**Non-functional requirements:**

**\*\*These are better kept in this format**

The system must be robust and maintainable.

The system must be well documented, to allow another team to continue working on it if necessary.

The system must be easy to use for all users.

The system must be scalable.

The system must display the AUT logo on the interface at all times where possible.

**Infrastructure requirements**

As a client, I want the system to be set up in less than 3 hours so that It can be setup before the competition.

As a client, I want the network to be accessible to users through most mobile devices so that more users can make use of the application.

As a client, I want the network to handle over 500 users without decreasing performance so that no user gets frustrated trying to use the application.

**Application**

As a client, I want the application to handle requests from at least 500 users at one time without reducing performance so that a real-time sensation is preserved.

As a client, I want the application to be accessible to users through most mobile devices so that more users can make use of the application. **(compare to Infrastructure requirements)**

As a client, the application must be released on GPL or another open-source license so that it can be further expanded by future groups.

As a client, I want the application to provide secure connection to privilege users so their information is secure.

**Backend:**

As a client, I want the backend to be set up in less than 3 hours so that It can be setup before the competition. **(compare to Infrastructure requirements)**

As a client, I want the backend operational system to run on Linux so that no proprietary licence is needed.

As a client, I want the database to support concurrency so that real time feature can be achieved.

**Database**

Unable to create all database user stories without overlapping with the other domains. The database diagrams provide the tables needed to build the application. The database should be created as features are developed.

As a client, I want that the database store:

* a list of teams in the competition.
* the answers for each team.
* the score for each team
* the number of passes for each team.
* timestamps for correctly answered questions.
* login credentials for privileged users

As a client, I want a team of a competition to be assigned to one marker only.

As client, I want to store the start time of each competition so we can run a countdown.

**Admin User Stories:**

As an admin, I want to log in so that I can access my account.

As an admin, I want to be able to log out so that no one else can access the account when I am not using it.

As an admin, I want to create a competition so that teams can be added to it.

As an admin, I want to add teams to the system so that I can setup the competition.

As an admin, I want to the option to delete/remove a team so I can modify the competition.

As an admin, I want to be able to start a competition so that the teams can begin competing.

As an admin, I want to be able to delete a competition so that it can be removed if it is not going to be used any longer.

**Marker User Stories:**

As a marker, I want to enter login credentials to login so that access to my account is secured.

As a marker, I want to be able to log out so that no one else can access the account when I am not using it.

As a marker, I want to be able to select the team to mark when I login to my account so I can choose between the teams assigned to me.

* As a marker, I want to be able to select teams from a drop-box menu so that I don’t have to type
* As a marker, I want to be able to select teams using a search bar so that I can quickly type and find the team I want to mar.

As a marker, I want to be able to **deselect** any team that I have chosen to mark so that other markers can select that team to mark.

As a marker, I want to be able to interchange between my selected teams to mark so that I can efficiently mark each team without delays.

As a marker, I want that only myself can mark a specific team so that there is no confusion.

As a marker, I want to enter a correctly answered question for a team so that score is updated correctly.

As a marker, I want to undo my previous action so that I can reverse my erroneous inputs.

As a marker, I want to be able to pass a question to a team so that a team can answer the next question.

And:

* the total number of passes for that team is updated.

As a marker, I want to be request to confirm any of my actions so that I don’t make mistakes.

As a marker, I want to receive feedback from the application for all my interactions so that I know it has been successful.

**Spectator User Stories:**

As a spectator, I want to be able to see the scoreboard in a graphical format so that the scores are easier to interpret.

As a spectator, I want to be able to see the scoreboard in the form of a table so that I can view the scoreboard information in a simple format.

As a spectator, I want to be able to switch the scoreboard view so that I can personalise the page to my needs.

As a spectator, I want to constantly update the scoreboard so that the system functions in real time.

As a spectator, I want to select a particular team from a drop-down list so that I can view their stats specifically.

As a spectator, I want to be able to search for a team so I can find and focus on that particular team.

As a spectator, I want to see advanced statistics for the top and selected teams in the competition so that I can track their progress closely.

As a spectator, I want to sort the scoreboard numerically so that I can compare the progress of different teams in the competition.

As a spectator, I want to sort the scoreboard alphabetically so that I can find particular teams in the competition.

As a spectator, I want the scoreboard to be sorted numerically by default.

**Login User Stories**

As a user, I want to be able to select between being a spectator or a privileged user so that I can use either of their features.

As a privileged user, I want to be able to log in with a user name and password so that I can securely access my account.

As a user, I want to be redirect to my user type properly so that I don’t have to navigate to it manually.