Our IT Project

**Assignment 2 Doc:** [**https://docs.google.com/document/d/1I3rOkZcCWFCuxoLN3OpV\_arUbfIHf-xPmMh\_GsAQc9U/edit?usp=sharing**](https://docs.google.com/document/d/1I3rOkZcCWFCuxoLN3OpV_arUbfIHf-xPmMh_GsAQc9U/edit?usp=sharing)

**Assignment 2 GitHub:**

[**https://github.com/DharalPatel/RAD-DJ**](https://github.com/DharalPatel/RAD-DJ)

**Github:**

[**https://github.com/DharalPatel/IT-Project**](https://github.com/DharalPatel/IT-Project)

**Team Profile**

**Team Name:** RAD-DJ

**Personal Information:**

**Danny Pham:**

My background is Vietnamese but i was born here in Australia. I graduated from Keysborough Secondary College, and is currently doing a course in Information Technology at RMIT. My hobbies are playing video games, playing badminton if i have the chance, watching TV shows like The Flash and Agents of Shield. I also like to take photos and building computers. Fortnite squad up. My IT Interest is in Networks and Cloud Computing.

My experiences in IT has been doing Computing in Year 11 and doing work experiences in Year 10 at a computer repair shop.

**Jaidyn Jong:**

I was born and raised in Melbourne, Australia, with my background being half maltese and timorese. I completed my year 12 studies at Copperfield College, where I graduated in 2016. Currently, I am studying a bachelor’s degree in business, majoring in economics and finance and am in my second year of the course. In my downtime, I enjoy spending time playing sports and catching up with friends, working on cars, as well as playing video games and watching YouTube videos. In relation to IT, I am interested in programming, analysing databases, networking and cloud computing, where I have been taught the basics of these skills in my year 11 and 12 studies where I took IT related subjects.

**Ryan Harris:**

My background is that i’m half irish and half Australian, but i was born in Sydney, Australia, and have lived in melbourne for as long as i can remember.. I graduated from Brighton secondary college in 2017. I am currently in my first semester of studying IT at RMIT. I’d say that my hobbies would be playing video games (both PC and ps4) as well as watching tv, and by tv i mean netflix, stan and youtube. IT wise, i’d say i’m pretty interested in programming and creating programs using this, and i have had very little experience with IT in my junior years.

**Dharal Patel:**

I was born in India then migrated to Australia at the age of 14 where I completed my VCE in Maribyrnong college 2017. Currently, I am studying Bachelor of Information Technology at RMIT. My hobbies include playing Cricket and video games and I spent most of my time watching Youtube and Netflix. My career ambition is to become the very best programmer thus I code and program in my spare time. This passion of mine started back in high school when I was taught basic coding in my IT classes.

Link to website: <https://s3-ap-southeast-2.amazonaws.com/s3719882/index.html>

**Group processes:**

Our group worked very well in Assignment 2, as the assignment was done on time and to a high standard, so not much will be changed in this assignment, except for adding in a more cohesive timeline for the report in order to complete Assignment 3 on time, as it is more complex than the previous one. We also want to make sure that in assignment 3 everyone commits to Github and also pulls request as we didn’t had any pull any requests in assignment 2. And we also want to improve our communication as we lacked a bit in communication in assignment 2.

**Career plan:**

The ideal jobs for each group member are relatively similar in terms of being IT related, with the exception of one of the jobs being the Economic Regulator. Some of the common elements and general skill sets that each of the ideal jobs require are communication and problem solving skills which are the main elements which sets the jobs alike. As for what differentiates each position from one another, three out of the four IT related jobs (Support Analyst, Software Engineer and Systems Admin) obviously require a degree of knowledge in IT specific areas such as JavaScript and SQL, whereas non-IT pathways like the Economic Regulator would not demand skills in these areas. In terms of what sets the IT related jobs apart, a support analyst should also have troubleshooting skills as a key skill in addition to the basic IT requirements, similarly to the software developer. A system admin on the other hand must also be detail oriented and have a structured way of thinking much like the software developer. After having received feedback from our previous assignments, we are all likely to still pursue our ideal jobs, knowing that at present, they are likely to still be in great demand.

