**A2 Spec: Project Ideas**

**…..** well as a plan for an IT project to eventually begin development work on (Assignment 3 - Artifacts).

…. explore your creative side by putting forward a group project idea expanding or combining project ideas from Assignment 1 (or perhaps an entirely new one) which can be bolstered by your research into your chosen IT Technologies.

You all have some project ideas that you reported in Assignment 1. You are to come up with a project idea for the group as a whole, which could be an individual’s idea, but is more likely to be a combination of each of the ideas you had individually (maybe an entirely new IT Project Idea proposal), together with comments and feedback from your Assignment 1 marker, instructor, and anyone else who you would like to consult.

You may also wish to consider what problems need to be solved…..

There is no set length for this section, but it is difficult to see how a description of less than 1500 words would be adequate. Do not limit yourself to this if you have more than this to write, though - but it should be in a well written and concise format.

Expand the Overview, Motivation, Description, Tools + Tech, Skills, Outcome items from Assignment 1. Adapt it using the feedback received and the developments/suggestions from your group members. Put weight behind innovative components and ensure the project is feasible [no sci-fi / pie-in-the-sky] to make steps beyond a simple proposal/plan. Perhaps look towards identifying niche/markets/needs, and the more detailed mechanics of the project.

Note: There are to be significant tangible artifacts towards the project completion that are delivered by the submission of ASSIGNMENT 3, so keep this in mind when brainstorming your IT Project Idea for Assignment 2 – Feasibility is a key factor.

**A1 Spec: Project Idea**

*You need not have full answers to any of these questions, but you are required to have some ideas about an IT project that you think will address at least one of these questions. It may not be possible to find one that answers all three, but it is quite likely that something you would find interesting or useful will have a similar effect on others.*

**Note: There are to be significant tangible artifacts (**non-theoretical, real world things i.e. bundles of hardware infrastructure, software applications, informational content, and supporting resources**) towards the project completion that are delivered by the submission of ASSIGNMENT 3(***Thinking of* implementing deliverables even at this stage is strongly encouraged. **), so keep this in mind when brainstorming your IT Project Idea – Feasibility is a key factor (**So examples for a mobile app are showing the steps from say sketches, wireframes, design mockups, to interactive designs, maybe even some code/demo/etc. - Examples of digital artefacts include digital documents, presentations, programmes and codes, video and audio files, images and photographs and the like) **The app and all its components are artefacts**

\*\*\*### You have provided an in depth elaboration of the specific technical requirements of how you would plan to implement the idea justified with appropriate reference material.

• *Develop a smartphone app, using whatever programming language in which you have expertise, or by using tools such as MIT App Inventor..*

\*\*\*\* Use Android studio to write the app in java or Kotlin

<https://developer.android.com/courses/>

and Youtube tutorials

There isn’t a set expectation of complexity to the project you select and explore, and it doesn’t necessarily have to be something commercially viable, but, perhaps aiming for such could help you settle certain questions or help form your own (and tutors/graders) perspectives towards it.

**1 Overview (min 100 words) -** This should be a summary of what the project will be. Clearly describe what the project will do in a coherent and easy to interpret manner.

**2 Motivation (min 100) words) -** This should be a description of why the project will be interesting or useful. *What are you passionate about?* This may include statistics or other **evidence**, such as: "There

service. are 1.5 billion cat owners in Australia, and so there is a huge market for an automated cat feeder. Using Raspberry Pi technology is a cheap and easily assembled solution to this problem."

**3 Description (min 500 words) -** Detailed description of the **features** of the product or service

*What kind of IT innovation would you like to see?*

**4 Tools and Technologies (min 100) words) -** Describe the software, hardware and/or other equipment needed. Include any relevant open source tools\*\*\*\*\*.

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**5 Skills Required (min 100 words) -** List the skills are required for your project, including software that needs to be written, and special hardware (if any) **Describe artifacts**.& tutorails#### How feasible will it be to find the skills, software and hardware required? *What project will help you develop the skills, experience and knowledge required to make you qualified for your ideal job?*

**6 Outcome (min 100 words) -** If the project is successful, what will be the outcome? How will the original problem be solved? What impact will this development have? and any potential drawbacks or obstacles you anticipate.

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| **Project Ideas**  **15 Marks**  *(Note: The quality and feedback provided on this section will heavily influence your ability to deliver outcomes in subsequent assignments)* | **15-12 Marks**  You have given a clear description of your project idea. You have discussed the details of it in elaborate detail.  Not only covering the base elements from A1 and expanding heavily to describe what the group is planning to implement and deliver in A3. | **12-9 Marks**  You have given a description of your project idea. You have discussed the details of implementation to a notable extent.  There is good understanding and context highlighted for the project idea proposed developing on the A1 base. | **9-7.5 Marks**  Your description of your project idea hits key details that have expanded from A1. The extent to which you could discuss this could be described in further depth.  More research is recommended to elucidate how you would deliver your project idea. | **7.5-0 Marks**  Your project idea needs some significant further work. There is not nearly enough detail here to get a clear picture of what you plan to do.  There needs to be more **innovation** and thought regarding the **feasibility** too towards the completion of such a project. |

A1 Rubric Top Marks notes:

You have clearly described what your project will do in a coherent and easy to interpret manner. Your description includes all of the 6 relevant aspects to an excellent standard, each of which being well described within the approximate word length limits. You have provided an in depth elaboration of the specific technical requirements of how you would plan to implement the idea justified with appropriate reference material.