A

PROJECT REPORT

ON

Unity Life Insurance Company

GROUP NAME:- **TECH WIZARDS**

Developed By:-

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Abstract

Insurance system automates the management of insurance activities, which involves Defining Policies, Schemes, Policy Specifications, Policy Terms and Conditions, Policies registrations by the customers, Facilitates the Premiums Flexi-Pay modes, Policy Bonus in Flexible periods.

The Agents are involved in the process of the Customer Policy registration and the Commissions are based on the targets achieved by the Agents.

Insurance System also maintains the database of the Branch Managers who deals with the Agents which in turn deals with the Customers.

Problem Statement

Before developing this application all activities done manually, then all the activities take more time and also take more manpower. Commission, interests, dues calculate manually, based on this manual problem some times calculate the wrong .

All related information passed one branch to another branch through courier. Some times missed the important documents. So these problems overcome when we will develop the system. This system is very helpful to automation of entire Insurance system and also reduces the time and manpower.

Objective of the System

The main objective of the developed system is to allow admin users to register insured persons with their name, date of birth, residence address, medical history and also policy details. After giving registering all the insured persons, website should provide management facilities like delete unwanted persons' data. And, also should provide awareness to the visitors about micro insurance through articles.

Modules Description

The entire system is divided into 3 modules:-

1. Manager
2. Agent
3. Customer

1. Manager (Admin)

The Managers of the different branches recruits the Agents and also registration of customers. He is also responsible for registration of Policies, calculate the premium amounts, interests, dues, bonus and also agent Commission. Bonus calculate based on the payment of premiums. The Manager also responsible for calculate the Agent Commission based on Agent performance.

The Manager is responsible for

- Manages the Agents
- Customer Registrations
- Customer Policy Registrations
- Customer Premium Payments
- Customer Bonus
- Agent Commission
- Defines Policies and Schemes
- Defines Policies and Schemes Reports
  - Policy details
  - Agent Commission
  - Customer Details
  - Policy Details

2. Agents

The main role of Agents is to registration of the

Customers. Agents just like a mediator between Insurance system and Customers. Based on their performance they will get commission. These systems provide a facility to Agents like to visible their Commission and also their customer details.

The responsibilities of the Agents as follows

- Involves in the Customer Policy Registration Process
- Agent Personal Details
- Manager Details

3 Customer

The Customers are a main source of this system. Based on his interest and benefits, he takes a policy. Customers also take more than one policy based on their requirement. Here so many facilities are provided to the Customers, like their information visible on line, like premium dates, bonus dates, personal details, policy details.

Software Requirements

One of the most difficult tasks is that, the selection of the software, once system requirement is known is determining whether a particular software package fits the requirements. After initial selection further security is needed to determine the desirability of particular software compared with other candidates. This section first summarizes the application requirement question and then suggests more detailed comparisons.

Software Requirements

- Web Server Apache Tomcat 9.0.73
- Chrome/Firefox Browser.
- MySQL 8.0.30
- Editor Eclipse 4.26 (2022-12)
- Microsoft Visual Studio Code

