

# IOS STUDENT PROJECT APP CHARTER

## AUTHOR

Author of this application is Vijay Murugappan Subbiah with Z-ID z1807314 doing his master's program at Northern Illinois university starting Fall 2016 and graduating Spring 2018. This application is my final project for my coursework CSCI627 at Fall 2017 semester.

## APP NAME

Application name is tentatively decided to be **“DIVVY BIKE RENTALS”**. The term “DIVVY” meaning distribution. It is an application for the bike rental company in Chicago “Divvy Bike Rentals”.

## APP SUMMARY

**“DIVVY BIKE RENTALS”** is a business based application which gives information about divvy bike rentals to general public for hourly rates, day rates as well as annual rates. It displays available bike rental stations in a map view with available docks clicking on it displaying the details of that particular station and navigating to that particular station. Implementing using grand central dispatch for processing the station web service in background queue and updating UI in the foreground.

## TARGET AUDIENCE

This application is targeted to adventurers or motorcyclists who would like to rent bikes for commuting inside the city or to mount it over car and going for camping or adventure tours. Targeted to all age groups since, everyone would want bikes to roam around a busy city rather than driving a car.

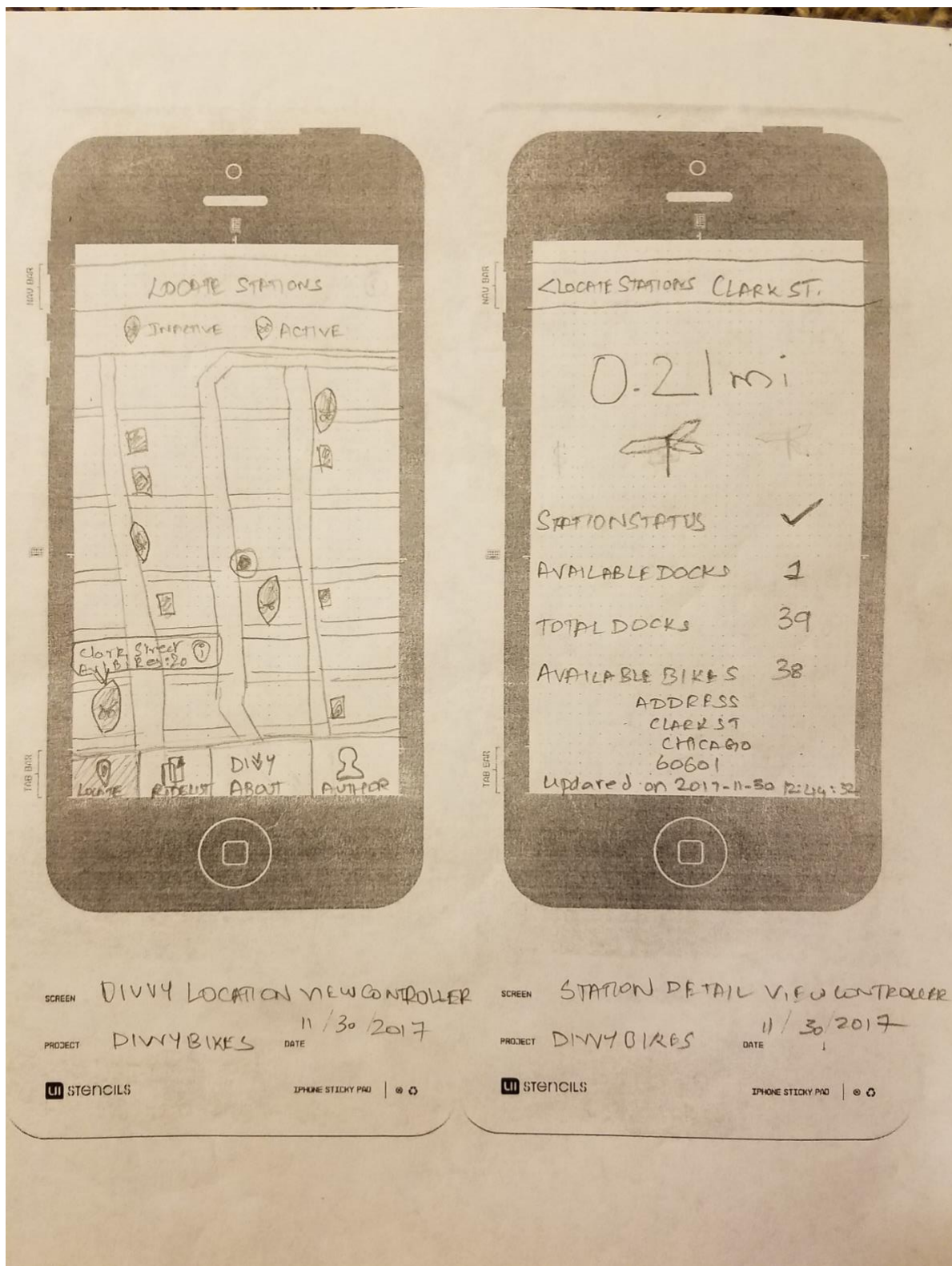
## FEATURE LIST

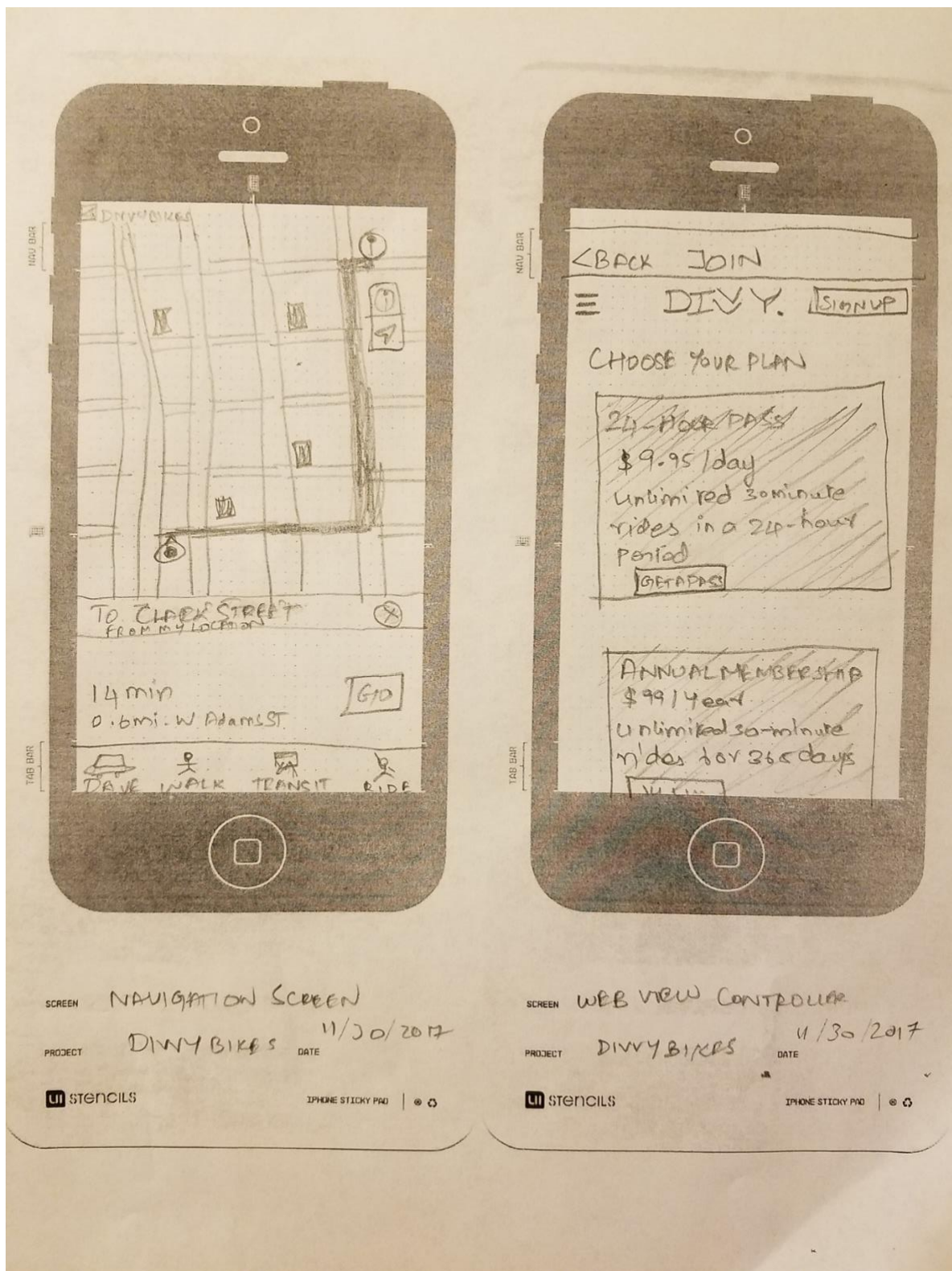
- Moving Maps – Navigation to bike rentals available nearby.
- Maps– To view all divvy bike stations in the U.S
- Find Divvy bikes near me – Asks user permission to turn on location services
- Real time availability – Shows updates of how many bikes are available for rent at specific location
- Pricing – Allows user to see membership pricing using web view to <https://www.divvybikes.com/pricing>
- Distance – Shows distance (in miles) from user location to a divvy station.
- Ride List – Provides popular ride list from divvy website.

