**Software Requirement Specification**

***Insurance Management - POC***

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Document Version: 0.5

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**Document Revision History**

|  |  |  |  |  |  |
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| **S. NO** | **VERSION** | **DATE** | **AUTHOR** | **APPROVAL BY** | **REMARKS** |
| 1 | 0.1 | 9-Oct-2017 | Sumit Jain |  | First Draft |
| 2 | 0.2 | 9-Oct-2017 | Sumit Jain |  | Added Request and Response Forms |
| 3 | 0.3 | 10-Oct-2017 | Tajinder Singh |  | Updated some sections |
| 4 | 0.4 | 10-Oct-2017 | Sumit Jain |  | Added Technology Stack |
| 5 | 0.5 | 11-Oct-2017 | Sumit Jain |  | Added continuous integration architecture |

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# Introduction

This document provides all information of requirements for the Insurance Policy Management application, which will be used by the users to purchase/select the suitable policies for them.

# Purpose

Insurance Management provides a one stop solution where customer can see what policy best suits them as per their requirements, policy suggestions as per the customer eligibility, purchase the policy online, online premium payments and manage all purchased policies at any point of time.

# Audience

1. Anand Kumar (Sponsor)
2. Tajinder Singh (Project Manager)
3. Rajul Shukla (Developer)
4. Dishant Anand (Developer)
5. Sumit Jain (QA)

# Project Scope

The development of this POC application will be completed in three phases which are explained in detail in section 7.

This application will be an end to end policy management system where-in user can check, buy, service and opt for new schemes as per their criteria. Also, user can do online premium payments as well from his/her user accounts.

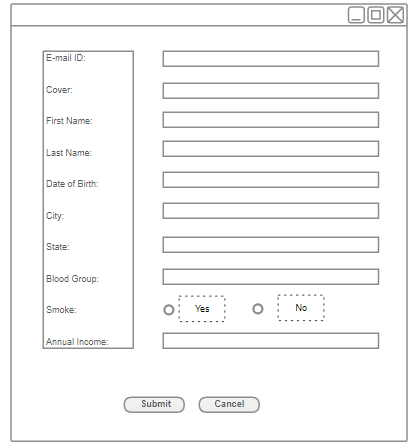
The POC will be build using micro services architecture and all the components will be loosely coupled with each other and should be deployed separately;

# Specific Requirements

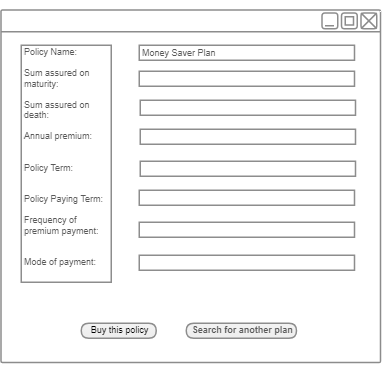
## Phase 1:

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.** | **Requirement Title** | **Description** | **Priority** |
| 1 | User Form | User will fill the mandatory details on the UI, policy with premium amount and other details | Must Have |
| 2 | Policy Suggestion | The above policy will be shown as per the criteria which will be calculated according to the data provided by customer | Must Have |
| 3 | E-mail | An e-mail will be sent to customer with the estimations and policy details on the e-mail provided | Must Have |

**Request Form:**



**Response:**



## Phase 2:

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.** | **Requirement Title** | **Description** | **Priority** |
| 1 | User Account Page | User will login to his/her account and can see all enrolled policies | Must Have |
| 2 | Policy Suggestion List | Customer will be suggested more policies and schemes as per the information provided when customer visits for first time to choose policy | Must Have |
| 3 | Online Premium Payment | User will be able to pay premium online through payment page | Must Have |
| 4 | Reminders | User will be reminded for all due payments through e-mail | Must Have |

## Phase 3:

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.** | **Requirement Title** | **Description** | **Priority** |
| 1 | Policy Management | User will be able to manage all enrolled policies through his/her account | Must Have |
| 2 | Chat Bot | User will be provided with chat service once he/she logins to his account for all queries they have | Must Have |

# Technology Stack

Below are the technologies that will be used for building the POC

## NetFlix ZUUL - API gateway, Load balancer

## Swagger - API documentation

## NetFlix Eureka - Service registry

## NetFlix Eureka Client - Service registry client

## Hystrix - Circuit breaker

## NetFlix Ribbon - Load balancer

## JBoss Drools - Rule engine

## Apache Kafka - message broker

## Feign - REST client

## Spring Boot - Application F**r**amework

## Spring REST API

## Spring Data JPA - Application F**r**amework

## Hibernate - ORM (Object relational mapping tool)

## Jenkins - CI Tool

## Sonarqube - code coverage, quality

## JUnit - unit test case framework

## Powermock - test cases libraries

## Mockito - test cases libraries

## Docker - Deployment container

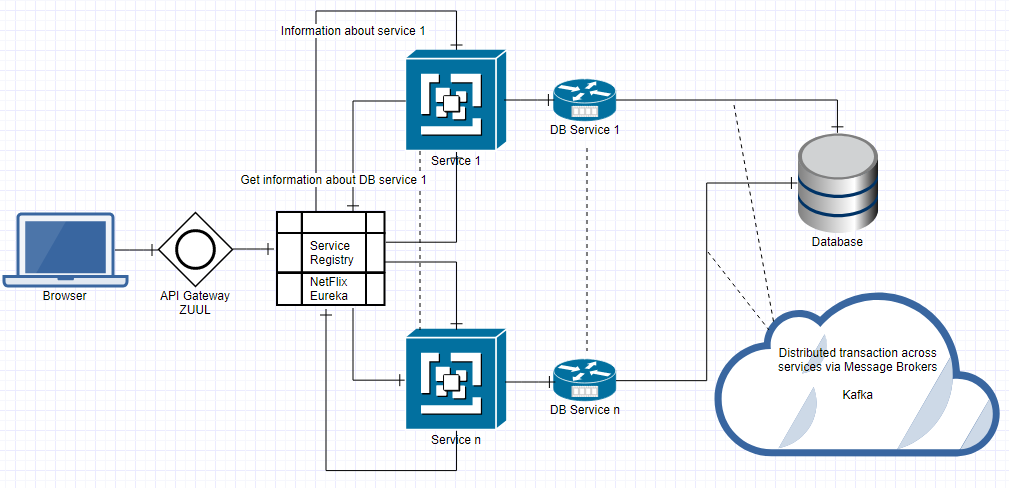
## Kubernates - Deployment container management

## MySQL – DB

## Liquibase - Database management

## Maven - Build Management

## Git - Repository



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# Acronyms & Abbreviations

IMS – Insurance Management System

POC – Proof of Concept

# References

TBD