Rentkaro

Online Rental System

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Github link: https://github.com/SayoniSaha/RentKaro

System Requirements Specification Document v 1.0

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1. Introduction

1.1 Scope:

The main scope of the project is to provide users a one stop rental portal. It provides services such as hiring automobiles, furnitures and appliances. Customers can view products based on the city. Customers should register on the portal in order to add the product to cart .

The list of priorities of Rentkaro app:

- Selecting city
- User Registration and Login
- Adding product to the cart
- Payment Portal

1.2 Definitions:

- Spring Boot: For developing Microservices(Middleware)
- My SQL: For developing database for storing all data(Back end)
- Angular: For developing functional Web pages(Front end)
- Bootstrap: For designing user interface

1.3 Overview:

This Document will describe all the main requirements that is required to develop this application. Specifically it will outline the type of database used, technology used for

front end, back end and user interface. It also outlines the infrastructure and working of application.

2. System Objectives

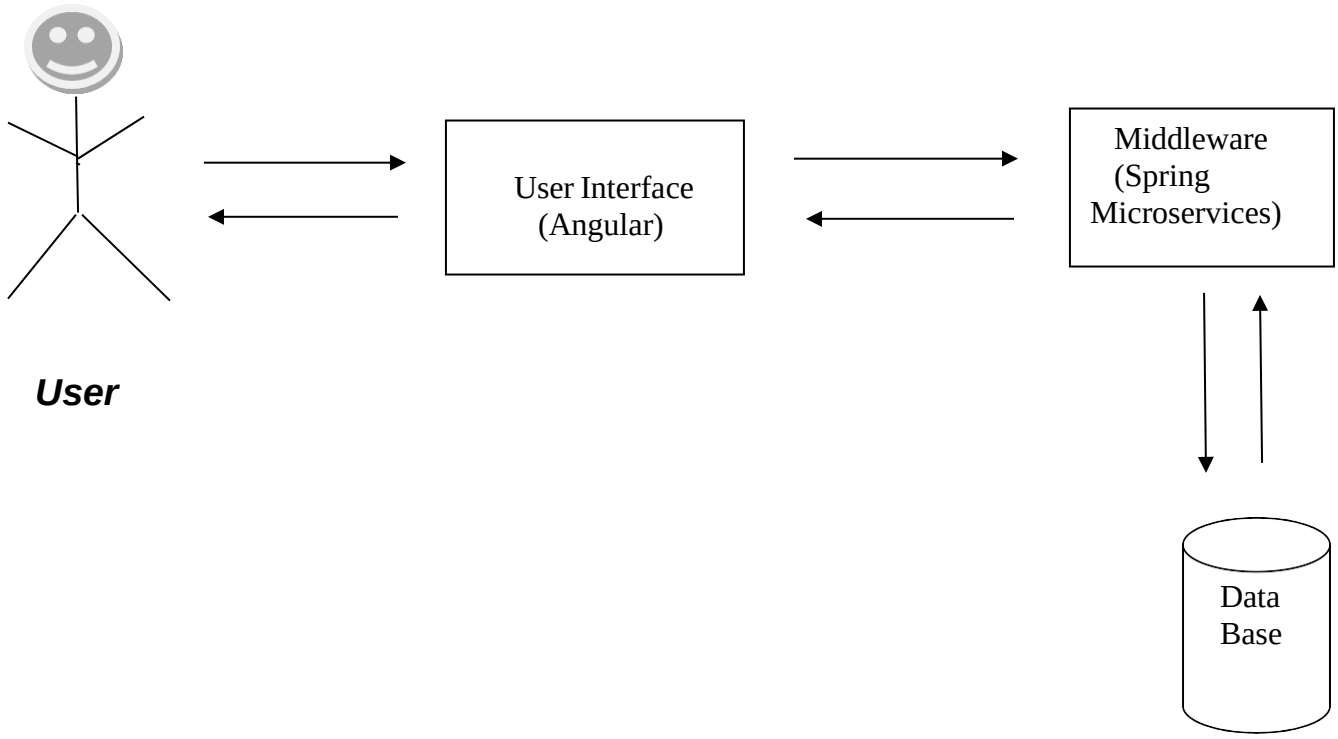

Figure 1. System Context Diagram

The diagram above explains the main conceptual elements in the application and its relationships with the architecture. A user first interacts with user interface which will process the request to Spring microservices which will further insert the data to database . In response the data will be checked in database and return the response to user interface.

