

# 1. Interaction with NiftyDriver App

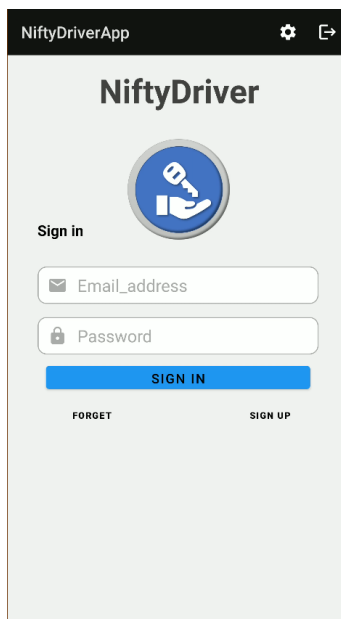
NiftyDriver is an application designed for novice drivers that are in the process of learning, who just obtained their driver's license or those who are exploring to improve their driving skills. This application provides useful information about your driver's performance. It combines artificial intelligence 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.

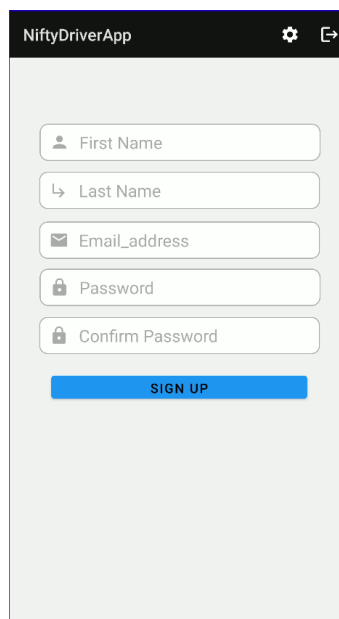
**Forgot Password Page:** Option to help the user to sign in if the passport is forgot

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



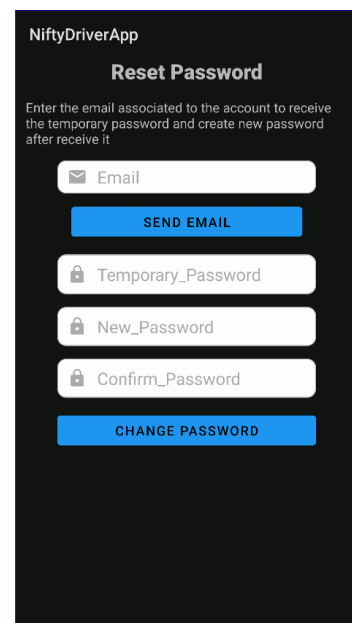
The Sign in Page features a dark header with the app name 'NiftyDriverApp' and icons for settings and navigation. Below the header, the app name 'NiftyDriver' is displayed in a large, bold font. A circular logo with a key icon is positioned to the right of the 'Sign in' text. The page contains two input fields: 'Email\_address' and 'Password', each with a corresponding icon (envelope and lock). A blue 'SIGN IN' button is located below the password field. At the bottom, there are two links: 'FORGET' and 'SIGN UP'.

Figure 1. Sign in Page



The Sign up Page has a dark header with the app name 'NiftyDriverApp' and icons for settings and navigation. The page contains five input fields: 'First Name', 'Last Name', 'Email\_address', 'Password', and 'Confirm Password', each with a corresponding icon (person, location pin, envelope, and lock). A blue 'SIGN UP' button is located below the 'Confirm Password' field.

Figure 2. Sign up Page



The Forgot Password Page has a dark header with the app name 'NiftyDriverApp'. The page title is 'Reset Password'. Below the title, there is a text prompt: 'Enter the email associated to the account to receive the temporary password and create new password after receive it'. The page contains three input fields: 'Email', 'Temporary\_Password', and 'New\_Password', each with a corresponding icon (envelope and lock). A blue 'SEND EMAIL' button is located below the 'Email' field. Below the 'New\_Password' field, there is a 'Confirm\_Password' field and a blue 'CHANGE PASSWORD' button.

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.

