

GENESIS – Applied SDLC and Software testing Learning Report

./

GENESIS - Learning Outcome & Mini-project Summary Report

Document History

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Ver. Rel.**  **No.** | **Release Date** | **Prepared. By** | **Reviewed By** | **Approved By** | **Remarks/Revision Details** |
| 1.0 |  |  |  |  |  |
| 1.1 |  |  |  |  |  |
| 1.2 |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Contents

[Requirements of the project 6](#_Toc58052212)

[1.1 Requirements 6](#_Toc58052213)

[1.1.1 High Level Requirements 6](#_Toc58052214)

[1.1.2 Low Level Requirements 6](#_Toc58052215)

**Table of Figures**

**List of Tables**

[Table 1.1 High level requirements for scientific calculator 6](#_Toc58051814)

[Table 1.2 Low level requirements for scientific calculator 6](#_Toc58051815)

# Requirements of the project

## Requirements

To develop a scientific calculator which has not only the arithmetic functionality but also there are other functionalities such as special functions (i.e., square root, factorial, prime, etc.), trigonometric functions and conversion functions (i.e., meter to centimeter, etc.)

### 1.1.1 High Level Requirements

Table 1.1 High level requirements for scientific calculator

|  |  |
| --- | --- |
| **ID** | **Description** |
| HL1 | Arithmetic Functions |
| HL2 | Special Function |
| HL3 | Trigonometric Functions |
| HL4 | Conversion Functions |

### 1.1.2 Low Level Requirements

Table 1.2 Low level requirements for scientific calculator

|  |  |
| --- | --- |
| **ID** | **Description** |
| HL1\_L1 | Add |
| HL1\_L2 | Subtract |
| HL1\_L3 | Multiply |
| HL1\_L4 | Divide |
| HL2\_L1 | Nth power |
| HL2\_L2 | Square |
| HL2\_L3 | Factorial |
| HL2\_L4 | Greater |
| HL2\_L5 | Smaller |
| HL2\_L6 | Prime |
| HL2\_L7 | Modulus |
| HL2\_L8 | Square root |
| HL3\_L1 | Sine Value |
| HL3\_L2 | Cos Value |
| HL3\_L3 | Tan Value |
| HL4\_L1 | Centimetre to meter |
| HL4\_L2 | Meter to Centimetre |
| HL4\_L3 | Meter to Kilometre |
| HL4\_L4 | Kilometre to Meter |
| HL4\_L5 | Inch to Centimetre |
| HL4\_L6 | Centimetre to inch |