TESTING/QUALITY ASSURANCE PHASE

Unit Testing

Unit testing will be conducted to ensure that the functionality of iLearnCentral has achieved the goals of each module and to test each module if they are working properly according to specifications and expected output of the modules.

Integration Testing

Integration Testing will be the next step after the unit testing. In integration testing, each module will be integrated to function. There should be communication between modules.

Alpha Testing

Alpha testing will be simulated by potential users, customers or independent test team. iLearnCentral will conduct Alpha Testing to its intended users to assess if the application complies with its functional and non-functional modules.

Acceptance Testing

Acceptance Testing will be used to ensure that the system meets mutually agreed upon requirements. It will also ensure that the system is completed successfully, and all criteria are met.

Costs Specification

The costs of developing a formal specification are the costs of the time required for skilled engineers to understand the system requirements, chose an appropriate approach to specification and develop a formal model of the system. ... Developing and analysing a formal specification front-loads software development costs.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Planning |  |  |  |  |
| Design |  |  |  |  |
| Equipment |  |  |  |  |
| Internet |  |  |  |  |
| Electricity |  |  |  |  |
| Food & Snacks |  |  |  |  |
| Apartment Lease |  |  |  |  |
| Testing |  |  |  |  |
| Deployment |  |  |  |  |

IMPLEMENTATION/DEPLOYMENT PHASE

Software Specification

A software requirements specification (SRS) is a description of a software system to be developed. ... Used appropriately, software requirements specifications can help prevent software project failure. The software requirements specification document lists sufficient and necessary requirements for the project development.

|  |  |
| --- | --- |
| Web Server |  |
| Web Development Tool |  |
| Database | Firebase |
| Text Editing Tool | Sublime, Notepad++ |
| Image Editing Tool | Adobe Photoshop CS3 or Higher |
| Eclipse | Oxygen |
| Android SDK | SDK 5.0 |
| Java JDK | Version 12 |
| Android Development Tool (ADT) Plug in | Latest Version |

Hardware Specification

|  |  |
| --- | --- |
| Android-Based Application | CPU: at least 800 MHz or higher  GPU: at least 800 MHz or Higher  Wi-Fi enabled OS: at least Android 5.0 (Lollipop, API 21)  Memory: at least 256 phone memory and at least 1 GB for memory card |
| Web-Based Application | CPU: Pentium 4 or Higher  Memory: at least 512 MB or Higher  LAN Card: capable of 100Mbps or Higher  OS: Windows 7 above  Must have an active internet connection |

1. Mobile UI completed

2. Firebase database done

3. Synchronization of Mobile and Web Apps

4.