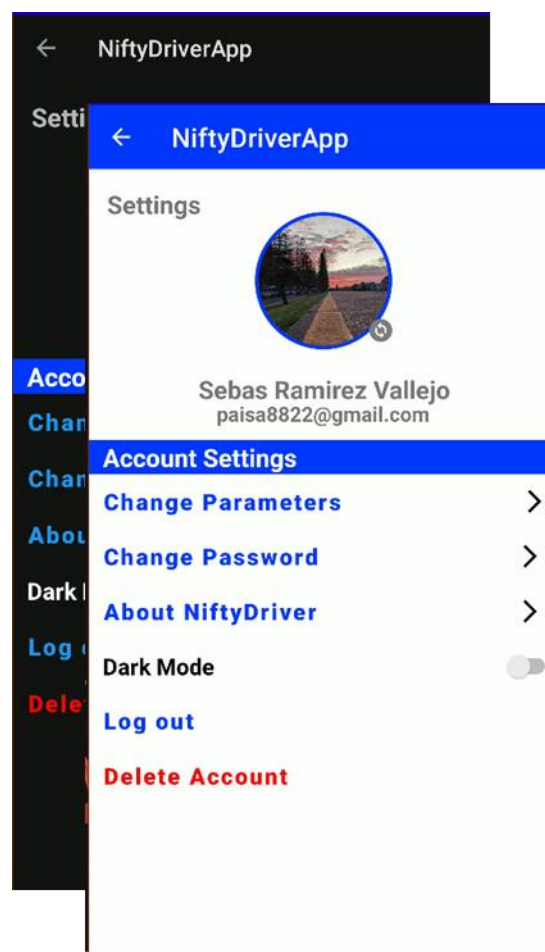


Figure 4. Settings Page

← NiftyDriverApp

FORGET PASSWORD

UPDATE VALUES

← NiftyDriverApp

FORGET PASSWORD

CHANGE PASSWORD

Figure 5. Change Profile details

← NiftyDriverApp

User Guide

**Application Functions**

This application provides feedback on acceleration, deceleration, cornering, and braking. It is useful to everyone who is starting to learn to drive. The system is based on a scoring system that evaluates your performance for every trip that you do and averages all the performance scores on the profile screen, you can check with the different functions you evolve and feedback when you desire.

The app count four screens Profile, Start Trip, Trip View, and My trip to interact.

**Profile screen:**

Average of all your performance and 2 modes of visualization of Acceleration, Braking, cornering, and Speed, one is a score view with a progress bar that indicates the average performance, and a graph view to visualize the performance in a form of a graph. This screen also counts with the option to change your picture profile. Finally, this also shows your total number of trips, the total number of kilometres travelled, and the total travel time.

**Start Trip:**

This screen counts with a GPS indicator, you can not start a trip until you allow permissions and get an initial position, this screen counts with a speedometer, Graph maneuver visualization and result section. You may check your volume since it has a sound maneuver detector. So, you will know when you are

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Contact Us

Message

SEND

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Terms and Conditions

**AGREEMENT TO TERMS**

These Terms and Conditions constitute a legally binding agreement made between you and the developer.

Please make sure you drive carefully, follow all traffic laws and speed limits in your nation, and stop in a secure location before you take your measurements. Do not race or use the system for excessive speed. While driving, avoid looking at the display. Nifty Driver App is not liable for any harm done to people or property of any type. The Nifty Driver App Company disclaims responsibility for any smartphone issues or data loss brought on by using the app. You do it at your own risk when using this application. Actual values and measurements may differ. Values can change and fluctuate depending on a variety of factors.

**Data privacy information:**

This app only stores data locally and makes it available through the app or direct access to the phone file store. It does not share driving or performance data with any servers. For the purpose of replaying a driving session to the driver, geographic positions are used to record the session. No

← NiftyDriverApp

About NiftyDriver

NiftyDriver is a powerful tool to who is starting to learn to drive. This application provides useful information about your driver's performance. It combines artificial intelligence to read your driving behaviour and score every trip you do. You will be able to check and compare trips in order to learn and get feedback about your performance.

USER GUIDE

CONTACT US

TERMS AND CONDITIONS

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.

