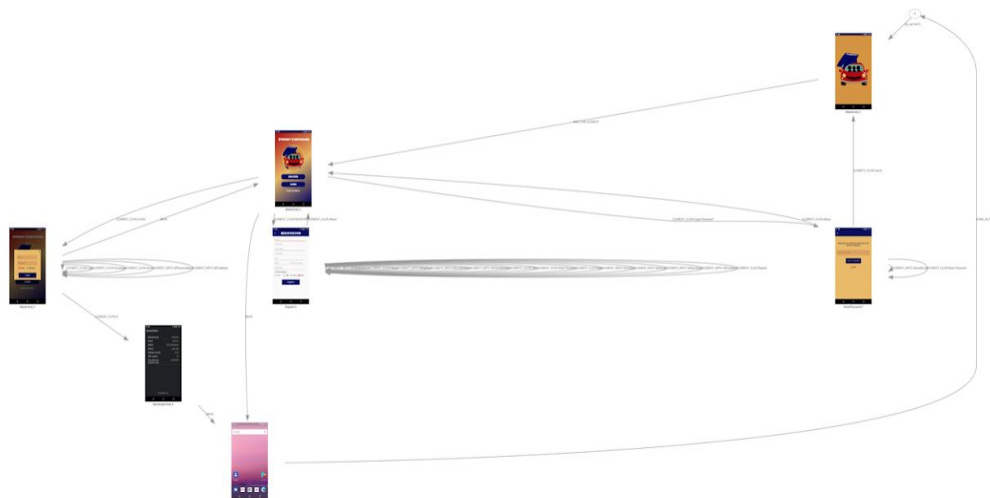# Firebase Test Lab
Robo Testing

For this phase of testing, we used the Firebase testing lab. The tests conducted comprised of a 'Robo Tests'. Here, we first had to build an APK for our app and upload that generated APK file to the firebase console and selected the various different devices to be used. We chose to carry it out among 6 different devices. The purpose of this was to test the compatibility of our application across a multitude of devices, screen sizes and API Levels. This Robo test