Requirements

The requirements report we took on was very similar to the one we had made for our previous project. However, we decided as a group that there were changes we had to make in order to improve its quality as well as to make it fit the new requirements we have been given.

The first thing we changed was the formatting of the previous teams requirements table. The other team never mentioned using a formatting style, and the table didn't seem to follow one either. From previous research, we decided that refactoring the previous teams table to follow the IEEE Standard Requirements Engineering document [1] would give us the best result. This document suggests creating generalised and brief user requirements, which are then referred to by more detailed functional and non-functional requirements. Our decision to change the requirements table in this table in this manner was driven by research into requirements documentation. IEEE's [1] methodology allows for easy to read and understand formatting. Additionally, it suggests grouping requirements together which helps when delegating tasks amongst team members.

After deciding to follow the IEEE Standard Requirements Engineering document [1], we refactored the requirements table around it. This meant removing, replacing and adding to the existing table. Examples of this include the refactoring of the UR_DISH_SERVE, UR_WIN and many more user requirements into functional requirements. Under the new formatting style, many of the previous teams requirements were too specific to be user requirements. This was fixed by making them functional requirements and introducing newer and broader user requirements that they could link to.

In addition to formatting changes, we also added to the requirements table in order to include additions that covered the new design requirements. New user requirements such as UR_SAVE and UR_MODE were added to broadly cover the new save feature and difficulty feature that was requested by the customer. These requirements were further elaborated by new functional requirements, such as FR_POWER_UPS, FR_REPUTATION_POINTS, FR_EARN_MONEY and FR_SPEND_MONEY. We added to the table with requirements like these in order to cover all the parts of the customer's brief, including the new additions added for the second half of the project.

Once we had changed and added to the table, we added to the explanation report made by the other team in order to explain the new formatting. The other team's report was largely unchanged in its idea, but was rewritten to include full sentences as well as proper paragraph formatting. Additionally, it was modified to include new paragraphs to do with explaining the re-formatted requirements table, as well as talking about our second client interview. These changes were done in order to make the requirements deliverable appear more professional and to explain our contributions to the previous team's project.

Bibliography

[1] ISO/IEC/IEEE 29148-2018 International Standard - Systems and software engineering – Life cycle processes – Requirements Engineering, IEEE Standards Association, 2018.