# **Sequence Diagrams:**

**What are sequence diagrams?**

Sequence diagrams are a type of UML (unified modelling language) diagram that visually represent how components of a system interact with each other, for example users, system and a database. They show the sequence of exchanges and processes between each component. These diagrams are very easy to read as they are in a simple format that is guided by arrows representing the flow of processes.

**What do they do?**

Sequence diagrams model the flow of logic in your system visually, this enables you to validate your logic in your system by having a clear and easily readable layout. They are similar to flowcharts however instead of representing the processes and how they work it represents the logic behind those processes.

**Example:**

Here is an example of a sequence diagram used for a log-in system:

User 
System 
Database 
-User opens application- 
-User inputs information 
System checks the database for 
correct password 
< allow access to the application 
if data from user correct 

As you can see it begins with the user opening the application and accessing the system where the user then inputs their information (like Password and Username), the system will then check their database to see if the information is correct then if the info is correct the user will be allowed access to the application.