**Project Initiation Document – IP3 – 2018-19**

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| --- | --- |
| **Group Number** | **25** |
| **Names** | |
| **Basharat Afzal** | |
| **Mark Cottrell** | |
| **Zarko Ivanov** | |
| **Merin Haslacher** | |
| **Martin Abadzhiev** | |

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# Introduction

Why you are undertaking the project. The project concept.

The project’s purpose is to create a website that allows users to view different geological data including an earthquake map and a weather page each with several different functions using digital maps to visualise the data as well as a set of tutorial pages set to help website viewers understand the different types of data fundamentals and techniques that were used to create the earthquake map and the weather page.

# Roles

|  |  |
| --- | --- |
| Name | Role |
| Basharat Afzal | Developer |
| Merin Haslacher | Developer |
| Mark Cottrell | Project Manager |
| Zarko Ivanov | Developer |
| Martin Abadzhiev | Developer |

# Approaches and Methodologies

## Methodology

Incremental Agile Development Methodology. This was chosen as it allows us to work quickly and more efficiently and allows us to respond to emerging requirements. An Agile development technique allows us to quickly create prototypes which is very useful in website design as after designing the web pages on wireframes it helps to be able to visualise and see the page come to life, this then helps to evaluate the page both in terms of design and functionality and then allows for a better prototype to be made afterword’s.

## Team Communications and Document Sharing.

We will use a combination of Facebook Messenger and in person meetings to discuss tasks and check progress. Facebook Messenger is widely accessible and was already a method of communication for most of the group members which is why we chose it. The group meets every week and therefor in person meetings are not only practical but easy to set up. In terms of file sharing the group will use One Drive in order to share any documents or loose files and to keep them in one place as well as GitHub which will enable the group to have good version control of the website during its development and testing.

## Project management

We will use Trello to manage our project by setting tasks that are to be completed this helps us to follow what has been done and what needs to be done and allows us to check individual user progress and see what tasks everyone has done and it also helps to see if anyone is struggling in the team so that the group can help them out.

# Design and Development Tools and Technologies

In order to design our project we will use paper sketches, balsamiq and adobe Photoshop.  
We will use the paper sketches to give a general visualisation of the basic design as it is easy to change designs quickly and paper sketches are easy to make and share via photos, balsamiq is used to create wireframes from these initial designs, Photoshop will then be used later to add colour and finalise the designs. Paper sketches aren’t hard and time consuming they are something that everyone in the group has done and are confident in, balsamiq was suggested to the group as a wireframing tool but some members of the group have used it previously and are quite confident with it, only certain members of our group have access to Adobe Photoshop however it will be used to edit designs and help the group visualise different colour palettes.

# Project Proposed Milestones

Functional / non-functional requirements list

Design phase

Development phase

Testing phase

# Deliverables

Reference the appropriate appendix.

# Project Risks and Mitigations

Risks are uncertain events or conditions that can influence a project most risks are negative to the project and can cause the project to derail or in some cases can cause a project to shut down. Mitigations are plans that are put into effect in order to eliminate or in some cases minimise the effect of a risk on the project.

Table of Risks and Mitigations

|  |  |
| --- | --- |
| **Risk** | **Mitigation** |
| Inaccurate estimation of time  requirements | Make sure the project meets up with deliverable schedule |
| Teammate misses too many  meetings | Attempt to reason with teammate and notify PETE if teammate is not cooperative. |
| Misunderstood requirements | Consult specification with the group. |
| Inaccurate Scope | Reassess requirements to match desired scope |
| Emerging/Changing  requirements | Evaluate impact on scope and time before proceeding. |
| Poor communication | Discuss current communication methods and see if there could be any improvements to be made. |
| Loss of data | Back-up data on cloud. |
| Unforeseen change of team  structure | Distribute remaining tasks among remaining teammates |
| Lack of quality | Adopt basic quality control principles. |
| Lack of accessibility | Ensure website meets WCAG standards |

**Figure 1 Risks and Mitigations.**

# Appendix 1 - Deliverables

Template/examples for Deliverables and Acceptance Tests

|  |  |  |
| --- | --- | --- |
| **Work Area: Weather Visualisation** | | |
| **Feature** | **Acceptance Criteria** | **Delivered** |
| Weather visualisation | The system must include a page that show weather profile for a location in the following format: Overall weather picture: icon Barometric pressure: numeric Etc… | Yes / No / Partial (if partial implementation - please provide list of what works and what does not work) |
| View weather by place name | The user must be able to enter the name of a place and then view the weather profile for that location. |  |
| View weather by place name | The user must be able to enter the name of a place and then view the weather profile for that location. |  |
| Etc… |  |  |
|  |  |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Work Area: Navigation** | | |
| **Feature** | **Acceptance Criteria** | **Delivered** |
| Menu system 1 | There must be a sidebar menu that includes … |  |
| Menu system 2 | There must be a menu at the page-top that … |  |
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# Appendix 2 – Milestones

|  |  |  |  |
| --- | --- | --- | --- |
| Task Name / Description | Team member name(s) | Start Date | Completion Date |
|  |  |  |  |
|  |  |  |  |