Project Proposal

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| Student Name | Jack Morgan |
| Student Number | 2201053 |
| Project Title | Survey4All (TBD) |

Project Description:

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| Our project will be a Survey based app in which we will allow users to create an account on the website using the registration and login service that we will build. They will also be able to create personalised surveys and fill in surveys posted by users on the website. We will display the data collected from the surveys to the survey creator in a google forms type way . We also plan to present users questions when they sign up in which they will be able to select topics which will allow them to be recommended personalised surveys. When users create surveys they will be required to select a topic for the survey. Users can either add tags, a bit like meta tags on a webpage, or select a topic from a drop down list. Each survey will be given a survey ID which users can use to search up specific surveys or the creator of the surveys can get certain people to fill out the survey by sharing the survey ID with them.  A lot of the data for this survey app will be held in a database of held on the university’s server, will can be created and achieved using phpMyAdmin. This data can be created on the app and then saved to the webpage, which will include the details for a user’s login, the survey they have created or the answers to any surveys they have personally answered. This data will also be able to be retrieved, as we plan on having a feature to display this data collected into a more easily readable format.  Some of the data we collect, or the way users use the survey app will need to have some rules and constraints first of all. This is something that will need to be thought about by the Database Analyst. We have ideas to have it so only certain users can have access to some of the surveys, such as age restricted surveys, or surveys that can only be accessed by a member of a certain organisation, maybe a limit to the amount of surveys a user can create, or have access to at a time.  Programming Languages that will be required to create this application/website are:   * HTML * PHP * Unity Mobile/Android Studio * SQL * Python   Time Management:  (This is a work in progress, will discuss further in the next meeting where will create a Gant chart for managing the time that we have)  **Research and Preparation Phase:**  If we are unsure on how to do some of the tasks for the project we may want to put aside some time to research and trial stuff at the start.  **Registration and Sign In System: (2 Weeks)**  Regular meet ups to see where we are at with creating the project so that we know what to focus on until the next meeting.  **Testing Phase:**  At the end of the project we will need time to test and provide feedback to each other, not just on the website but the project as a whole. Perhaps maybe a week or so on the testing and providing feedback and another week on implementing that feedback. |

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| Project In Scope? | Y/N |
| Group Assigned? | Y/N |

(An **in scope** project has approximately 80-100 hours of work for a group of 6-8 junior engineers and can be completed within around 10 weeks )

What resources will you need to complete this project:

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| Human resources – 7 members of our team, their time, technical knowledge and commitment.  IT hardware – we will be using our personal computers, laptops, mobile phones and tablets, additionally we may use computers, which are available to us at university.  IT software – we will be using Discord as our main communication channel. We will also use Basecamp as team management and collaboration tool. GitHub will be used as a way to share our coding files and collaborate on them. Google drive and One drive will serve us to share documents, images and other files with each other. We will highly likely need to access our University's server in order to host our website on it, which can be accessed using an application like FileZilla where we can then upload any files. Development tools are an important resource, we will select those, which will help to implement our ideas. Programs such as Notepad ++ to allow us to write html code and create the project itself.  Each one of us may have personal choice of software and IT tools, which will help one deliver to the group. As our roles are different and we have to look at the project from different angles we may have common collaborative tools which we will share with the group and personal choice tools on top of that. As we are at the beginning stages of our project we predict that we are not aware yet of all resources needed to complete our tasks. As the project develops and grows we will most likely advance and upgrade or perhaps simplify the resources used. |

What additional learning is required in order to complete this project:

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| * Learn how to use GitHub for sharing files between team members and edit online at the same time simultaneously. * Have a look at examples of other applications that are Survey based to review how they have created theirs to compare it against our own ideas to avoid copying and learn how to do it properly and conventionally. * Learn how to store login data and survey data to a data base and how to organise the information gathered through the site. * Encryption to keep login data secure. * Some of us will have to teach other users how to use applications that other members have already used to ensure everyone is prepared in case they need to cover. For example, teaching users how to use file hosting/sharing programs. * Communication between our group is essential to succeed in creating out project to a high standard. * Learn how to properly develop a website and/or mobile app if some members are not familiar with them. * We need to learn team work skills so we know how to work with each other efficiently in order to get the best project. * Learn about risk management this is not only for the project manager but for everyone involved we need to find possible problems that could occur and find solutions for them in case they do come up in our project we will be able to solve them with ease * Learn about different python libraries that are available for quickly and efficiently summarizing data into different charts. |