included three activities: Login , Registration and Reset Password, along with the showing of our splash screen. It ran those activities within our chosen devices and searched for any bugs and reported any errors or crashes.
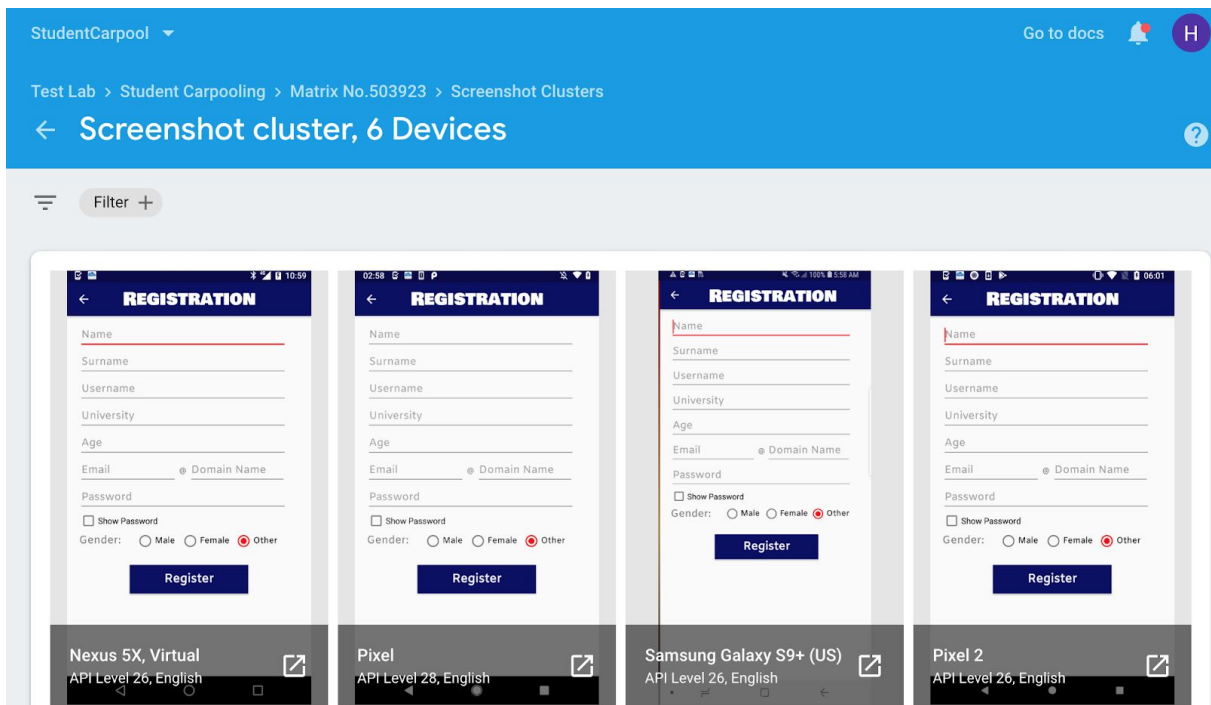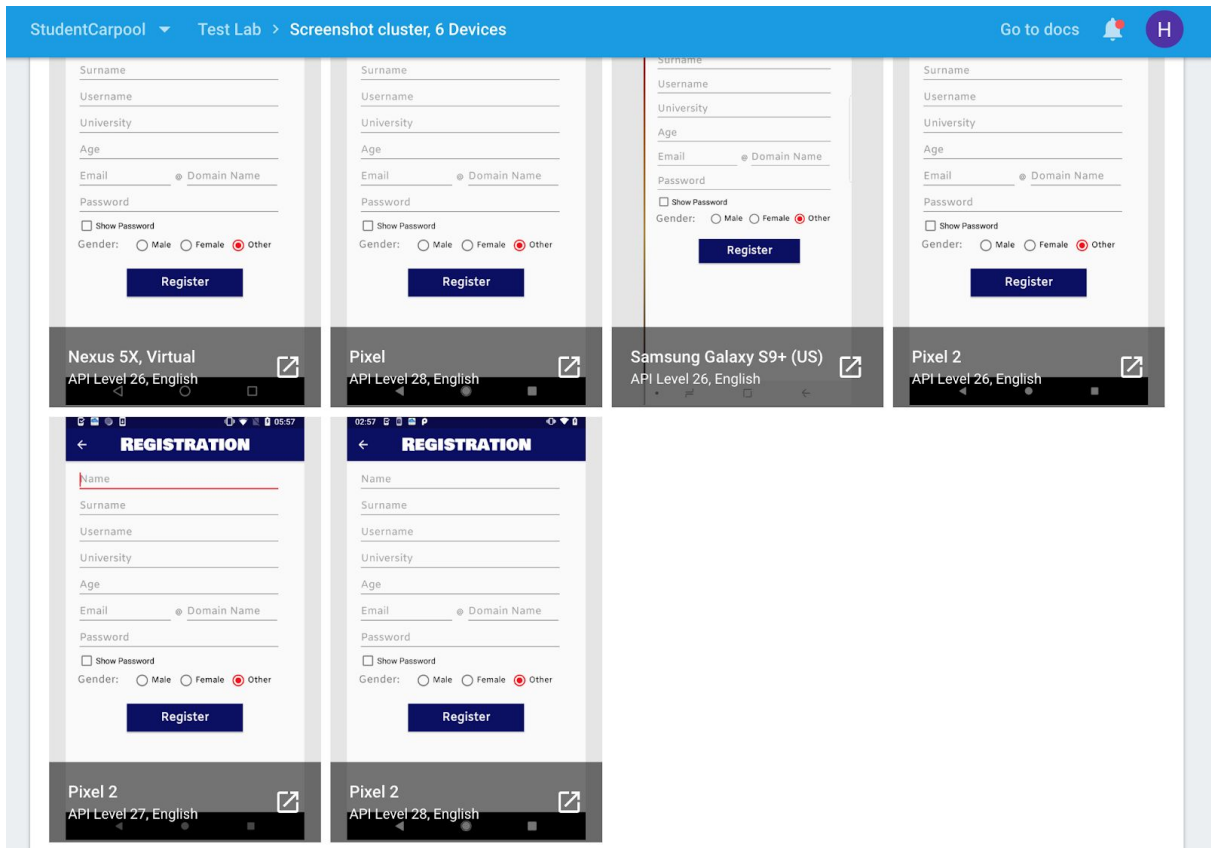
Despite test code for the robo test not being mandatory, it still ran the app activities automatically and the test results included screenshots, videos and logs. It also informed us on the time taken by each device to perform the activities.

