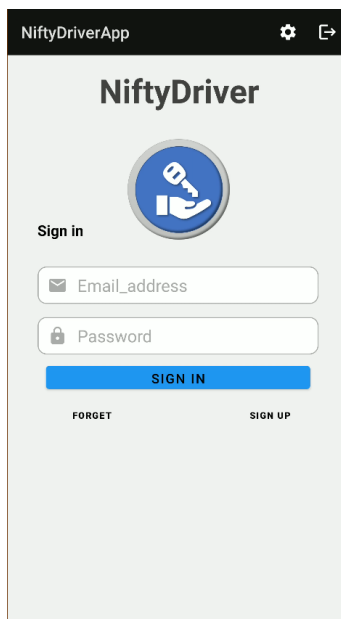# 1. Interaction with NiftyDriver App

NiftyDriver is an application designed for novice drivers that are in the process of learning, who just obtained their driver's license or those who are exploring to improve their driving skills. This application provides useful information about your driver's performance. It combines artificial intelligence to read your driving style and score every trip you do. You will be able to check and compare trips to learn and get feedback about your performance.

1.1 Login

Sign-in Page: this page allows the user to sign in to the app and counts with the option to sign in and forgot the password.
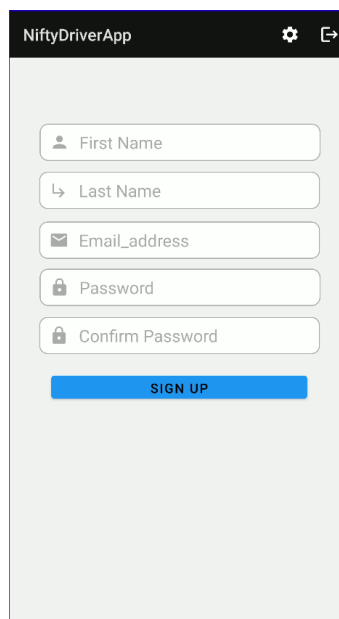
Forgot Password Page: Option to help the user to sign in if the passport is forgot

Sign up: help the user to sign up with key details to start using the application
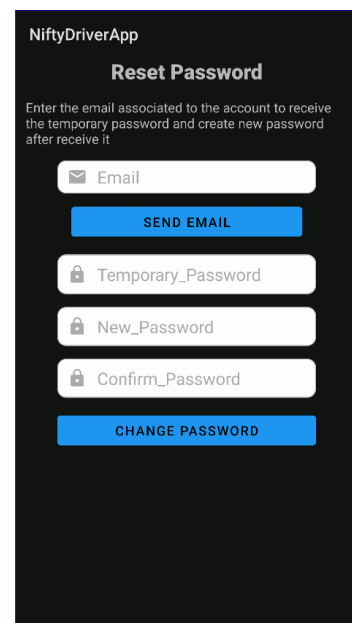

Figure 1.Sign in Page

Figure 2. Sign up Page

Figure 3. Forgot Password

1.2 User Settings

Setting Page: This page helps the user to change details about the account and provides helpful information about the application.

Change details: there are 3 options where the user can change details about their account, name, email, and account.

About application page: this page informs the user about what the application does, and also has 3 options, terms and conditions to support the user and developer in the use of the application. The user Guides option provides helpful information about the data that is shown on different pages across the app. Finally, the option contacts us to write to the developer comments.
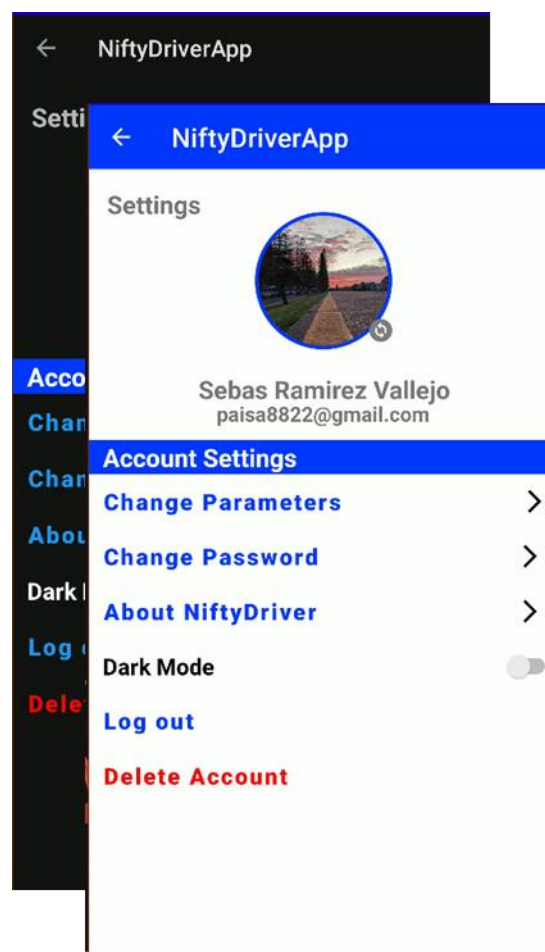

