

SOFTWARE DESIGN SPECIFICATION

ImaliPay Digital Lending Platform - Backend Mini Project

1. **Introduction**

This is a simple micro service that mimics a digital lending platform for the interview process at ImaliPay.

2. **System Overview:**

This web service provides an actor with the option to request a loan offer and the actor is presented with one or more loan offers based on their customer loan maximum qualification. From the offers presented, a customer can choose and accept one of the offers. When a customer accepts an offer then the system will credit the customers' mobile wallet.

3. **Design Considerations**

3.1. **Assumptions and Dependencies:**

A user requesting for a loan offer is registered, validated and has logged in to the lending system using valid and up to date credentials.

3.2. **Goals and Guidelines:** Describe any goals and guidelines for the design of the software.

3.3. **Development Methods**

This web service will be built using Java 11, spring boot v.2.5.4, maven v 3.6.5 and can be deployed as a jar/war or in an application container(tomcat/wildfly).

4. **Architectural Strategies:** The application is deployed as a standalone application or be run independently by first ensuring all inter independent services are up for continuous service delivery.