

The background features abstract, overlapping geometric shapes in various shades of green, ranging from light lime to dark forest green. The shapes are primarily triangles and polygons, creating a dynamic, layered effect. The text is centered in the white space between these shapes.

Palisadoes Foundation  
Calico Challenge 2017  
Project: DoRoad  
Jhamali Vassell

# The Beginning

- ▶ I had little initial knowledge of the required languages and programming frameworks.
- ▶ I learned the language's basic features during the first few weeks with the help of my mentor.
- ▶ I used my initiative. I learned as I went along.
- ▶ My experience with other programming languages allowed me to progress smoothly and without much difficulty even though the concepts were new.



# The Beginning

- ▶ My mentor was Agyei Masters.
- ▶ He started the DoRoad project about half a year before
- ▶ He is a Computing student at the University of Technology(UTech)
- ▶ He is currently in his final year pursuing a Bachelors in Computing and a minor in Enterprise Computing.
- ▶ He is also the Student Branch Chair of the UTech IEEE club.

# The Beginning

- ▶ The framework used for the project was Ionic.
- ▶ A framework is specialized software which provides the generic functionality of a programming language, as well as other features which allow the user to use complex functions more easily.
- ▶ The Ionic Framework TypeScript/JavaScript
- ▶ JavaScript is the programming language used to add functionality to the different elements of the application.
- ▶ For the project, TypeScript is used, which was developed by Microsoft.
- ▶ This is a superset of JavaScript, meaning it provides the same functionalities as JavaScript, along with some additional features.

# The Project

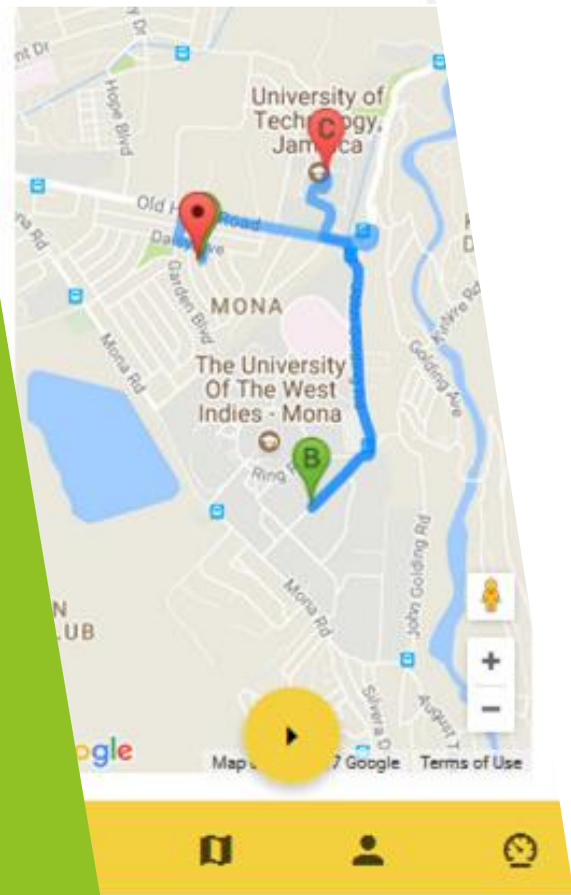
- ▶ For the Calico Challenge, I was chosen to work on DoRoad, one of two apps, the other being OneStop.
- ▶ DoRoad was made to be used by drivers, and OneStop by passengers
- ▶ These apps are intended to make the public interaction with transportation more efficient and simple, allowing them to charter vehicles, and track taxis and buses.
- ▶ The inspiration for creating this app was personal experience with the public transportation system in the country

# The Project

- ▶ Quite often one would be waiting for a taxi or bus to arrive for a lengthy amount of time with no idea how far away it is and how quickly it could reach.
- ▶ DoRoad aims to track the vehicles and provide a sense of relief for commuters while waiting.
- ▶ By tracking the drivers, it also allows the users to know which vehicle is closest to them, allowing them to make delays as small as possible when chartering.

