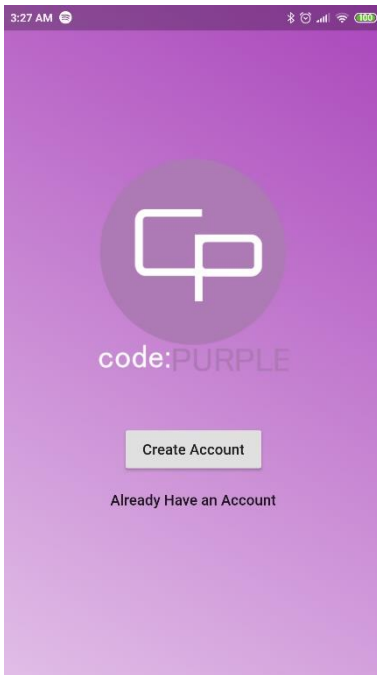


# Code:PURPLE

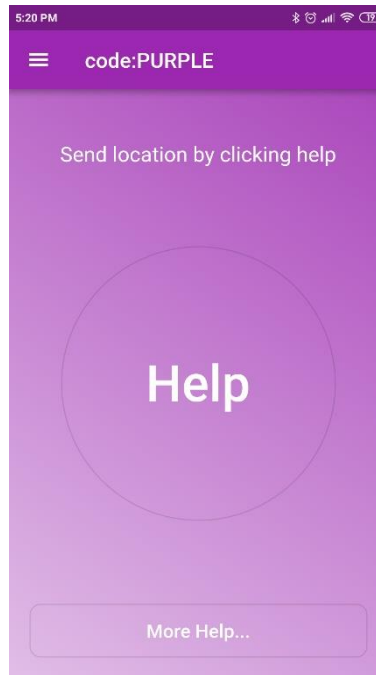
**By:** Liam Sharpe, Tatiana Ermakova, Neha Nand

**Adviser:** Chaliner Baliuag

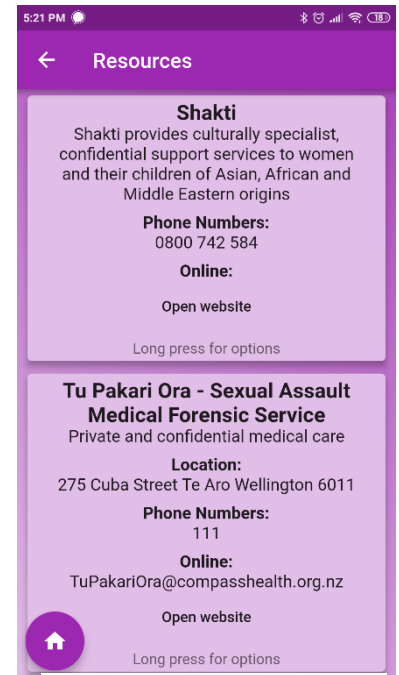
**Client:** Tracy Mitchell



Login Screen of the Application



Home Screen



Resources Screen

## Introduction

New Zealand is a small country, but despite this, it has still managed to be ranked as the best country to live in the past. However, one thing that we shouldn't be proud of as kiwis is that New Zealand is one of the highest ranked countries in the world for domestic violence and abuse. This needs to change.

The Code:PURPLE application is designed to allow victims of domestic abuse to quickly and safely call for help from the people they trust the most. The simple interface sends a message with the victim's location to their selected contacts at the tap of a button.

The application also contains resources for where the victims can get more help. This is an essential part of the application as it has all the information for over 15 help centers around the Wellington region.

## Development

The first decision to make in the development of the application was what methodology we wanted to follow. After a lot of research, we opted for OpenUP due to its ease of use and flexibility.

Next, we needed to design the application. We ran the systems analysis and design phase alongside the development to get instant results and speed up the process of development.

The application itself was developed in Flutter, a new framework by Google which allowed us to develop the code once but generate an application for Android and iOS. It is quite a new framework but worked really well for our application.

The database used was Google's Firebase. This worked well as it is a simple document store database and since both the database and application framework were created by Google, they worked flawlessly together.

Unit, widget, integration, and user acceptance tests were all run on the application to make sure it was up to a good standard.

## Conclusion

The application was delivered to the client successfully and on time and was met with great results. It is ready to go onto the next phase and eventually be deployed.