Figure 4. Settings Page

Figure 5. Change Profile details

Figure 6. About application page and subpages

1.3 Profile

Profile: It is the first page that users found when signing into the app. At the bottom are the main functions record trip, trip view, and My trips. The profile shows the user the score and summarizes the following information:

- **Acceleration**: it is a score that indicates how hard you accelerate. To keep the score high, the user must accelerate at a pace way.

- **Breaking**: it is a score that indicates how hard you press the break. To keep the score high, the user must press the break-in pace way.
- **Cornering**: it is a score that indicates how hard you turn in a corner. To keep the score high, the user must turn in a pace way.
- **Speed**: It is the average speed you did in your trips.
- **Target Score:** The Score indicates a number in the range 0-100. Where 0-40 – low, 40-80 – Medium, and 80-100 high, the user must target a high score.
- **Trips:** indicates the number of trips that the user has traveled.
- **Kilometres:** Indicates the number of kilometres that the user has travelled.
- **Hours:** Indicates the number of hours that the user has travelled
- **Score bar view:** it is an optional view that the user can see the results of acceleration, braking, cornering, and speed
- **Graph View:** it is an optional view that the user where see the results of acceleration, braking, cornering, and speed.

Figure 7. Profile page option Score bar
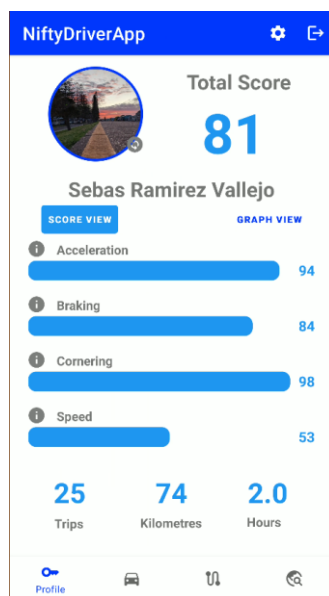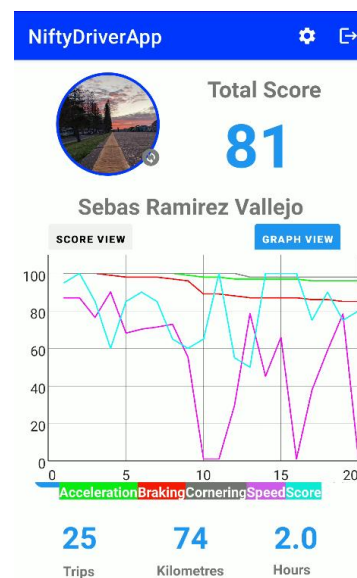

Figure 8. Profile page option Graph

1.4   Record Trip

Record Trip: when is pressed record trip change to a basic page with a single button to start or stop the trip, this page will also show the calibration sensor which means that the user should be positioning the phone until reaches a green cross. This page also shows the kilometres and minutes, or hours travelled.
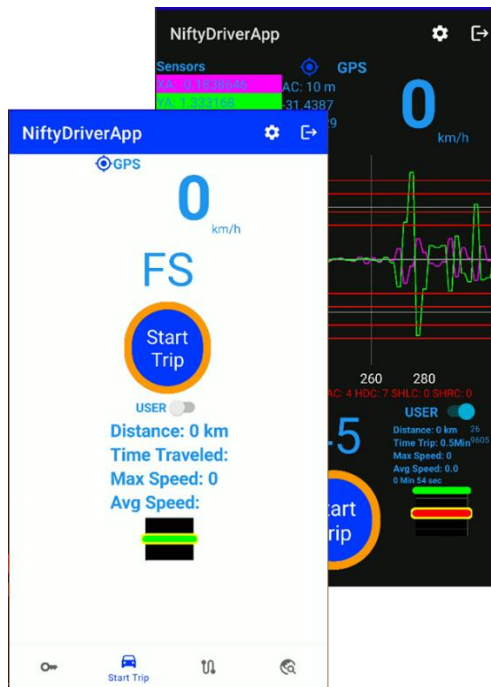
Figure 9. Record Trip option start trip