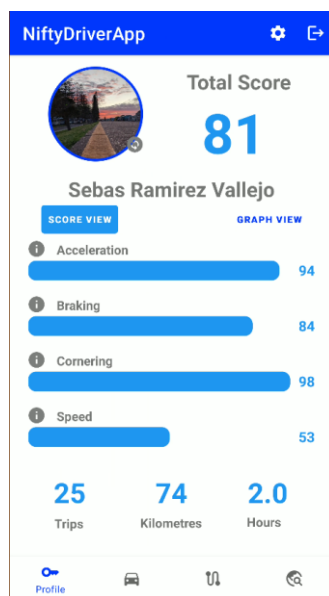


Figure 7. Profile page option Score bar

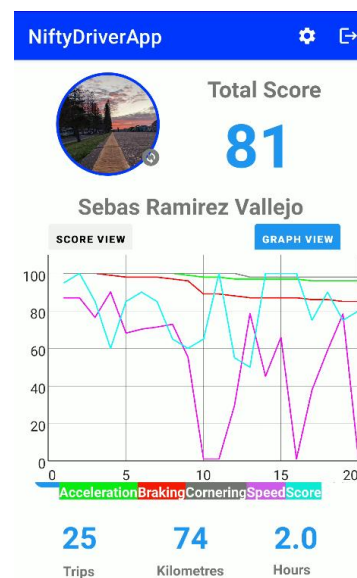


Figure 8. Profile page option Graph

## 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.

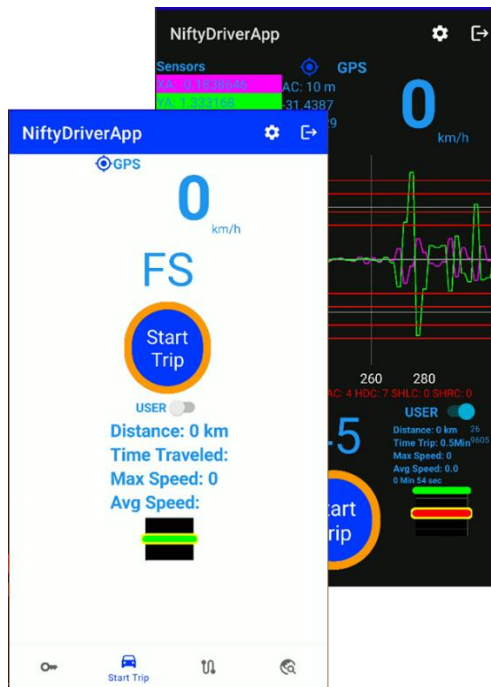


Figure 9. Record Trip option start trip

## 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.

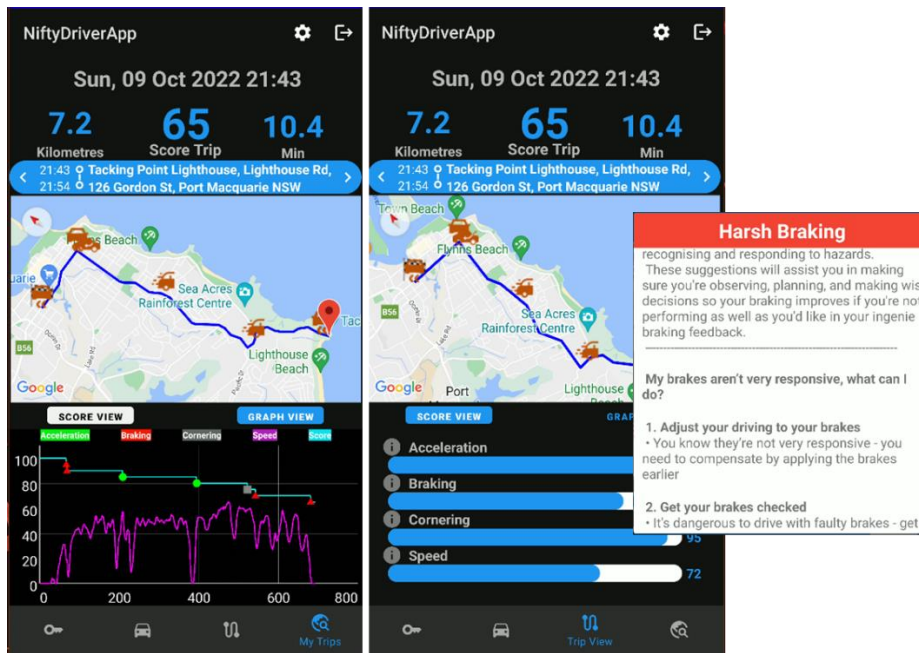


Figure 10. Trip View and Overview breakpoints

## 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.

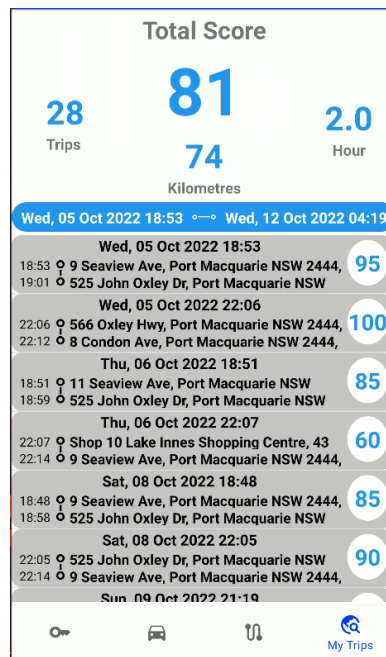


Figure 11. My Trips View