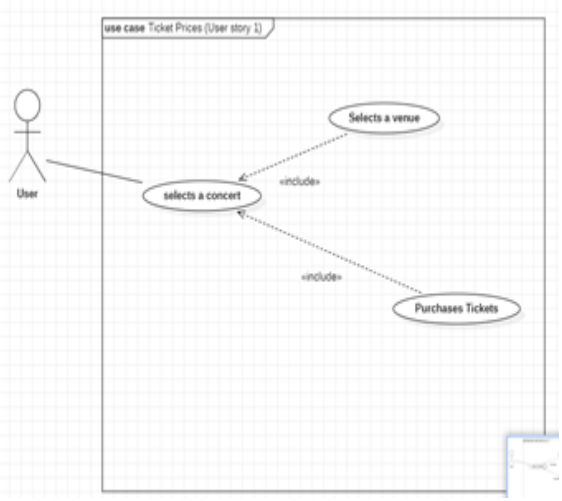
Acceptance Criteria:

Once the user pays for their tickets it will show the best route to get to their concert and how long it will take.

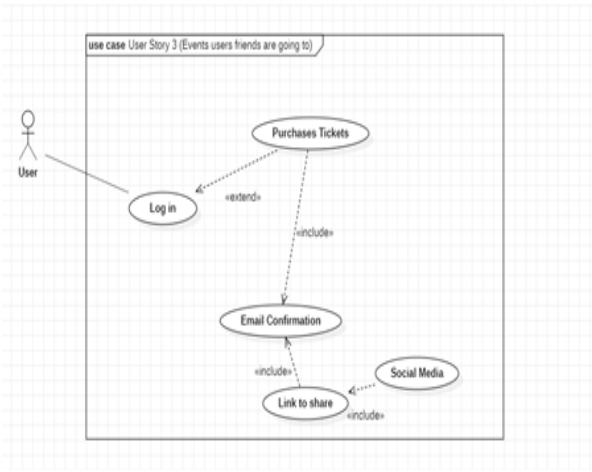
User Story 7- creating a profile

Muireann Carroll
Aaron Clarke



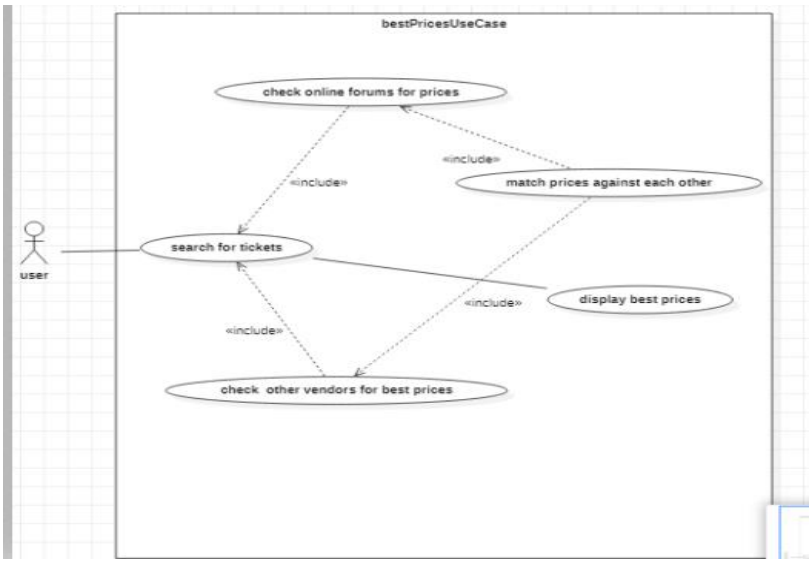


User Story 1 – Ticket Prices

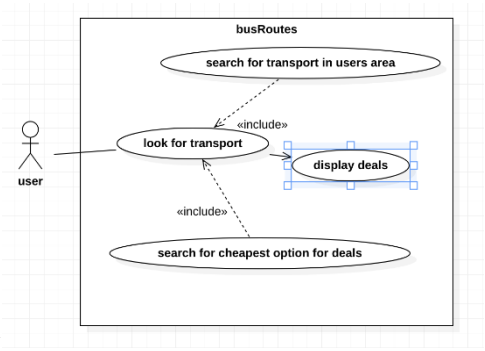


