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| **Individual Weekly Reports**  **for**  **Lance Gray** |
| **Week 2 (21-07-2019 to 27-07-2019)**  Prepared a document containing 22 detailed questions for Prof. Steve Trewick and Prof. Amjed Tahir in readiness for our first introductory meeting associated with Project Turitea Web Resources. These questions were targeted in an attempt to understand the background and scope of the project. There were also a series of technical questions to understand any preferences in programming software and hardware.  Actively participated (via Microsoft Skype) in a 1.5-hour introductory meeting with Professors Steve Trewick and Amjed Tahir on Wednesday 17, 2019 at 11 am, and my fellow team members. Many of my questions were answered during this session without asking them, however I did take an opportunity to raise some that were not answered at the end of Prof. Steve Trewick's discussion. I also took this opportunity to raise concerns with Prof. Amjed Tahir about the small size of our team, and the fact that the project scope was somewhat vague. He assured us that he believed the project scope could be narrowed with a strong focus on producing a web application that demonstrates the following key aspects: (a) graphical mapping of the Turitea Stream (with dynamic interaction and introspection); (b) importation of comma-separated-data (or similar) describing the ecology of the stream and graphically presenting that data; and, (c) providing commentary feedback for users of the website. The web application is to be clean and well presented, applicable to a wide audience of users, be editable (to some extent) by the project Sponsor, and may eventually be used as a model for a wider exploration of the world's ecology.  Consequently, our Team Leader provided us with useful hyperlinks to mapping and data presentation APIs (<https://cesiumjs.org> and <https://plot.ly/javascript/>) for our consideration. Having reviewed these independently, we will now discuss their suitability in our next meeting (scheduled for Sunday 28 July, 2019 at 1 pm). |
| **Week 3 (28-07-2019 to 03-08-2019)**  First formal meeting with the team on Sunday 28 July, 2019 at 1 pm. This was a constructive meeting where we learned more about each other and our strengths. From this meeting we decided to use GitHub for our repository, and to use the KanBan contained within it to regulate our activities. During this meeting one of our team members expressed that he was familiar with the Golang programming language produced by Google, and suggested that we consider it for our backend server programming. I was not aware of this language and so I subsequently installed the software, and used it to create a basic web server as described in <https://hackernoon.com/how-to-create-a-web-server-in-go-a064277287c9>. It was very easy to get the program running. That said, what I created was a very simple page. I worry though that my lack of knowledge with this programming language will add delays, and so my preference was to stay with Servlets and JSP using Java (albeit that they may be more complex to construct).  Meeting (via Microsoft Skype) with Amjed Tahir on Wednesday 31 July, 2019 at 3 pm. At this meeting we discussed an approach to solving the project (and narrowed the scope of works), and sought approval from Amjed on some of the third-party APIs that we were considering. This meeting was followed up at 8 pm with the team members to discuss Amjed's comments more in detail. It was also a good opportunity for us to discuss a lot of ideas and our first Sprint. At this point I put my hand up for the front-end development. This meant that the backend could be developed in Golang by Chen Xingyu, who is experienced with using this language.  Developed a series of preliminary Wire-Frames for consideration. These were created using Wireframesketcher which is a wireframing tool that helps designers, developers and product managers quickly create wireframes, mockups and prototypes for desktop, web and mobile applications. More work is required, but it is hoped that it can be used as a tool for Prof. Steve Trewick to use when reviewing the webpages. |
| **Week 4 (04-08-2019 to 10-08-2019)**  Investigating different WYSIWYG APIs to help with developing editable blogs for the webpages. The APIs looked at were CKEditor**,** TinyMCE and Wiki.js. These are still being looked at, and it is hoped that a decision on one of them can be made within the next few days.  Meeting (via Microsoft Skype) with Amjed Tahir on Wednesday 7 August, 2019 at 3 pm. During this meeting guidance was sought on whether or not our progress was considered acceptable. Amjed indicated that we were on-track. Amjed also gave recommendations on the content required for the week 4 report. Amjed also suggested that we might want to look at the Wiki.js API as an alternative to more conventional WYSIWYG APIs. This meeting was followed up at 8 pm with the team members to discuss Amjed's comments more in detail. During that meeting we decided who would be responsible for the different parts of the week 4 report.  Researched, and designed a project Risk Management Matrix for this particular project. Risks were then identified, assessed, and controls conceived to manage the identified risks. Considerable effort was also put in to finalise the week 4 report. It is unclear yet if that effort was too much, or not enough. |
| **Week 5 (11-08-2019 to 17-08-2019)**  Spent considerable time exploring Wiki.js. Wiki.js is quite easy to use and relatively powerful, so much so that it might be seen as taking a shortcut. Also, there was some pretty basic functionality (such as creating hyperlinks) that hadn't yet been implemented which may make it difficult for the sponsor to use. You can still use HTML, but that would be presumably be beyond the capabilities of the sponsor. It is a known solution and so rather than spending a lot more time on it, it was decided to leave its selection for now, and work on the other HTML screens. Meeting (via Microsoft Skype) with the team on Wednesday 14 August, 2019 at 8pm. At this meeting we discussed Wiki.js, and decided that we would get Amjed's opinion on just how much functionality would should use it for. His feedback was essentially that we should not overuse it.  Significant hours were spent constructing HTML code over the weekend. Considerable work is still required, but we have at least started. |
| **Week 6 (18-08-2019 to 24-08-2019)**  Continuation of developing the front-end HTML, CSS and JavaScript code. The following is complete:   1. Main toolbars; 2. Main logos and banner pictures; 3. About Us page; 4. Useful Links page; 5. Login modal form; 6. Contact us modal form; and, 7. Search modal form. |
| **Week 7 (25-08-2019 to 31-08-2019)** |