Loan Application

TECHNICAL DESIGN DOCUMENT

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| **Author** | *Patrick Cuauro* |
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# SECTION 1: INTRODUCTION

## Purpose

*The purpose of the Loan Application is to provide an easy and friendly method to calculate the results, in financial terms, of borrowing money at a certain rate.*

## Terminology

|  |  |
| --- | --- |
| **Name** | **Comments** |
| *MEAN Stack* | *MongoDB, Express, Angular, and Node.js* |
| *VS Code* | *Development IDE* |
| *Angular Material* | [*https://material.angular.io/*](https://material.angular.io/) |
| *Flex-layout* | [*https://github.com/angular/flex-layout*](https://github.com/angular/flex-layout) |
|  |  |

## User Personas

## A person wearing glasses and smiling Description automatically generated

A close-up of a person

Description automatically generated

A person in a plaid shirt

Description automatically generated

## User Stories

1. *Andrew Whitaker*
   1. *Andrew needs to program the formula for the loan calculator app based on potential customer needs.*
   2. *Andrew needs to make sure the validation for the forms is correct to avoid issues with customer input.*
   3. *Andrew wants to make sure the traffic for the server doesn’t saturate the app and make the potential have a negative impact.*
2. *Rita Hernandez*
   1. *Rita wants to start her own business; she needs to know how much she needs to invest to start on the right foot.*
   2. *Rita wants to remodel her house and wants to know how much money she needs to loan to get the changes she wants for her house.*
   3. *Rita wants to improve her management skills and add more training to her resume and climb up in the corporation. To achieve this, she wants to take a management course at college and needs to see if a loan would be a viable option.*
3. *George Paliakos*
   1. *George needs to design the color palette for the application.*
   2. *George needs to make sure the validation process is working properly.*
   3. *George needs to design the animations of the application results and possible graphics.*

## Time Estimations

*[Given the above user stories, identify the appropriate story points/time estimations]*

|  |  |  |
| --- | --- | --- |
| *Persona* | *Story* | *Points* |
| *Andy* | *Develop the code for the formulas* | *13* |
| *George* | *Design the animations* | *5* |
| *Rita* | *Get estimations about home loans* | *1* |
| *Andy* | *Develop the form validation* | *21* |
| *George* | *Select the Color Palette for the App* | *8* |
| *Rita* | *Get estimates depending on the interest rates* | *2* |
| *Andy* | *Server traffic capacity* | *34* |
| *George* | *Verify the validation is correct* | *1* |
| *Rita* | *Select between different types of loans* | *3* |

# SECTION 2: PROCESS DESIGN

## 2.1. Prototypes

*A screenshot of a calculator

Description automatically generated*

*A screenshot of a computer

Description automatically generated*

*A screenshot of a computer

Description automatically generated*

## 2.2. ORD (Object Relational Diagram(s)

*A diagram of a customer

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