User Story User Story 3- Events that the users friends are going to →

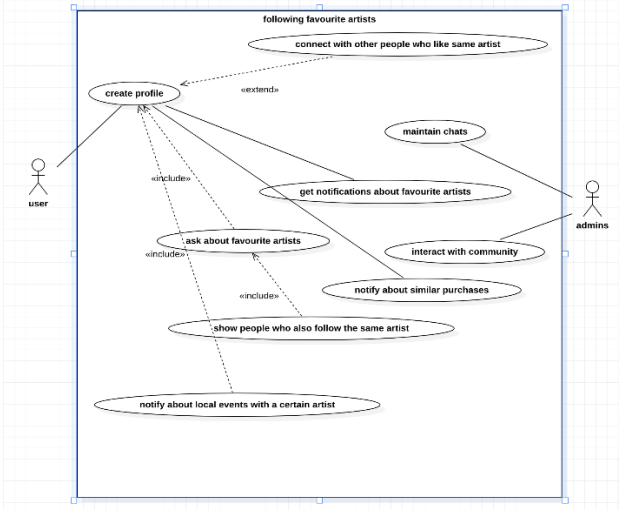
Muireann Carroll
Aaron Clarke



← A use case diagram for bestPrices



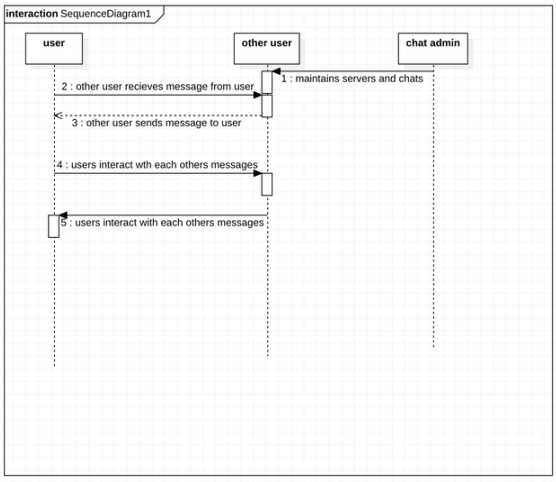
A use case diagram for busRoutes →

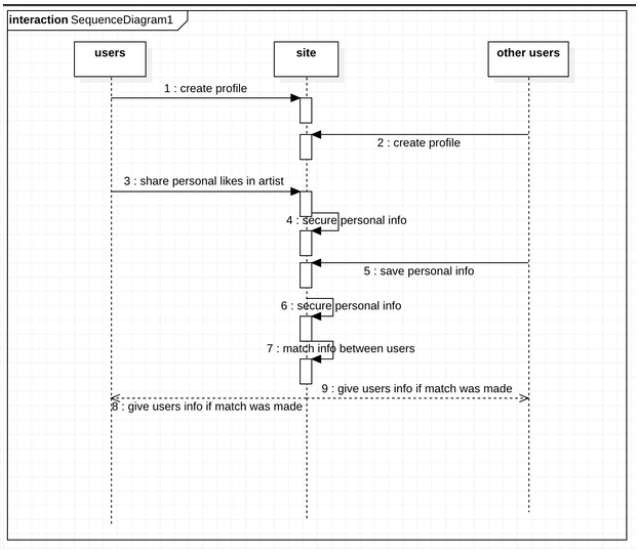


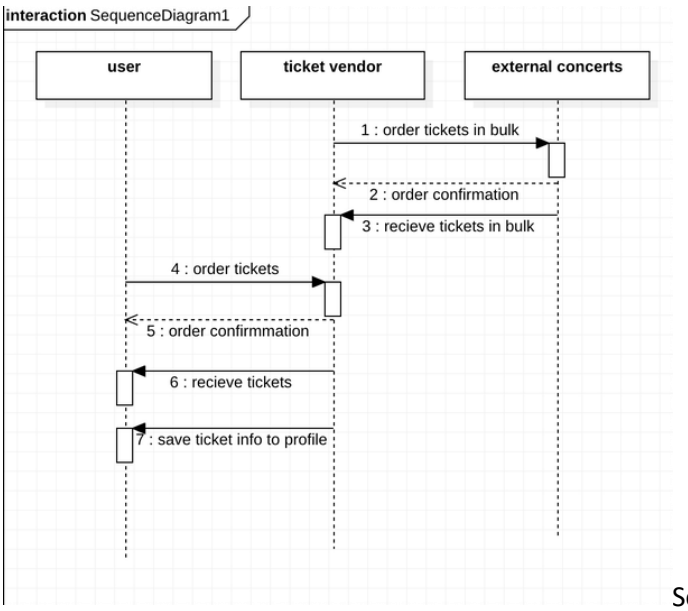
← A use case for users following their favourite artists