**Tools:**

Team Website:<https://dharalpatel.github.io/IT-Project/>

Team Github: <https://github.com/DharalPatel/IT-Project>

**Project**

**Topic (Min 2 paragraphs)**

Our Assignment 3’s group IT project will be an application in conjunction with a device that has the functionality to monitor your dog’s main attributes. The main components that the device will encompass is a GPS tracker, a step counter and a thermometer that attaches to the collar of the dog, the device will the have the ability to communicate with the app on your mobile device.

The application will allow the user to monitor the amount of physical activity the dog has completed, notify the user when the dog needs to be walked based off of the GPS tracker, allow the user to check off if the dog has been fed or not, and the ability to observe the ambient temperature around the dog to see if the dog is at any risk of overheating.

**Motivation (Min 1 paragraph)**

The motivation for this project was based off of Ryan’s personal needs, as well as the needs of many dog owners; as it can sometimes be hard to keep track of your dogs health, especially when there are multiple members of the household. The project is important as it can help owners more closely monitor their dogs health and ensure their well-being by taking action when necessary. To a future employer, working on this project would show our group members ability to create and plan an app/ IT project, as well as show them that the group member are able to work on a project that they necessarily don’t have stakes in, or aren’t as interested in as Ryan, which is an important quality for potential employers to look out for.

**Landscape (Min 1 paragraph)**

Here are some similar apps:

* Dog walk by Tractive (highest “competitor”)
* Map My Dog Walk
* Dog Walk Tracker & reminder by Halcien labs
* Dog Log by apps for good UK
* Hungry dog tracker & reminder by Halcien labs
* Pet diary by Behrang Javaherian

However, most of these apps are solely focused on dog walking or dog feeding, and not both at the same time, unlike our proposed app. The most polished and highest rated app was the Dog walk by tractive, it had a sleek and stylish design with many functions similar to what we would like to implement. A main point of difference our app would have to other one’s available, would be the tracking of walks and eating schedules in the same easy to use app, as well as the linking of multiple owners/ devices to one dog or multiple dogs, which would be essential for a family trying to use our app. It can be expected that this app can be created to be able to stand out from the rest.

**Detailed Description (one paragraph for aim and one for each goal)**

**Aims**

Our aim is to provide an application which will enable you to track your dog’s food and walk schedule. We aim to provide our users with an application which will allow the user to keep track of their dog’s health and wellbeing, whilst taking the complexity out of an everyday pet owner’s life in tracking these daily tasks. The app will be able to inform them about this information and will also remind them to feed their pet if they haven’t been fed. The app will allow to track dog’s walk by using GPS which will be fitted in the dogs collar. The GPS will be connected to their mobile devices and will allow them to start their dog’s walk at a particular time or location. Alongside this feature, it will also display the recommended duration of the walk based on the pet’s characteristics such as its breed, weight and age. For example, a German Shepherd may require a longer exercise period than a chihuahua.

**Goals**

In order to achieve our aim, we must develop

**Plans and progress (Recommended 3-4 pages)**

**Roles**

**Developer:** Danny, Ryan, Dharal, Jaidyn

**Designer:** Ryan

**Tester:** Danny, Ryan, Dharal, Jaidyn

**Scope and limits (Min 1 paragraph)**

**Tools and technologies**

* **Arduino UNO**
* **Arduino Software**
* **Wires**
* **LM35 Temperature Sensor**

**Testing (Min 1 paragraph)**

**Time frame (Presented in a table)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Ryan** | **Danny** | **Dharal** | **Jaidyn** |
| **Week 1** |  |  |  |  |
| **Week 2** |  |  |  |  |
| **Week 3** |  |  |  |  |
| **Week 4** |  |  |  |  |
| **Week 5** |  |  |  |  |
| **Week 6** |  |  |  |  |
| **Week 7 (est)** |  |  |  |  |
| **Week 8 (est)** |  |  |  |  |
| **Week 9 (est)** |  |  |  |  |
| **Week 10 (est)** |  |  |  |  |
| **Week 11 (est)** |  |  |  |  |
| **Week 12 (est)** |  |  |  |  |
| **Week 13 (est)** |  |  |  |  |
| **Week 14 (est)** |  |  |  |  |
| **Week 15 (est)** |  |  |  |  |
| **Week 16 (est)** |  |  |  |  |

**Risks**

**Group processes and communications (Min 1 paragraph)**

**Skills and Jobs**

**References:**