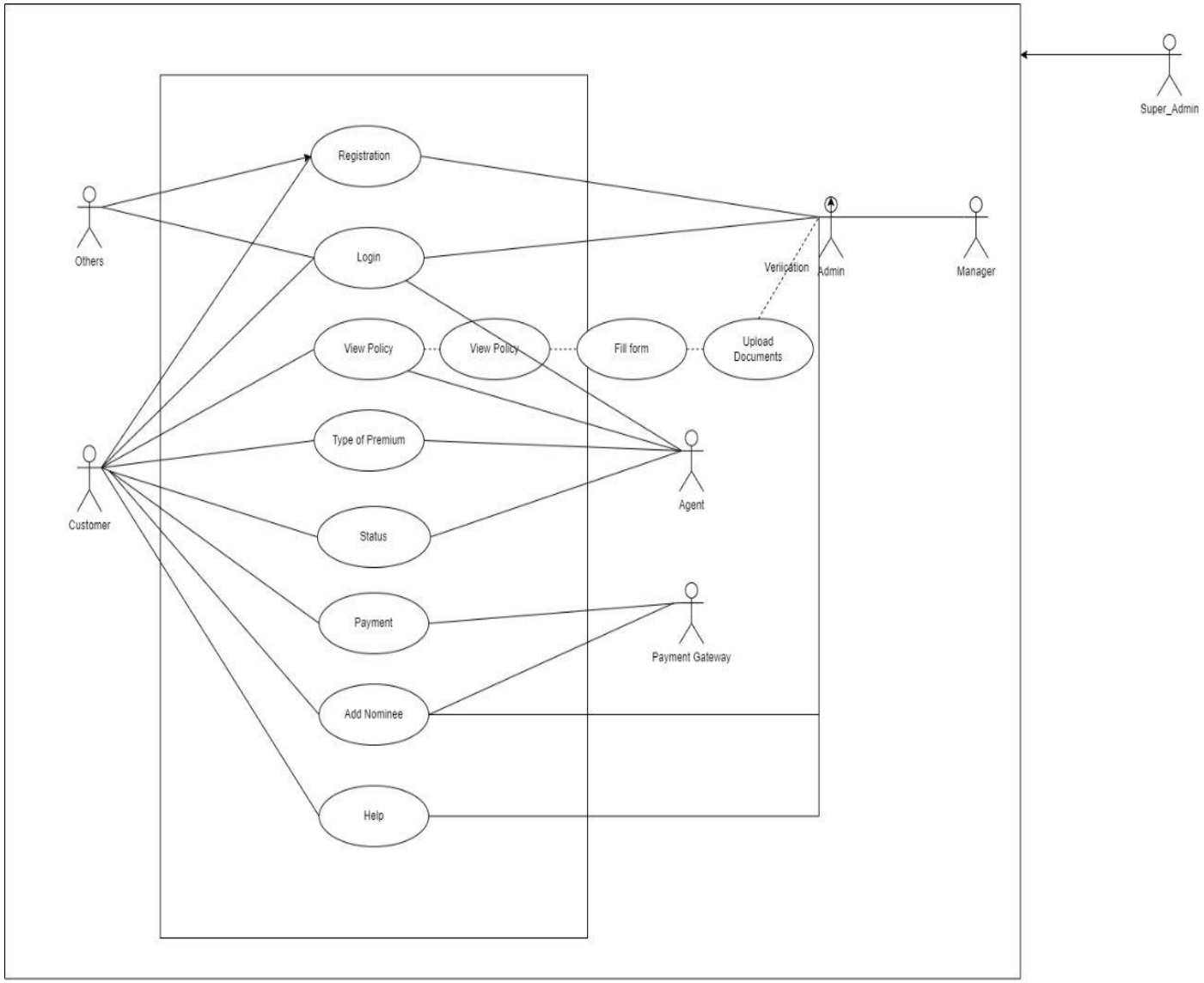
Technology Used

- Java
- React Js
- Spring Boot