## COMPETING PRODUCTS

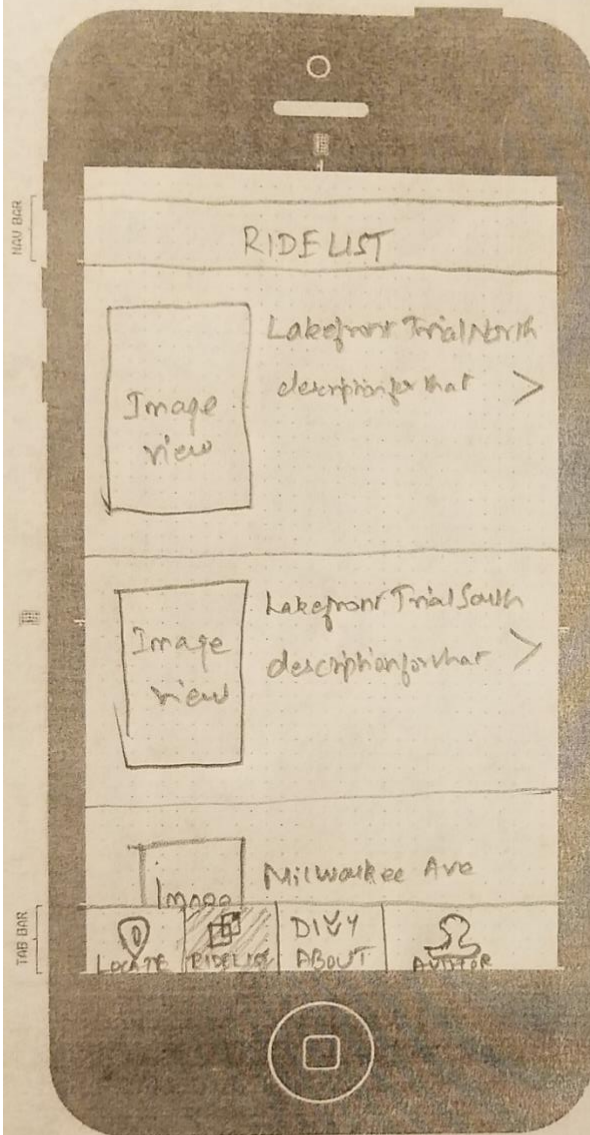
There are some bike rental applications in iOS like “*Spinlister*”, “*Zagster*”, “*Citi Bike*”. Spinlister is a peer to peer bike rental application which allows people to get in touch with each other through an application and rent bikes. Zagster is an application to rent bikes within the application itself receiving an unlock code which unlocks the bike from the app. Citi bike is also a similar bike rental application. Divvy bikes follows the minimalistic design of reducing the number of taps the user needs to perform to rent a bike at that station. It also gives us the recent updates on the stations (whether active or inactive, is renting or test station and amount of docks and bikes available at that station).