Muireann Carroll
Aaron Clarke

Sequence Diagrams



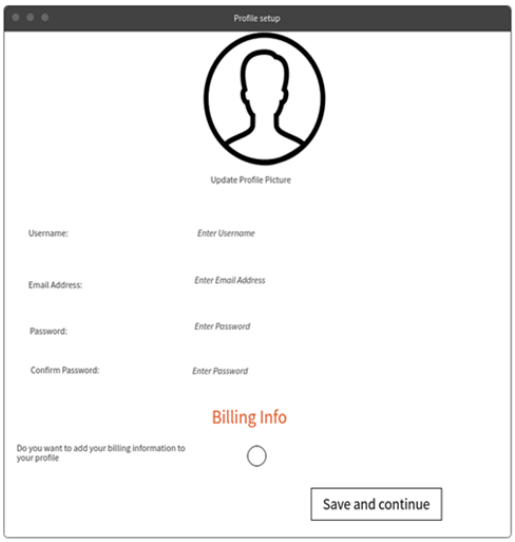


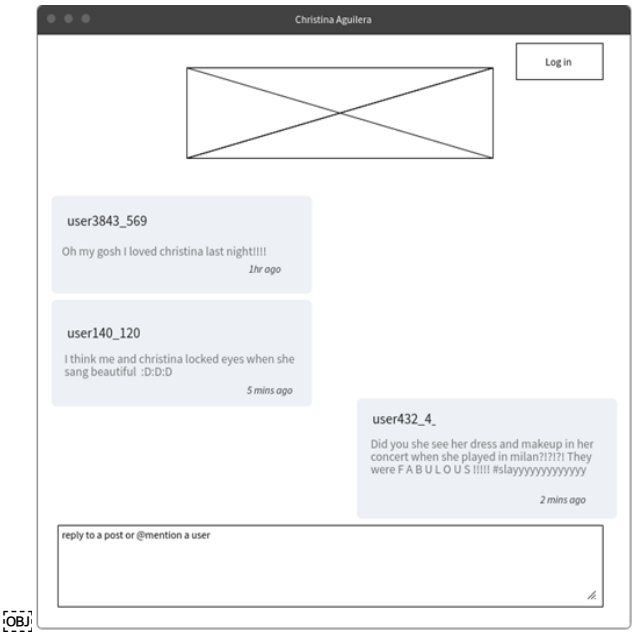


Sequence diagram 1 is the diagram for when a user messages a user. Sequence diagram 2 is about the creation of a profile and the storing of information. Sequence diagram 3 is about ordering tickets and selling them to the user.