Below show the screenshots from those results and confirmed for us that the installation and compatibility among the various API levels and screen sizes was a success.
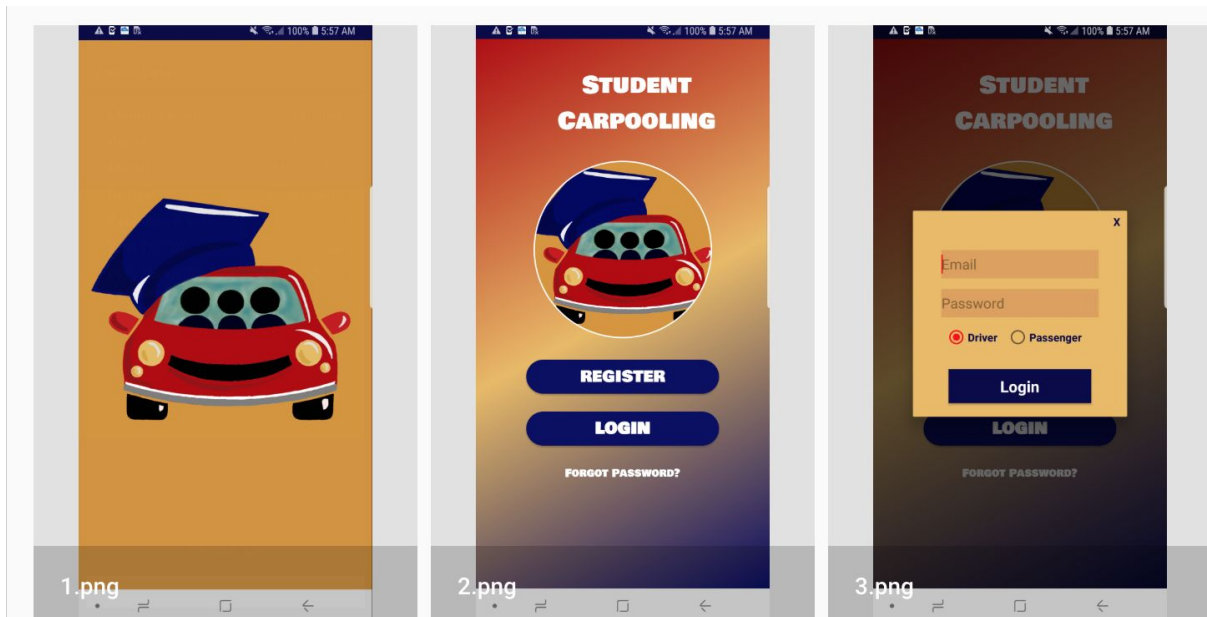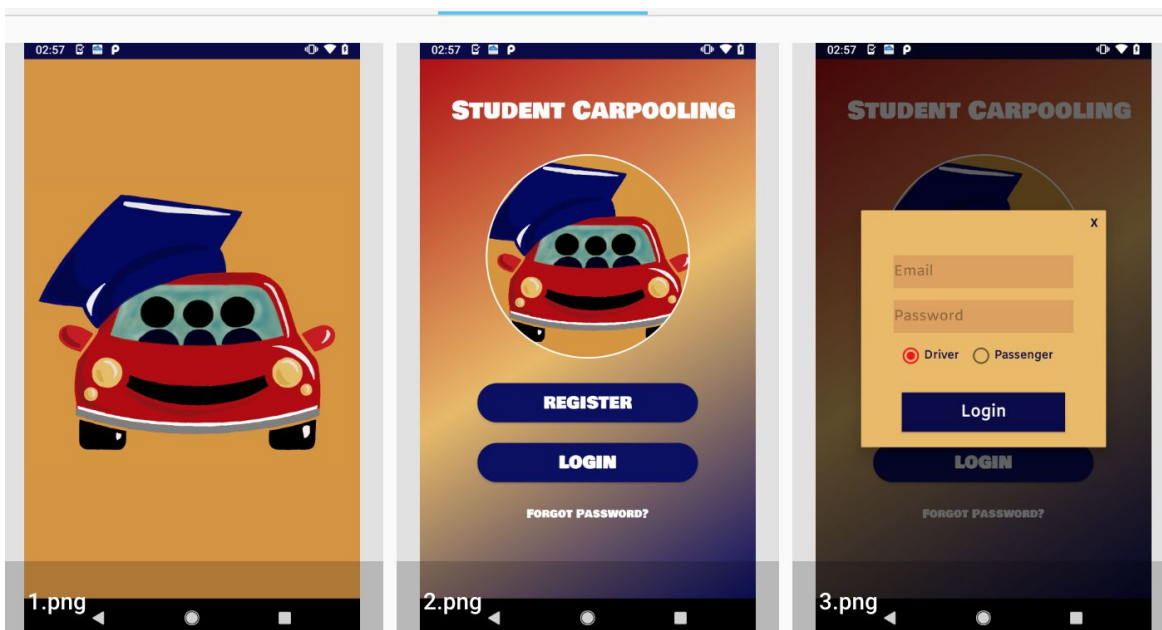
Crawl graph

- The above photo shows the activities in which the robo test explored.

Nexus 5X, Virtual
API Level 26, English

Pixel
API Level 28, English

Samsung Galaxy S9+ (US)
API Level 26, English

Pixel 2
API Level 26, English

Pixel 2
API Level 27, English

Pixel 2
API Level 28, English

StudentCarpool ▾

Go to docs 🔔 H

Test Lab › Student Carpooling › Matrix No.503923 › Screenshot Clusters

← Screenshot cluster, 6 Devices

Filter +

Nexus 5X, Virtual
API Level 26, English

Pixel
API Level 28, English

Samsung Galaxy S9+ (US)
API Level 26, English

Pixel 2
API Level 26, English

● The above pictures shown the Registration activity across the 6 devices.

1.png   2.png   3.png

- The above images show that on some of the devices, the title on our main activity was not positioned correctly so we adjusted it. See below for the final result.

1.png   2.png   3.png

← **Robo test, Samsung Galaxy S9+ (US), API level 26**

✔ Passed   📅 08/03/2019, 10:55   ⏱ 58 sec   ◇ Portrait   🌐 English (Ireland)   **Test results** ⬈

Robo	Logs	Screenshots	Videos	Performance

Crawl duration   **Crawl stats** ⓘ

	Actions	Activities	Screens
53 s	43	3	7

- The above image shows the performance time of the activities.