

FUNCTIONAL REQUIREMENTS AND PROJECT PLAN

TERRIFIC DISPOSITION: PROCEDURAL STORYLINE GENERATION

It should be noted that the project plan also contained the very same information that will follow. However, to ensure a clear consideration of these aspects of the project, they will be included in their own section of this document.

FUNCTIONAL REQUIREMENTS

DEVELOPMENT AND TESTING REQUIREMENTS

- A game in the text-adventure style, with the following characteristics:
 - A graphical user interface similar to a command prompt, designed to display game content, as well as content entered by the user.
 - A preliminary stage in the style of the escape the room genre, designed to act as a calibration of the user's playstyle.
 - A core stage in which the player has a simple task to undertake, with the information and context needed to flesh out this simple task being procedurally generated.
 - The ability to start a new game or resume a previously started game.
- Testing regiment:
 - An array of unit tests designed to cover the core functionality of the game.
 - A series of playtests by multiple people, whose information will be anonymised in order to protect sensitive information.

FURTHER DOCUMENTATION REQUIREMENTS

- A full report on the project's development including the following:
 - A full and in-depth literature review regarding the use of fuzzy logic and natural language processing, including any similar software or projects.
 - An overview of the testing undertaken including preliminary analysis and descriptions of both fail-states and the relevant fixes.
 - An overview of the different life-cycle stages the software went through throughout its development, with some exploration regarding maintenance and expansion.
 - An overview of the software, programming languages, and APIs used in the development of this project, along with any used assets.
 - A full analysis and retrospection of the development process, the decisions made and what can be taken away from the development of the software and its success in the aim described above.