Muireann Carroll
Aaron Clarke

User Interface Designs



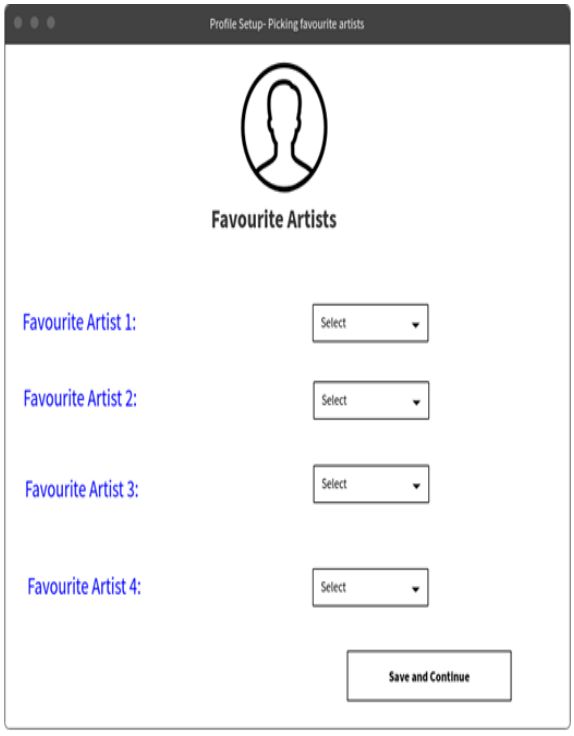


A mock up of what the ticket page would look like

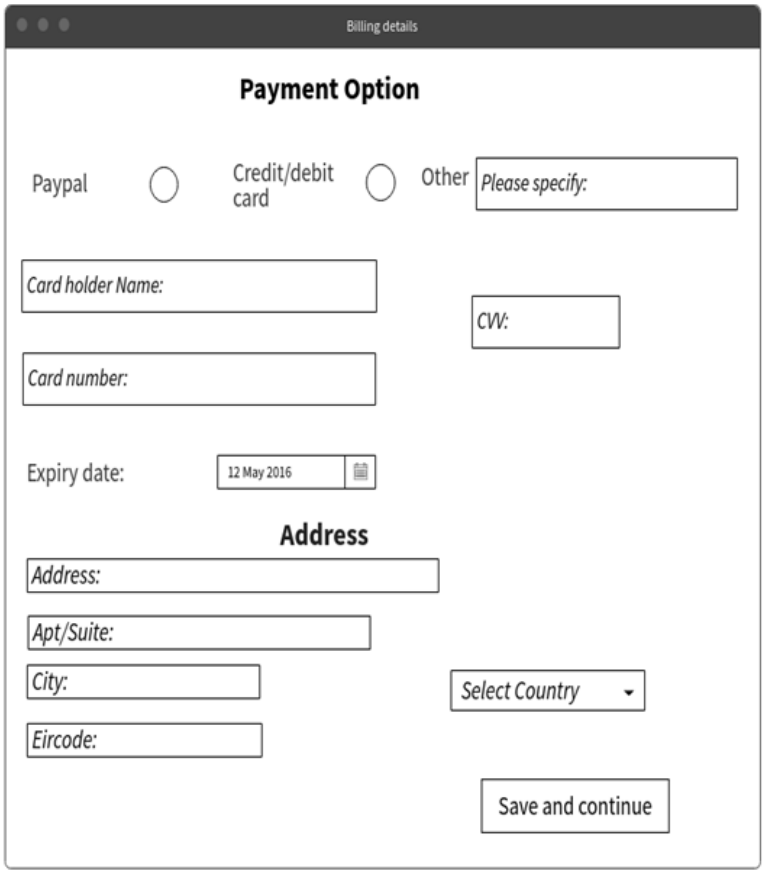
Muireann Carroll
Aaron Clarke

Mock up of what the user when paying for their tickets

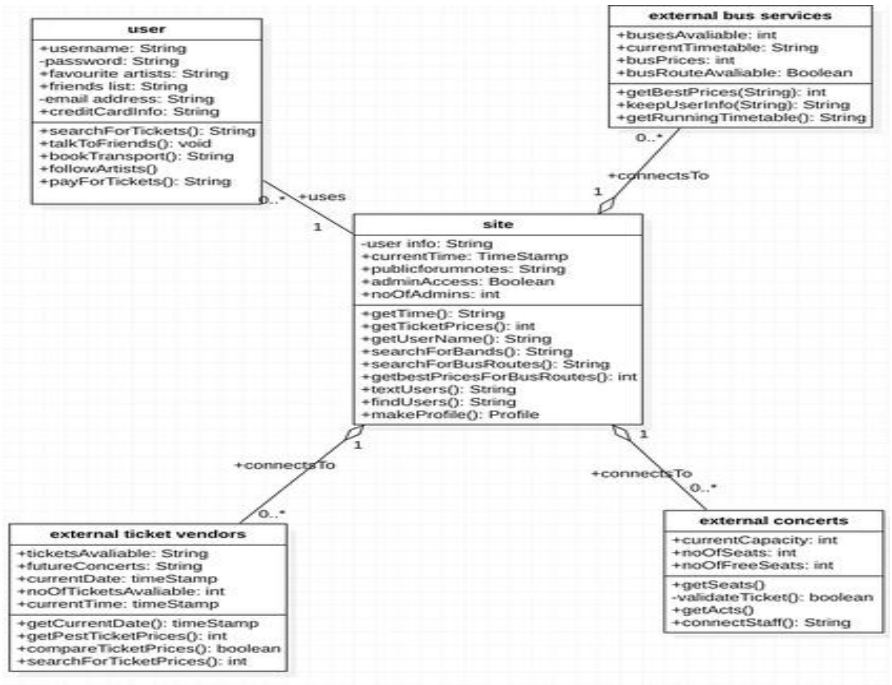
Mock up of the page where the users will pick their favourite artist:



