PROJECT TITLE: JOBIKE RENTAL SYSTEM

NAME: JOAN AWUOR ONYANGO

REGNO: SCII/01344/2018

1. PROJECT BACKGROUND AND DESCRIPTION.

In earlier days, there have been systems which were put in place to help in resolving our current transport system problems that affect the 3-pillars of SDGs.

Jobike bike sharing is a short-journey transportation system that composed of some set of bike stations scattered throughout an area of a city. Each station is composed of docks, where bikes can be borrowed or returned and a set of bikes available to the systems users’. When using the system, a person can find a bike station near their current location, rent a bike at a lower cost, ride it to another station near his destination where he returns the bike.

1. PROJECT SCOPE.

The proposed system aims to develop a web based application that will improve the overall application of the Jobike system. Jobike Rental system will have two main modules. One is the admin and the other is the user. The user module is again divided into two parts, either the user can be the retailer or customer.

Admin:

* Register as an admin after one account is created.
* Check about any particular bike seller or customer.
* To block any account
* To update the status about any event
* To calculate the payment
* To make changes into accounts of users

Bikes:

* Provide a list of bikes on each rental shop for customers to choose from.
* Show the status of bikes as soon as it gets free or booked
* Showcase the information of the bikes i.e. model name, model number

Login:

* After registration, one can log in to the system either as the administrator/retailer or the customer. The option to register either an employee or customer is given when the user is registering. The interface of this system depends upon the registration.

User:

* As explained in the login section, the user can be of two types and both of them will have different interfaces.
* A user registered as a renter/retailer can update about the bikes that are free and can be given out on rent.
* If the user is customer, then he can see all the available bikes that he can take on rent.

Payment:

* Provide a payment option for the customers like M-Pesa

Map feature:

* This help customer locates the available bike rental stores/shop

1. High-Level Requirements

The system is a web based application; any device with internet access and a browser will be able to access it.

1. Deliverables

* Back-end software that is hosted in the cloud
* UI Prototype for both the user side and the admin side
* Admin web based application, accessible through specific authorization access
* Users responsive web based application
* User documentation manual
* Technical documentation.

1. Affected Parties

* Admin
* customers
* renter/ retailers

1. Affected Business Processes or Systems

* User registration
* Bike payment
* Bike renting

1. Implementation Plan

The project will kick off with the implementation of stubs necessary to enable development of the prototype.

After the stubs, the UI prototype will be developed. Once the prototype has been developed, the Jobike officials will go through it and approve of it. This stage is to ensure that all required functionalities have been factored and that the user experience (UX) is excellent.

After the UI prototype has been done, the stubs will be replaced with the business logic, starting with admins’ module, followed by users and bike module, payment module and then adding the map feature will be done last.

1. Timeline/Schedule

|  |  |  |  |
| --- | --- | --- | --- |
| No | Date | Description |  |
| 1 | 17/09/2022-21/09/2022 | One pager project documentation |  |
| 2 | 12/09/2022-28/09/2022 | Add items as per my one pager as tasks |  |
| 3 | 28/09/2022-4/10/2022 | UI prototype/wireframe |  |
| 4 | 5/10/2022 – 16/10/2022 | Admin module implementation |  |
| 5 | 17/10/2022- 22/10/2022 | Users module implementation |  |
| 6 | 22/10/2022-26/10/2022 | Bike module implementation |  |
| 7 | 27/10/2022-3/11/2022 | Payment module and map feature implentation |  |