**Design Document**

**For**

**Calculator Software Project**

**Version 1.2 approved**

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**Software Engineering**

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**Table of Contents**

[**Modules**](#_icmggo2q2qv0) **3**

[Parser](#_qk6fvwo5gqfu) 3

[Calculation Engine](#_hmkyhlyhpati) 3

[Error Management](#_vj68cw47gbij) 3

[**User Interface**](#_xixqy190d8vz) **3**

[XXX](#_ndtemdcgnica) 3

[XXX](#_p0vvu86xzns) 3

[XXX](#_4wy3nkeqtudy) 3

[**Division of Tasks**](#_ffn73oaq3m0p) **3**

[Timeline Table](#_w4tvw8u4ren) 3

[Division of Data](#_dd9244un2ch5) 4

[XXX](#_rp6lhj98a65y) 4

[**Prototype**](#_6l62587huhvw) **4**

[XXX](#_ntx7ef5sxai9) 4

[XXX](#_i44ondvlhcvg) 5

[XXX](#_mg5w5ms3mhzs) 5

**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
| Karla Gonzales | 11/13/17 | Table Formatting | 1.1 |
| Isaiah Rowe | 11/27 | Additional Information | 1.2 |

# Modules

## Parser

ANTLR- (ANother Tool for Language Recognition) is a powerful parser generator for reading, processing, executing, or translating structured text or binary files. It's widely used to build languages, tools, and frameworks. From a grammar, ANTLR generates a parser that can build and walk parse trees.

## Calculation Engine

XXX

## Error Management

XXX

# User Interface

A UI specificationdefines the rules of engagement for a user interacting with a specific page on a website or screen within an application

## Visual overview of the screen

Visual Overview page is on a separate document

## Display Rules

1.Primary Screen only consist of the operation interface and navigation bar.

2.If help button is executed , a message pops up that says “How can I help you?”

3. If additional help is needed , the search bar will send the user to an online search engine for assistance.

# Division of Tasks

This section outlines the Division of tasks and provides a timeline table for the project's progression.

## Timeline Table

|  |  |  |  |
| --- | --- | --- | --- |
| **Dimension** | **Driver (state objective)** | **Constraint (state limits)** | **Driver (state objective)** |
| Schedule | Project documents to be available by 11/20 | Limited time to fully complete program | Project documents to be available by 11/20 |
| Features | Begin Programming by  11/20 | Class Ends in December | Begin Programming by  11/20 |
| Quality | Finish Majority of Programming by December | Class Ends in December | Finish Majority of Programming by December |

## Division of Data

|  |  |  |
| --- | --- | --- |
| ***Staff*** | ***Tasks*** | ***Constraint (state limits)*** |
| *Chris Saravani* | *Project Manager*  *Presenter* | *Limited Project Time* |
| *Karla Gonzales* | *Coder*  *Document Contributor* | *Limited Project Time* |
| *Miguel Lopez* | *Tester*  *Document Contributor* | *Limited Project Time* |
| *Isaiah Sumlin* | *Tester*  *Document Contributor* | *Limited Project Time* |

## XXX

*XXX*

# Prototype

*XXX*

## XXX

*XXX*

## XXX

*XXX*

## XXX

XXX