

Project Profile

RentABike

Location:

USA

Project:

RentABike

Industry:

Privately held company

Technologies / Platform:

- IOT
- Java
- Android
- iPhone

Business Benefits:**Customer / Consumer**

- Smooth renting of bikes
- Easy tracking of bikes
- Remote Locking & Unlocking of bikes
- Notifications to Biker

Client

US based individual Jim Jennings wanted an app for his Bike Renting business. He had bikes with RFID sensors and GPS locks fitted. Wanted solution to manage their renting.

Business Needs

- To simplify Renting, Tracking and Controlling his Bikes
- Have a mobile app for Users to be able to rent the bikes, and make payment
- Have an interface to see all the rented bikes, track their location, send notifications to users and control the locking/unlocking of bikes remotely

RapidSoft's Role

- To develop Mobile apps for the users to rent the bikes, check payable amount due so far, get notified if he is trying to go beyond an allowed range.
- To develop an interface for Admin to see list of all the bikes on rent, locate them on map, get alerts if any bike is going beyond allowed range, see the payment status, remotely lock/unlock a bike, generate QR codes for his bikes

Solution Overview**Mobile apps for Users**

- User can sign-up providing his basic details like Name, Dob, Address
- They can login via Facebook, Gmail
- At any bike station, user can rent a bike simply by tapping on Rent a bike button and scan the QR code of the bike, provide tentative duration to rent keeping first 30 mins free and is shown calculated amount.
- Current timestamp is sent to the backend as the start time for that user keeping first 30 mins free for the user.
- Mobile app gives warning as notification if the user is trying to go out of specified range. In case the user ignores the notification, he is given a warning that the bike will be locked in 2 mins if he does not come back within range.
- He gets notified if he is reaching the end of the duration he specified.
- On returning, user can tap on Return Bike" button to see total amount to pay
- User can pay cash or via CC/DC/Paypal

Admin Panel

- Can see list of all rented bikes and track their location on a map and get notifications in case any of the bike goes out of a certain range
- Can send warning notifications before locking a bike
- See the payment due for all rented bikes
- Can generate QR Code for his bikes
- Can end the ride on behalf of users once they are back