3815ICT – Software Engineering

Minesweeper

Milestone 1 – Feasibility Report

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Based on analysis of the functional and non-functional requirements, constraints and project risk factors, a general feasibility report has been developed to illustrate the overall feasibility of the development of the Mine Sweeper project. The Project Risk Analysis has defined a successful project as one which is:

- Delivered within approved timeframe
- Completely functional
- Presented with Adequate Documentation

The starting date for the project is **July 15 2019**
The deadline for the project is **October 4 2019**
The timeframe is approximately **12 weeks.**
There will be one developer working part-time on the project until completion.

It is important to outline the requirements for a successful project to determine the feasibility of that project. Functional requirements outlined in document A give a clear example of the functional prototype. Documentation for this milestone is indicative of the timeframe in which future iterations will be run. Based on the technical requirements necessary to provide complete functionality, it is reasonable to determine that a single developer will be able to produce a completely functional application within a 12-week period. This is inclusive of

- Functional Requirements
- Non-functional Requirements
- GUI development and themes
- Documentation & modelling
- Testing & Deployment

Furthermore, Feasibility of this project is further demonstrated in the fact that there is no budget constraint. Many software development projects run on a stringent budget which partly dictates the projects' timeframe. With no cash payable, the only constraint on the developer will be time and 12 weeks is an adequate consignment. The development environment will be freely available as will all resources necessary to complete the project.

In determining the feasibility of the Minesweeper project, the goals of the project are

weighed against the constraints against it. With the most pressing constraint being time, the project is more than feasible in its current state. The project can be completed successfully and the requirements can be met within the constraints of timeframe, functionality and documentation.