Rentkaro app	Core application of the project used to provide users a one stop rental portal. It provides services such as hiring automobiles, furnitures and appliances. Customers can view products based on the city. Customers should register on the portal in order to add the product to cart .
User Interface	It is a angular application in which user can view all the product which are available and they can register and login to rent the product for a month .
Middleware	Spring Microservices are used as middleware.
Database	My SQL database is used to store all user and product details

3. Functional Requirements

3.1 Brief Description

The Rentkaro application helps customer to buy the products for rent by giving the required details.

3.2 Interface Details

See the System Context diagram.

3.3 Table of requirement

Flow	The Rentkaro Application is a single page application to provide users a one stop rental portal. It provides services such as hiring automobiles, furnitures and appliances. Customers can view products based on the city. Customers should register on the portal in order to add the product to cart . The application will help users to find different categories of product in a single platform. It can be accessed easily. And also easy to rent the products. Application also provides users easy way to pay the bill through payment gateway.

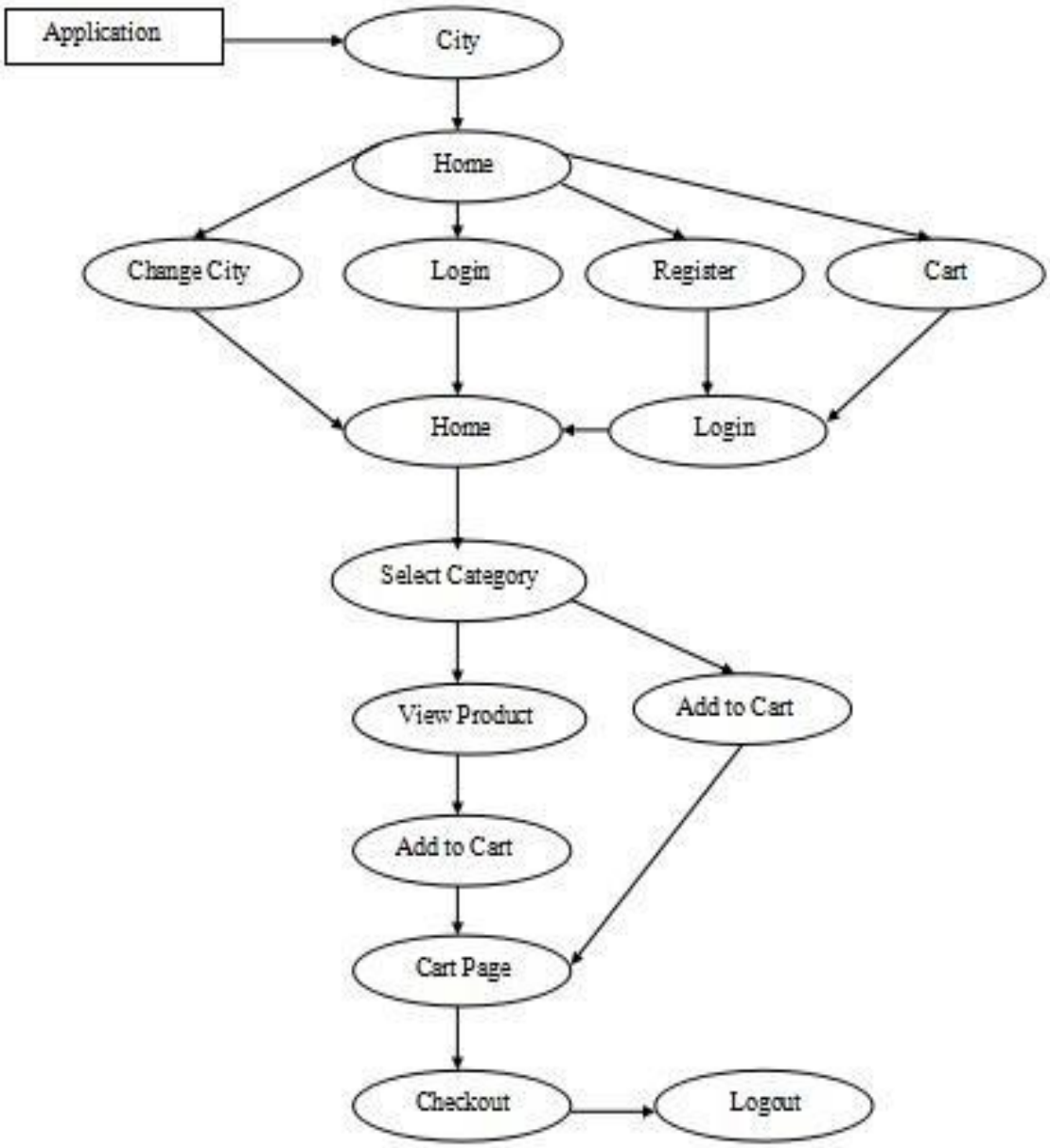

Figure 2. Application Flow Diagram

4. Microservice Architecture:

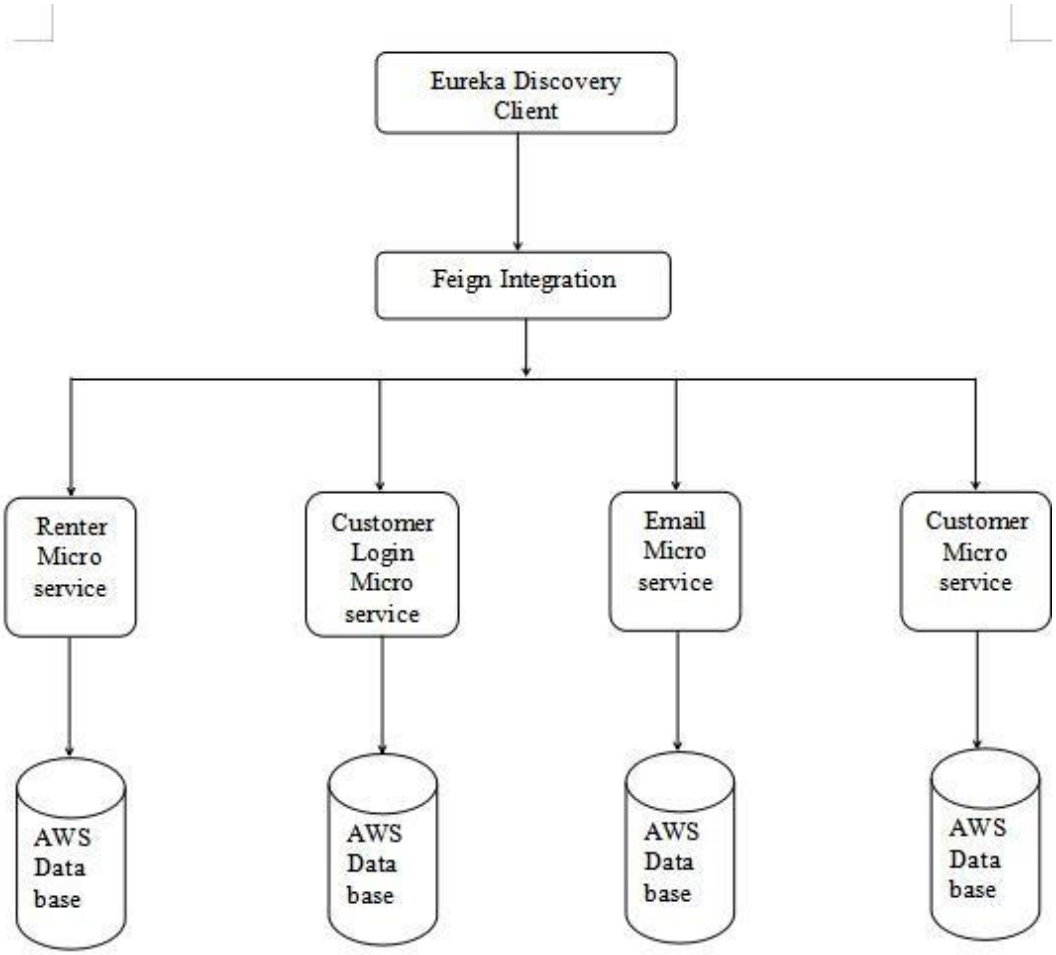

Figure 3. Microservice Diagram

5. Database Schema:

There is a total of 6 tables which the Rentkaro App uses to save and display the data. Customer table is used for storing the details of the users who have registered for the first time on the Rentkaro website. The category and product tables have the data of different categories of product and product details, And the remaining 4 tables has data of city, orders , cart and the payment details.