PROJECT PLAN

APPROXIMATE SCHEDULE AND RISK ASSESSMENT

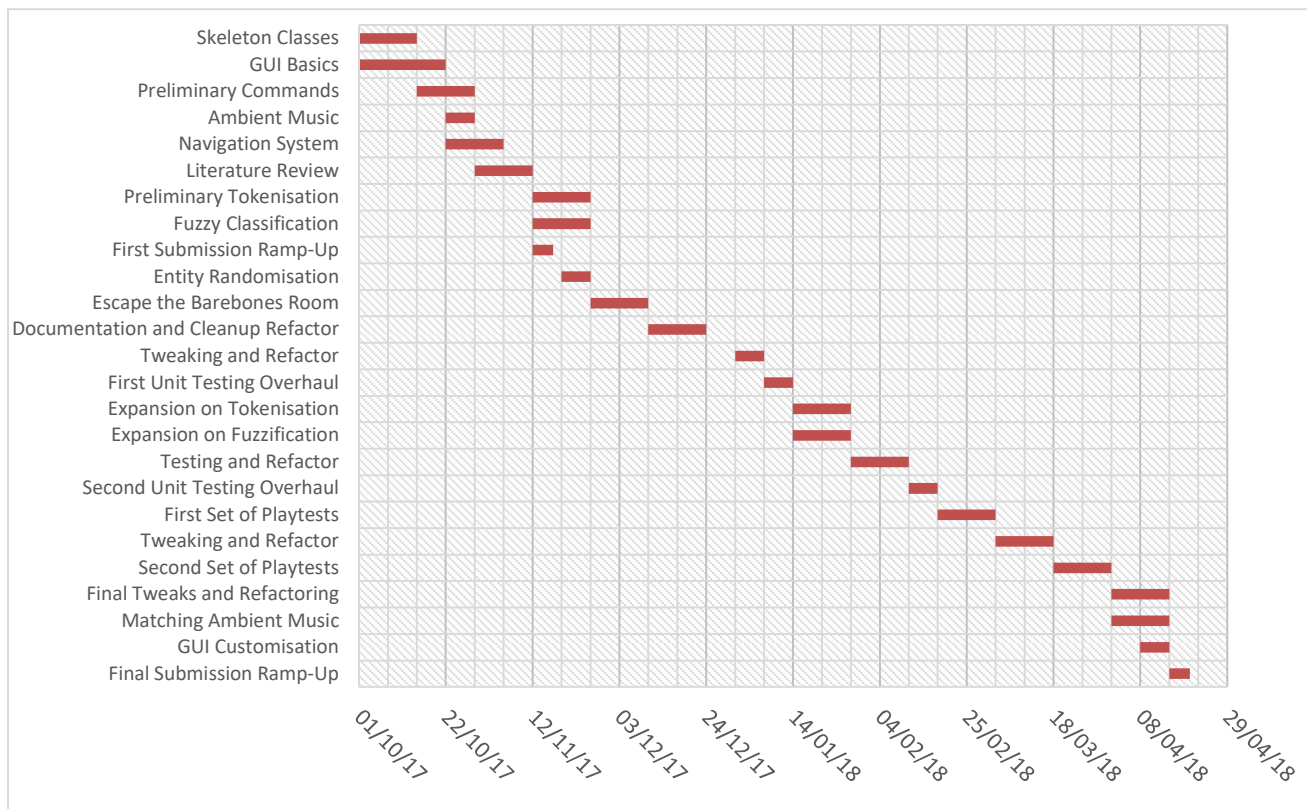
Task Description	Projected Start Date	Projected End Date	Duration In Days	Risk	Priority
Skeleton Classes	01/10/2017	15/10/2017	14.00	0	5
GUI Basics	01/10/2017	22/10/2017	21.00	0	5
Preliminary Commands	15/10/2017	29/10/2017	14.00	0	5
Ambient Music	22/10/2017	29/10/2017	7.00	0	3
Navigation System	22/10/2017	05/11/2017	14.00	1	5
Literature Review	29/10/2017	12/11/2017	14.00	3	5
Preliminary Tokenisation	12/11/2017	26/11/2017	14.00	2	5
Fuzzy Classification	12/11/2017	26/11/2017	14.00	1	5
First Submission Ramp-Up	12/11/2017	17/11/2017	5.00	3	5
Entity Randomisation	19/11/2017	26/11/2017	7.00	1	3
Escape The Barebones Room Documentation And Clean-up Refactor	26/11/2017	10/12/2017	14.00	2	5
Tweaking And Refactor	10/12/2017	24/12/2017	14.00	1	4
First Unit Testing Overhaul	31/12/2017	07/01/2018	7.00	1	3
Expansion On Tokenisation	07/01/2018	14/01/2018	7.00	3	4
Expansion On Fuzzification	14/01/2018	28/01/2018	14.00	4	5
Testing And Refactor	14/01/2018	28/01/2018	14.00	4	5
Second Unit Testing Overhaul	28/01/2018	11/02/2018	14.00	3	4
First Set Of Playtests	11/02/2018	18/02/2018	7.00	3	4
Tweaking And Refactor	18/02/2018	04/03/2018	14.00	2	4
Second Set Of Playtests	04/03/2018	18/03/2018	14.00	3	4
Final Tweaks And Refactoring	18/03/2018	01/04/2018	14.00	2	4
Matching Ambient Music	01/04/2018	15/04/2018	14.00	3	4
GUI Customisation	01/04/2018	15/04/2018	14.00	2	2
Final Submission Ramp-Up	08/04/2018	15/04/2018	7.00	1	1
	15/04/2018	20/04/2018	5.00	3	5

	0	1	2	3	4	5
Risk	Basic Tasks	Simple Tasks	Complex Experienced Tasks	Seemingly Simple New Tasks	Complex New Tasks	Complex Crucial New Tasks
Priority	Negligible	Optional	Optional but Desired	Somewhat Important	Very Important	Imperative

Fuzzification: Relates to the fuzzy logic components in the resulting program.

Tokenization: Relates to the natural language processing components in the resulting program.

GANTT CHART



COMMENTS OF CURRENT PROGRESS

So far, the projected development tasks have been met to an acceptable degree. These tasks include; Skeleton Classes, GUI Basics, Preliminary Commands, Ambient Music, and Navigation System. Although subject to further review, these features are in a generally acceptable condition and will act as the more simplistic interface for the user.

The features that actually pertain to the computer science fields of fuzzy logic and natural language processing still need to be implemented, but these have been projected for development after the completion and submission of the literature review.

As can be seen in the above GANTT chart, they have been merely drafted ready for proper implementation in the following week. Followed with further development of the final deliverable.

Student

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Date

25/10/2017