Creating a Virtual Reality Meditation Visualisation System

Requirement Specification

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1 Introduction

This document provides the requirement specifications for our virtual reality (VR) meditation application, referred henceforth as 'the product'; the specific software for the product shall be referred to as 'the software'. This document provides an introduction (section 1) to the project, covering the justification (section 1.1), scope (section 1.2), and systems (section 1.3); the requirements for the system (section 2), both functional (section 2.1) and non-functional (section 2.2), and potential risks and issues (section 2.3); the development of the project (section 3) in terms of the approach (section 3.1) and schedule (section 3.2).

1.1 Overview and Justification

This project is for Professor Alexandra Cristea who shall henceforth be referred to as 'the client'. The client has given us the project of developing a VR meditation application with the possible use as a basis for research into the topic. This project aims to help those who have not done any, or have done very little, meditation before by giving them an immersive VR world to aid concentration and relaxation.

This project has several main aims:

• Personalisation over customisation

The client would prefer for the project to personalise itself rather than have the user customise the project

• Stability

The client would prefer fewer stable features over more less stable features

Modularity

The client would prefer the software to be modular to allow for ease of reuse in more projects

1.1.1 Relevant Literature

To ensure the product is as intended, we will use relevant literature on the topic to ensure the product can be primarily a meditation app, and secondly usable as a basis for research. The following is a list of the literature referenced and design choices impacted by the literature:

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1.2 Project Scope

This project is intended for those who have never done any, or done very little, meditation before. It is aimed primarily at adults.

1.3 System Description

2 Solution Requirements

2.1 Functional Requirements

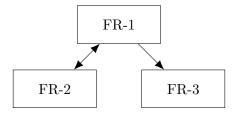


Figure 2.1: Functional dependency graph

ID - Name	FR-S-1 Stability
Description	Description Over multiple lines
MuShCo - Priority	Priority - Must haveShould haveCould have
Dependencies	No dependencies
Expected Results	Results
Exception handling	let it all crash

2.2 Non-functional Requirements

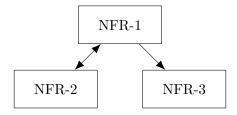


Figure 2.2: Non-functional dependency graph

ID - Name	NFR-O-1 Modularity
Description	Description Over multiple lines
Dependencies	No dependencies
Priority	Priority
Metrics	Metrics
Constraints	Constraints
ID - Name	NFR-S-1 Modularity
Description	Description Over multiple lines

No dependencies

Priority

Metrics

Security

Constraints

2.3 Risks and Issues

Dependencies

Priority

Metrics

Security

Constraints

2.3.1 Risk Matrix

			Impact	
		Low	Medium	High
lity	Unlikely	r1 test	r2	r3
Proabability	Possible	r4	r5 test	r6
I	Likely	r7	r8	r9 test

3 Project Development

3.1 Development Approach

3.2 Project Schedule

		2022			2023	3		
	October	November	December	January	February	March	April	
Requirement Specification Design Video Presentation		HE HE	PF.2					