Muireann Carroll
Aaron Clarke



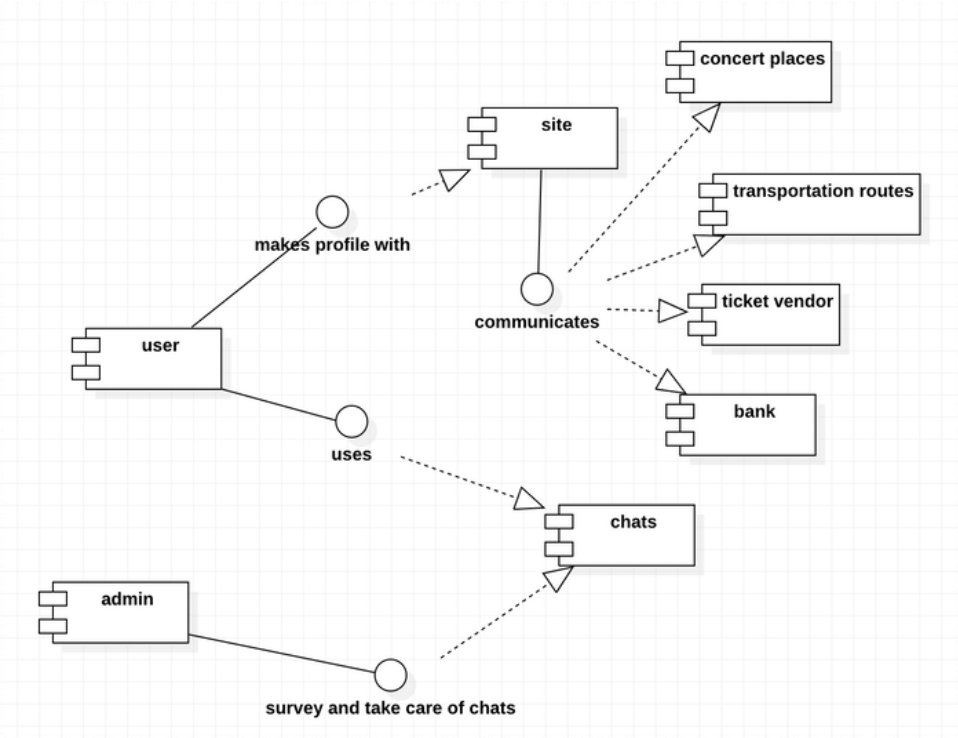
Muireann Carroll
Aaron Clarke



This is our class diagram as you can see there is quite a bit of attributes and functions. For each class/object each one allows the user to create/chat/book/connect.

We decided to make our classes implement various roles that communicate to different classes. They implement different functions such as get bestTicketPrices() which reacts with other classes.

Muireann Carroll
Aaron Clarke



This is our architecture diagram it shows our system as nodes and interfaces. This is how the system works and operates and how the different components interact with each other.

System Tests

Ergonomic Testing

In Ergonomic Testing we would test out different layouts of the website. This is important as the website must look inviting for users. We would test out neutral colours for our website as we don't want the website to look too strong. As well as this, we would make sure the fonts on the webpage are easy to read and it is easy to access the webpage to cater for all ages.

Performance Testing:

In Performance Testing we would check the three main elements of Performance Testing. These elements are speed, scalability and stability. In the speed aspect of the testing we will check to see how quick a user can purchase a ticket to a concert or an event. This is vital as users will mainly be using our website to buy tickets that have just gone on sale. In this case it is necessary to check the speed of website to make sure users can buy tickets as quick as possible. After this we would check the scalability aspect of the website. This is an important part of the website. It is important because when users are rushing against time to buy tickets, we want to make sure the system can handle the amount of people logging on and purchasing tickets. The last element we would test would be the stability of the website. It is vital that the website

does not crash under pressure or without pressure. It must be able to cope with any or little pressure.

Conformance Testing

When carrying out conformance testing, we would make sure that our website meets the defined set of standards set out by IEEE and W3C. As well as this we would make sure every aspect of the website in is line with the user stories and the guidelines which were set out during the planning stage of making the website.

Security Testing

When carrying out security testing we will make sure we follow the security testing principles. The security testing principles are confidentiality, integrity, authentication, authorization, availability and non-repudiation. In order to test how secure, the payment side of the website we will run several tests. We will do this to make sure the bank details the user puts into their profile is safe and confidential. In order to make them safe we will prompt them to have a password which meets the requirements of a safe password. The requirements of a safe password is eight characters long with a least one uppercase and a mixture of symbols and numbers. We would also ensure that when using a credit card that the bank is notified of the money coming out.