PROJECT LOG AND IDEAS:

**22/03/23: (14:18 PM )** Currently working on choosing the idea to work with for the database since I can’t work with anything relating to soccer.   
Initial Ideas:  
1. Online Shopping System  
2. Travel Booking system  
3. Game Shop  
  
Decided to with Travel Booking system, seems like something I haven’t done for any other module and would like to work on something new.  
  
**22/03/23: (14:55 PM )** Want to setup the entities for the **TRAVEL BOOKING SYSTEM** and the fields they will entail.  
For a travel booking system, these are the entities I will work on implementing

1. User: This entity will contain information about users who use the system for booking travel services. Fields can include an **integer ID**, a **string field for the username**, and **string fields for the user's name, email address, and phone number.**
2. Trip: This entity will contain information about the trips available for booking. Fields can include an **integer ID**, a **string field for the trip name**, a **string field for the trip description**, a **floating field for the trip cost,** and an **integer field for the maximum number of people** allowed on the trip.
3. Booking: This entity will contain information about the bookings made by users. Fields can include **an integer ID**, an **integer field for the user ID**, an integer **field for the trip ID**, a **string field for the booking status** (such as "pending", "confirmed", or "cancelled"), and a **floating field for the booking cost**.
4. Payment: This entity will contain information about the payments made by users for their bookings. Fields can include an **integer ID**, an **integer field for the booking ID**, a **string field for the payment method,** and a **floating field for the payment amount**.
5. Location: This entity will contain information about the locations that users can travel to. Fields can include **an integer ID**, a **string field for the location name**, a **string field for the location description**, and a **floating field for the location cost**.
6. Review: This entity will contain information about the reviews submitted by users for the trips they have taken. Fields can **include an integer ID**, an **integer field for the user ID**, an **integer field for the trip ID**, a **string field for the review text**, and an **integer field for the review rating.**

**22/03/23: (15:05 PM )** Database Modelling initial setup might be a bit complex so possible adjustments can be made in the future  
  
In this database model, each entity is represented by a table with its corresponding fields. The relationships between the entities are indicated by the connecting lines.

The **User** table has a one-to-many relationship with the **Booking** table, as a user can make multiple bookings. The **Booking** table also has a one-to-many relationship with the **Payment** table, as a booking can have multiple payments associated with it.

The **Trip** table has a many-to-many relationship with the **Location** table, as a trip can have multiple locations and a location can be part of multiple trips. This relationship is represented by the **TripLocation** junction table, which contains foreign keys to both the **Trip** and **Location** tables.

The **Review** table has a one-to-many relationship with both the **User** and **Trip** tables, as a **user** can submit multiple **reviews** for different **trips** and a trip can have multiple reviews submitted by different users.