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# 

# Introduction

The following document outlines how we developed an application that was deployed to customers of the Dublin Bike network check for current and future occupancy. The application is a web application that helps users optimise their experience with Dublin Bikes.

The project had a 8 week timeline. In order to get this product developed in such a short timeline, we decided to use the Scrum methodology. We divided up the workload into 4, two week sprints. Using the principles of scrum, Stand ups, product backlog and review meetings, allowed us to achieve a considerable amount of work give the time frame.

Please read the following to get a better understanding as to how this was achieved. For demonstration purposes, screenshots of our various tools, drawings and minutes taken during meetings are attached when discussed. This is enough to get an understanding as to our team cohesion, but I encourage you to read explore the supporting documentation in their respective folders – versions are also provided to get a understanding into our progress.

**Website:** www.mydublinbikes.com

**Github:**

**Analytics:**

# Overview

## **Objectives of the App**

The objective of the app is to provide the Dublin bikes customers with a service that can: 1) Provide real-time data on the stations on the network, 2) Predict the occupancy of the station at a day and time specified the user 3) Provide information on how users can use the network.

One of the striking things about the current offering is the lack of attention to the users experience with it. We set out with a very clear objective – ‘to build a better, quicker and more user friendly alternative’. Because of this we placed a lot of weight to the UI/UX.

The applications predictive model is built on previous occupancy and other relevant features - this delivers an estimation on the number of bikes that will be available at that time. Given the nature of the service, weather is going to play an important role in the use. Based on that, we have also incorporated it into the model.

## **Target Customer**

* Talk about typical users
* Talk about the

## **App Functionality**

Please refer to the SRS for a more comprehensive outline

SRS

## **Structure**

## **Features**

*SRS*

## **Analytics**

* Talk about the models we looked into
* The predictions we are getting
* Some information about how we see this improving

## **Architecture**

A picture containing screenshot

Description automatically generated

# Execution

* Talk about the scrum methodology, attack screenshots of conversations / meetings / Product backlog across the sprints

# Reflection

## **Design Changes**

* Refer to slack & Stephen Notes

## **Forward**

General reflection on the project