🚶	Hugh	0.7k
🚶	Mira	2kn
🚶	Yuki	5km
🚶	Jace	13km
🚶	Suna	74km

CONFIRM




# The Project

- ▶ On the DoRoad app, the driver is able to see a list of passengers that would like to charter them from which they can select one or multiple if passengers choose the sharing option
- ▶ After approving their selection, a map showing the way to their destination will come up, which also provides text-to-speech direction.
- ▶ Each trip the driver makes is recorded, and they can comment on how it went.

# The Project

Previous Trips	
Yuki	2017-03-09 T00:45
Mira	2017-06-09 T11:27
Jace	2017-27-08 T17:03
Suna	2017-30-09 T21:38
Hugh	2017-29-06 T20:01



Previous Trips	
Yuki	2017-03-09 T00:45
Mira	2017-06-09 T11:27
Jace	2017-27-08 T17:03
Suna	2017-30-09 T21:38
Hugh	2017-29-06 T20:01

Options

Delete

Review

← review

Mira 2017-06-09 T11:27

Type here..







Details

Brand: Volvo  
Model: M500  
Capacity: 25  
Colour: Yellow  
License: 9843PP

Volvo	9843PP
Toyota	8305PP

# The Project

- ▶ It also displays possible passengers en route of the driver's destination.
- ▶ The driver is also able to register different vehicles they may own, to facilitate different size groups and purposes, which means more business for the driver

# The Project



- ▶ The project was initially done using Java, but was later changed to Ionic.
- ▶ This was done because a single Ionic applications can be used on different platforms, namely Android, iOS and Windows, which allowed us to avoid making several different applications for all users.
- ▶ After the application is made, the Ionic Framework provides function which will change it to a form compatible with a target platform.

# The Project

- ▶ The project went well for me for most of the period, with a few hitches as I went along. The version of the framework used for the project was fairly new, released about a month and half before we began.
- ▶ This was decided on to ensure we have all the latest features available so the app wouldn't lag behind in terms of modernity.

# The Project

- ▶ As the project progressed, I had regular interactions with my mentor and others working on the OneStop app.
- ▶ We discussed the progress and what feature to add next as each was finished.
- ▶ Several different tools were used to allow to be as efficient and fast as we could be, such as Trello for giving out tasks, and Google docs for progress reports.

# The Project

- ▶ The documentation for the framework was not complete, so as new tasks were given, I would have to spend a fair amount of time searching for helpful sites, which was somewhat time consuming.
- ▶ Since the framework was new, there were not many helpful results initially.

# The Project

- ▶ Ionic uses web technologies, for which I could find many helpful articles, but they were mainly written using JavaScript.
- ▶ The semantics of JavaScript and TypeScript are somewhat different.
- ▶ As I got used to the framework, it became easier and after a while I figured out how to edit the JavaScript code to work for the project.

# The Project

- ▶ The process of creating an application in the newest version of the framework was fairly different from the older version, but had the benefit of being faster.
- ▶ Though it was faster, it still had issues, and had several updates in the short period I was using it.
- ▶ Having a few setbacks is fairly normal, and my mentor assisted in resolving many of them, but because this was new, there were some issues I just had to deal with.
- ▶ Overtime, I found fixes for the problems I had during the project, and after about halfway through, I was no longer hindered by any framework issues.

# The Meetups



- ▶ Several Meetups were facilitated, each at the end of the month. The first two were at RealDecoy Global Services, and the third at the JPS Head Office.
- ▶ The meetups were a very nice part of Calico. It allowed us to interact with professionals in our field in prospective places of employment, and also other participants of Calico.
- ▶ The meetups began with a panel discussion on some topic or a few related to our line of work, headed by professionals with personal experience.
- ▶ This made the Calico project not feel impersonal, provided us with useful knowledge for the future, and assisted us with networking.





# The End

The Calico experience was good one, and I would recommend anyone intending to take up software development as a profession to apply for it, as I intend to do again next year. The experience through this program has been extremely helpful, and I now have a better idea about the professional side of software development. The program was not very intensive, so even if a participant doesn't have years of experience, the pace will allow them to catch up rather easily, along with assistance from their mentor, and they will definitely come out of it a much better developer.