1.5 Trip View

Trip View: this page shows the last or chosen to summarize trip view integrated with google maps view to enhance the information that the user must review**,** the map contains breaking points that the user can press to see detailed information. , they

vary between hard acceleration , hard braking , or sharp cornering or lane , you are able to click on them to see feedback according to this items. It also shows general information about specific trips such as score trips, kilometres, minutes or hours, acceleration, braking, Cornering, and speed explained on the profile page. Optional Graph View is also available to interpret the data. Finally, the Optional trip view allows to the user change horizontally the recorded trips.

Warning Overview: it is shown when the user presses the flag to see detailed information and feedback about the information recorded in that breakpoint. The scores shown are the same to maintain the minimalistic way to show the information.
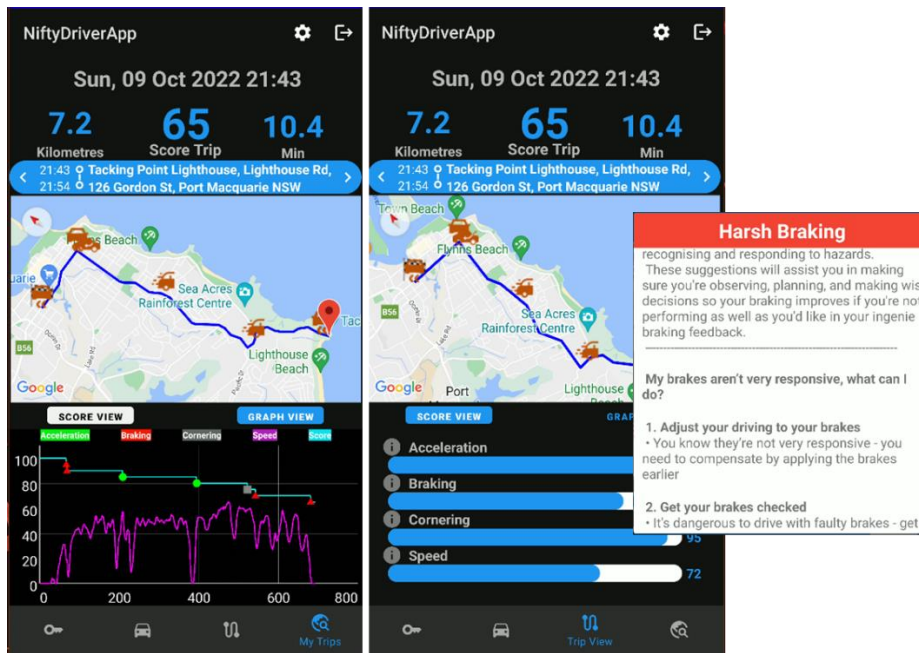
Figure 10.Trip View and Overview breakpoints

1.6 My Trips

My Trips View: this page shows the trips recorded with the option to search any trip you want to explore; the user can press any to see the details of the specific trip. The information shown in every option is the time travelled, start place, end place, and the score obtained in this travelled. On the top is shown the current summarize score including trips, kilometres, and time.
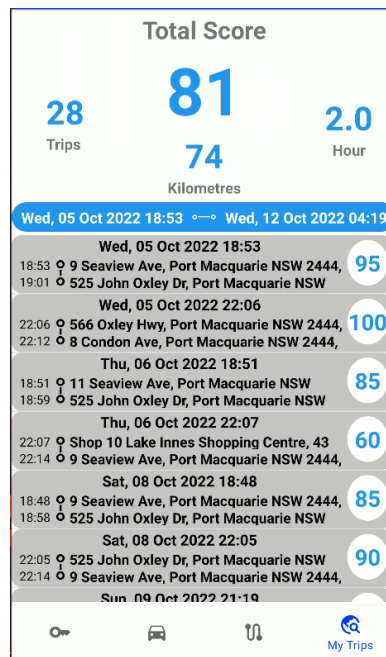

Figure 11. My Trips View