VIRTUSA CODELITE HACKATHON

FS_Team_38

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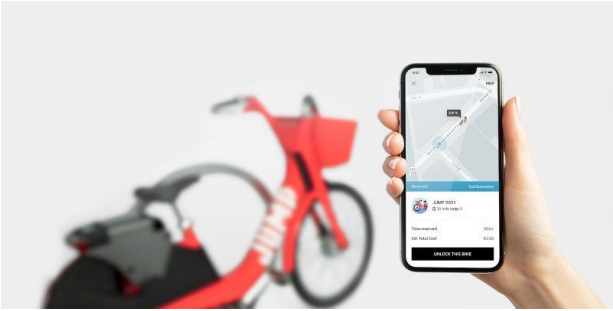
PROBLEM STATEMENT

DESIGNING A BIKE RENTAL BOOKING APPLICATION



ABSTRACT

Neo Bike Rental is an application to be built as a product that can help customers to choose a Company and book a bike

Users :

1.Super Admin

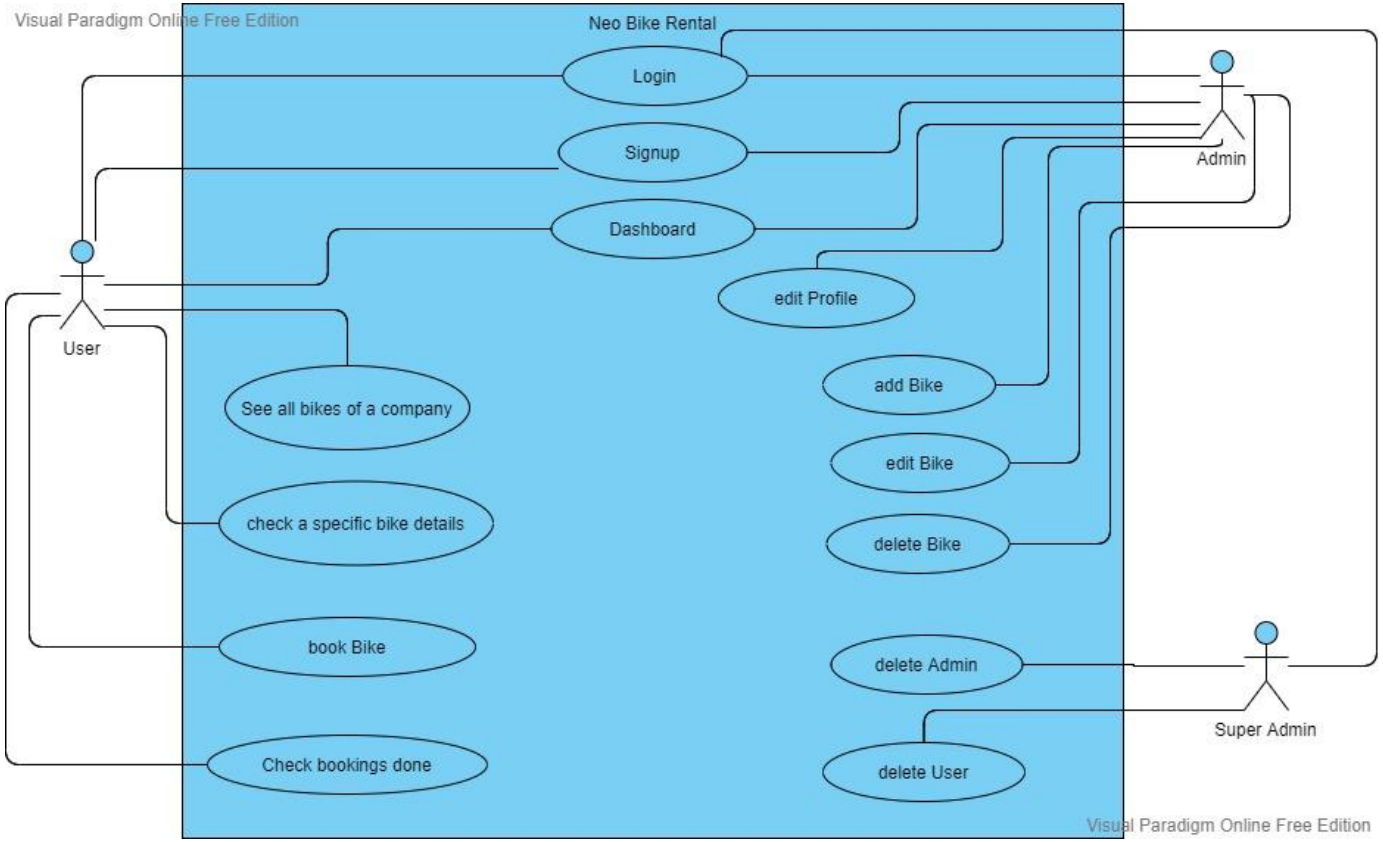
2.Admin

3.Customer

FUNCTIONAL REQUIREMENTS

- Build an application that customers can book Bikes. - The application should have signup, login, profile, dashboard page for user and login, signup, profile, dashboard, add bike page for the admin.
- This application should have a provision to maintain a database for customer information, Admin information, Booking information and bike information.
- Also, an integrated platform required for customers, admin and super admin.
- Administration module to include options for adding / modifying / removing the existing product(s) and customer management.
- There should be one booking per bike.

USE CASE DIAGRAM



TECHNOLOGY STACK

- **Front End**
  - Angular 7+
  - Google Material Design
  - Bootstrap
- **Back End**
  - Spring Boot
  - Spring Web (Rest Controller)
  - Spring Security
  - Spring AOP
  - Spring Hibernate
- **Core Platform** : OpenJDK 11
- **Database** : MySQL

SCOPE

In these recent years, the scope of gaining more prominence in the bike rental business has been very positive. The gradual shift of the people towards a more economical and convenient way of commuting has made the people not only smart but also willing to take up rented bikes. And the best way to book one is with the help of these apps since we are all highly dependent on apps and everything is easily available with the help of few clicks.

BENEFITS

For Customers

- Users can make easy bookings through the app in just a few clicks.
- Bike can be rented at a low cost. Since they have to option of looking up , they get the benefit of choosing the bike according to their budget.

For Admins

- It can easily be put up for rent and it is easy money earned for the bike owners.
- The bike owners can manage their bookings with the help of the dashboard available on the app. This gives them insight into the real-time analytics of their performance.

Thank
you