# LOW FIDELITY UI DESIGN









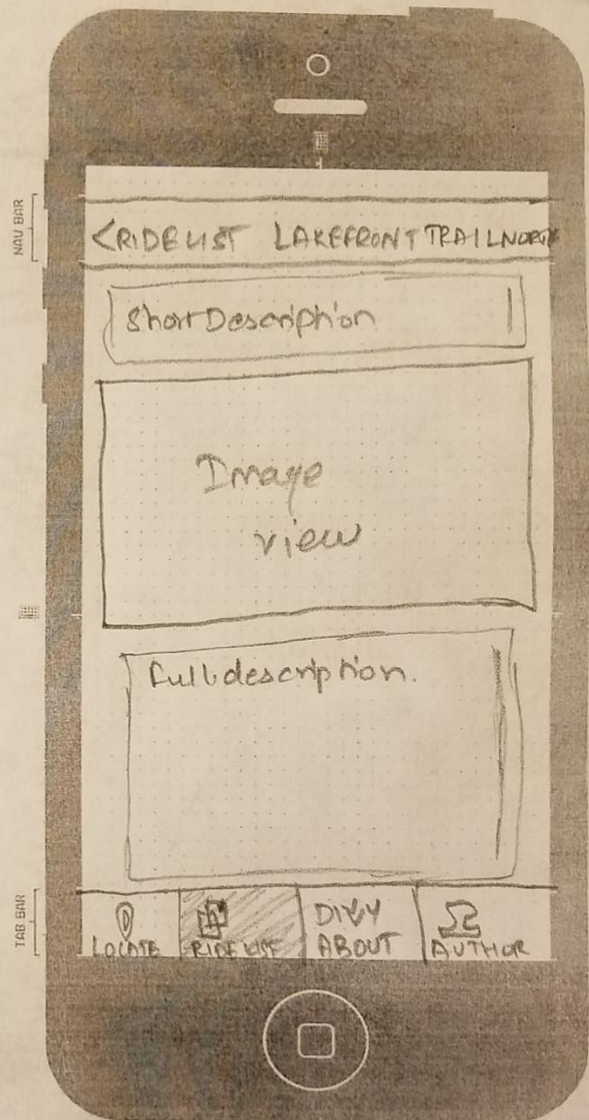
SCREEN RIDE LIST VIEW CONTROLLER

PROJECT DIVVY BIKES

DATE 11/30/2017

UI STENCILS

IPHONE STICKY PAD



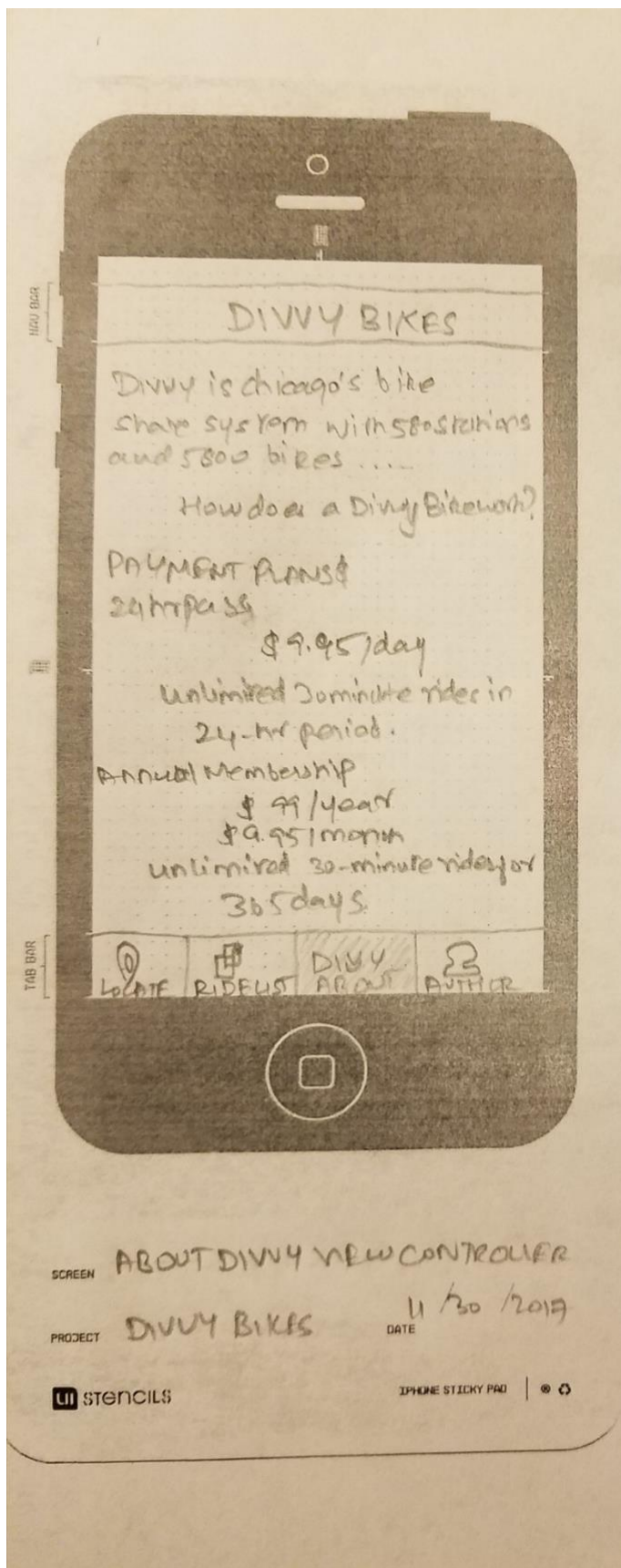
SCREEN ABOUT DIVVY VIEW CONTROLLER

PROJECT DIVVY BIKES

DATE 11/30/2017

UI STENCILS

IPHONE STICKY PAD



## FUTURE IMPROVEMENTS

- Adding Favorite bike rental stations
- Unlock bikes from application
- Popular trails nearby/Local attractions
- Asks users to suggest stations with reason