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Vulknut Software Engineering

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GitHub Repository: Valknut Software Engineering

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Contents

1 Introduction

1.1 Purpose

This document serves to outline the overall description and requirements of the system. This document also serves as a guideline to the developers in order to ensure the final product meets these requirements, and indicates to the client what the required technologies are in order to be able to use this system.

1.2 Scope

Blah blah

1.3 Definitions, Acronyms, and Abbreviations

MEAN   MongoDB, Express.js, AngularJS (or Angular), and Node.js

VR   Virtual Reality

2 Design

2.1 Software Methodology

We will follow the Agile development methodology. The principles this methodology is based on advocates planning, constantly evolving development, early delivery and continues improvements, and it encourages flexibility as well as maintainability.

The agile development process is built on four main principles:

1. Individual and team interactions over processes and tools.

2. Working software over comprehensive documentation.

3. Customer collaboration over contract negotiation.

4. Responding to change over following a plan.

Due to frequent meetings with the client we are preparing for numerous requirement changes to be made in which the agile methodology thrives in. Requirements, implementation, design, etc., are continually revisited through the agile development life cycle.

For these reasons we specifically chose agile software development as it is well-known and the most applicable.
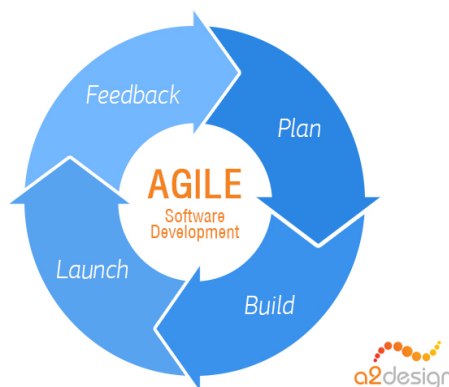
3 System Requirements

3.1 Functional Requirements

The following functional requirements will be met:

1. blah blah

3.2 Non-Functional Requirements

The following non-functional requirements will be met:

1. blah blah

4 Target Audience Characteristics

blah blah education blah

5 Technologies

1. Creating a 3D environment to create a presentation.

2. Unity 3D virtual reality system tool kit library.

3. HTC Vive virtual reality gear (already available).

4. Import external models.

5. Windows 10 environment.

6. Docker.

7. TravisCI.