

Digital Trinity Labs
Work Plan for the Bikechain Application

The Proposal

We are building an application on both the Android and iOS systems that will function as a waitlist tracker for a user who is waiting for their turn to use a drop-in station. The application for both systems will be completed by June 18th, and a prototype on the Android system will be completed and presented during the third week of development.

Application Functionality

When the application is opened up for the first time, the user will be required to enter their name and email address. If the name does not exist in the waitlist, the application will ask the user to input another name. If the name exists in the waitlist, the application will show the number of people ahead of them in the waitlist (before their turn arrives). This number will be updated every 30 seconds. Once there is one person ahead of the user in the waitlist, the application notify the client about this through a push notification. Another notification will be generated once it is their turn to use a drop-in station. The application's interface will display a five minute countdown timer, before which they must arrive at Bikechain's workshop in order to get their turn. Once the user's name is removed from the waitlist, the application will return to the initial display where it asks for the user's name.

Timeline of Work

Week	Description of Work
Week 1: May 21 st – May 28 th	This week we will set up the interface of the application. We will set up one screen where the user inputs their name and another where the user is provided the number of people in front of them, or a countdown timer if it is their turn.
Week 2: May 28 th – June 4 th	This week we will connect the different interfaces together through code and implement access to a Google Drive file through the use of Google Drive APIs provided by Google. The file will be used to count the number of names in the waitlist before the name entered when the application is first opened (presumably the user's name).
Week 3: June 4 th – June 11 th	Develop, test, and showcase a prototype for the application in an Android system.

	Make changes based on input from users after viewing the prototype.
Week 4: June 11 th – June 18 th	Implement the application for use by Bikechain users by accessing Bikechain's waitlist on Google Drive and testing the application on both the Android and iOS system.