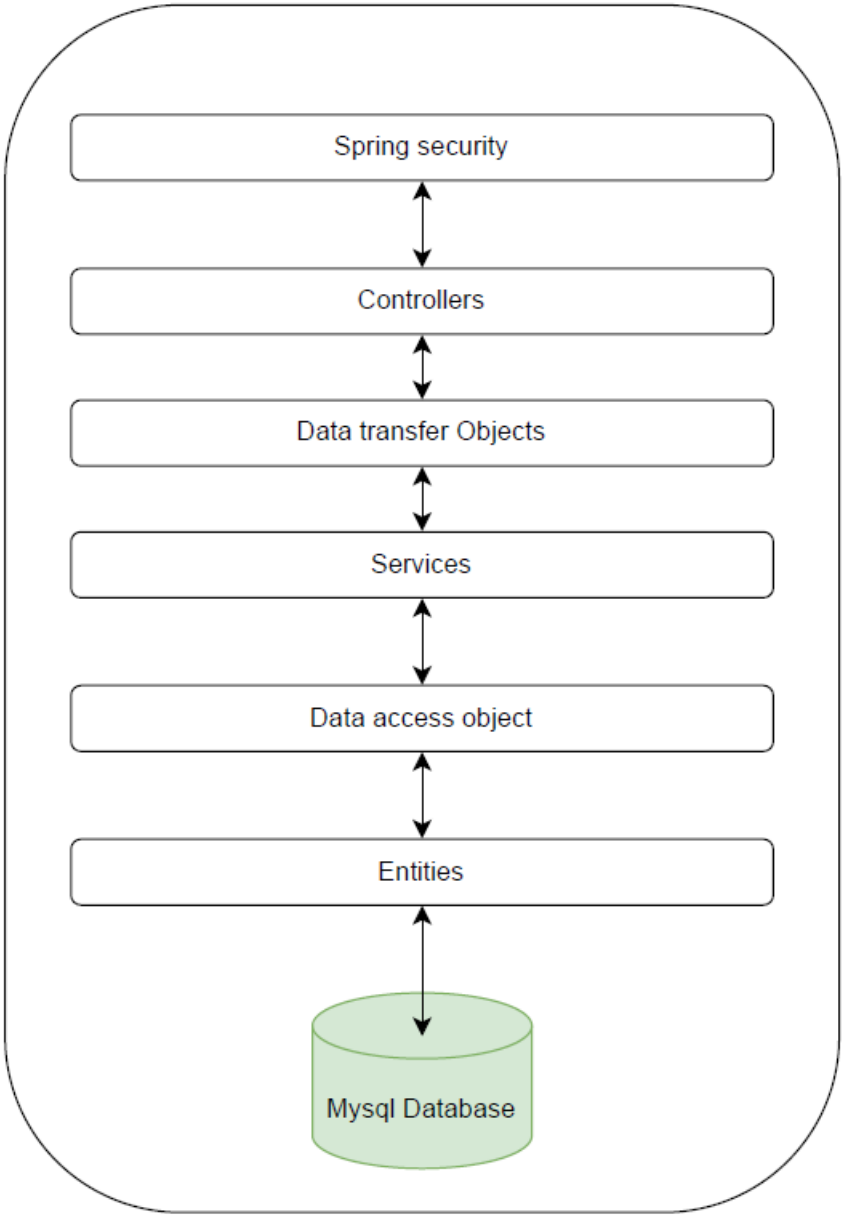
Hardware Requirements

- Hard Disk – 4 GB Free space.
- RAM – 4 GB.
- Processor- 2 GHz.