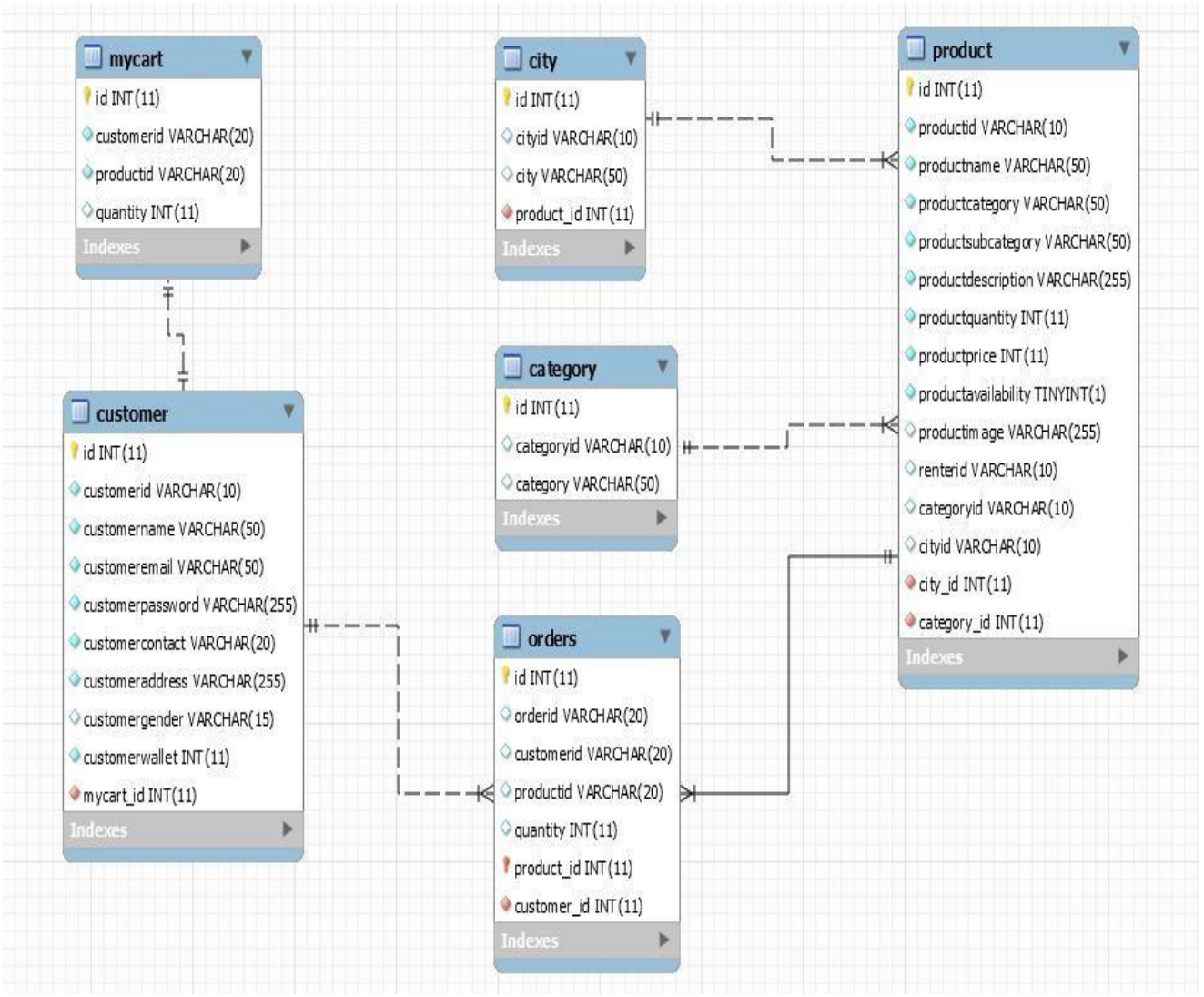

Figure 4. Schema Diagram