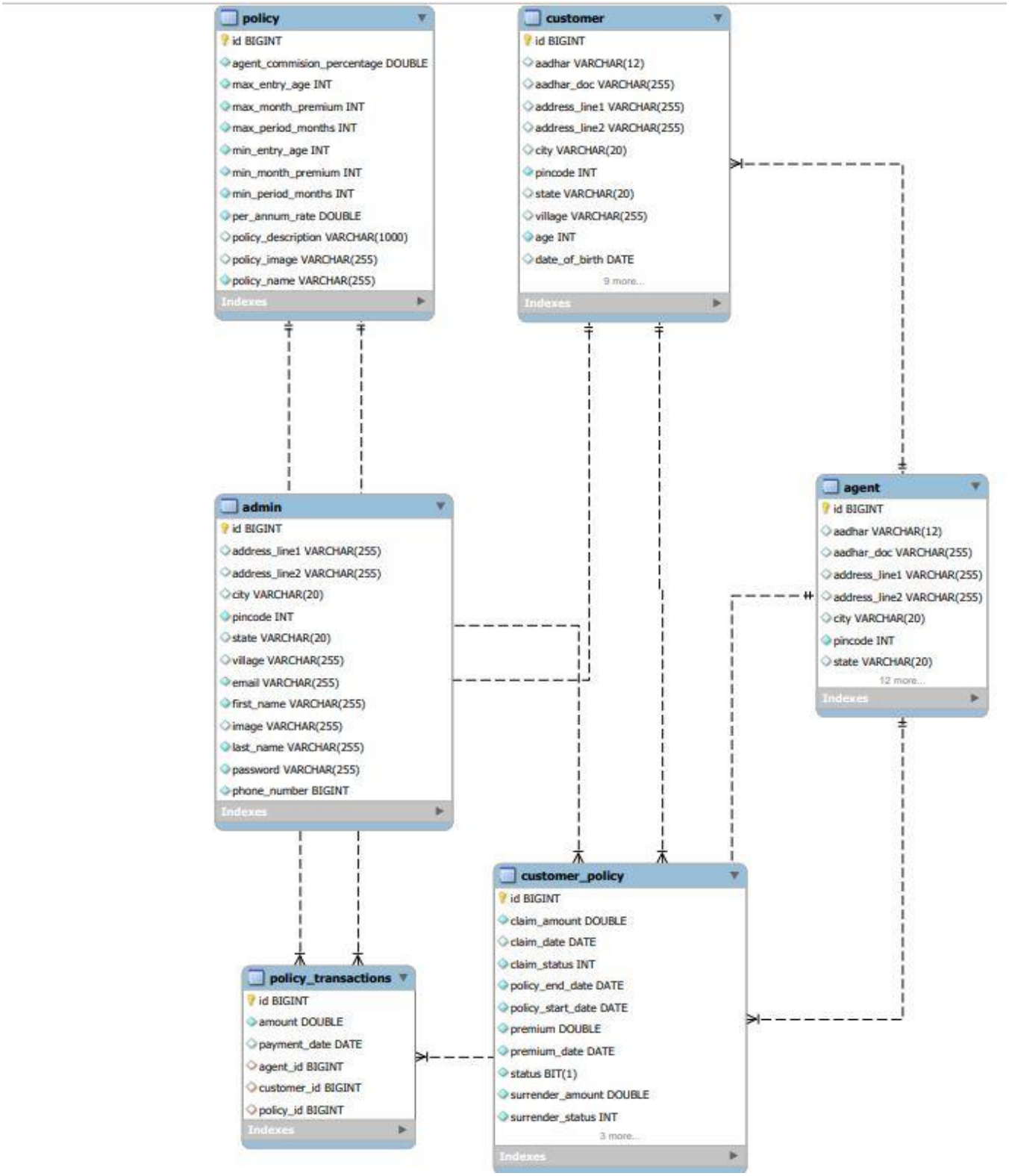
UseCase Flow Diagram



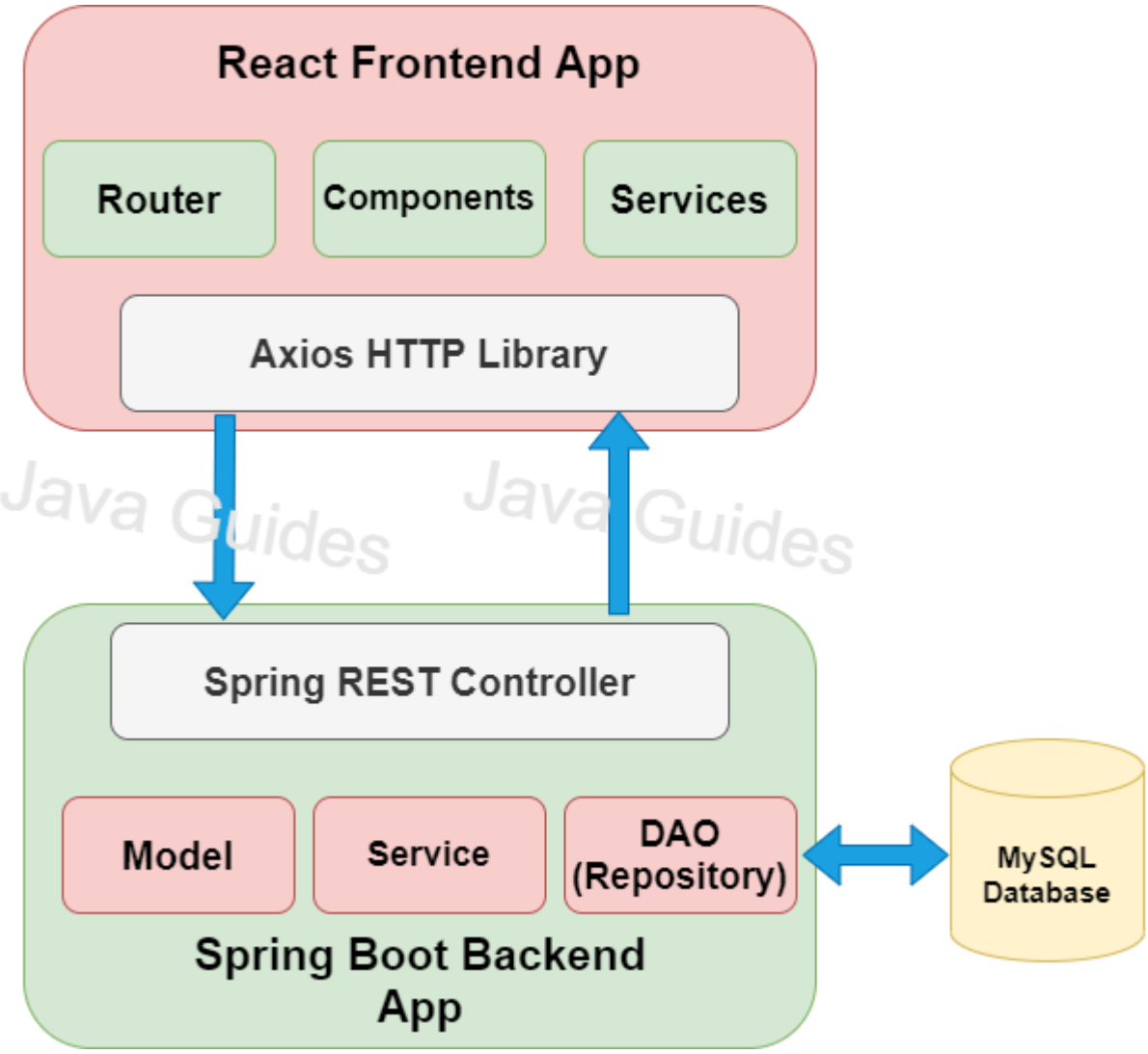
Backend Flow Diagram



ER Modeling Diagram:



Connection Between Springboot and React js



Architecture and Design:

The Insurance Management System has a three-tier architecture - Presentation Layer, Application Layer, and Data Layer. The presentation layer is built using React, which communicates with the application layer (built using Spring Boot) via RESTful API calls. The application layer is responsible for processing the requests, and the data layer (MySQL database) stores the data. The system is designed to be scalable, reliable, and maintainable.

User Authentication and Authorization:

The Insurance Management System uses JWT for user authentication and authorization. When a user logs in, the system generates a JWT token, which is then used to authenticate the user for subsequent requests. The system also uses role-based access control to restrict access to certain features based on the user's role.

Policy Management:

The system allows companies to create and manage insurance policies. Companies can set up different policy types, coverage, and premiums. Policies can be customized for different customers based on their needs. The system also allows companies to manage policy renewals, cancellations, and endorsements.

Claims Management:

The system allows companies to manage insurance claims. Companies can process and approve claims based on their policies and coverage. The system also allows companies to track the progress of claims and manage claim settlements.

Customer Management:

The system allows companies to manage their customers. Companies can create and manage customer profiles, policy information, and claims history. The system also provides real-time analytics on customer behavior, such as policy purchase patterns and claims history.

Dashboard and Analytics:

The system provides real-time data and analytics through a dashboard. Companies can view their key performance indicators, policy trends, and customer behavior. The dashboard provides visual representations of data using charts, graphs, and tables.

Security:

The system is designed with security in mind. It uses HTTPS to encrypt communication between the client and server. It also uses JWT for secure user authentication and authorization. The system is designed to prevent common security attacks such as SQL injection, cross-site scripting (XSS), and cross-site request forgery (CSRF).

Maintenance and Support:

The system is designed to be maintainable and supportable. The system is documented, and the code is organized and structured for easy maintenance. The system has a support team that provides support and maintenance services to ensure the system's smooth operation.