User Manual

HAZARD HUNTER

Group 20

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Content

1. Introduction

The number of deaths due to accidents has increased a considerable amount over the years. Drivers not being able to identify the road signs have a major contribution to these accidents. Also, not having anyone to help the injured person has increased the number of deaths in a considerable way.

"Hazard Hunter" can detect accidents, create awareness among users when accidents happen, keep users alert about road signs, and notify emergency contacts.

This product has main two components. The hardware device and the mobile application. The hardware part of the product will be mainly used to detect accidents and sending notifications to emergency contacts. By using the mobile application, the users will be able to register to the system and start using the device. Also, users will be able to see the accidents that have happen and if they want, they can send help or they view trouble free routes for when they are going for important events.

Also, a website will be provided for the system admins to view current details about the users, accidents and other important details.
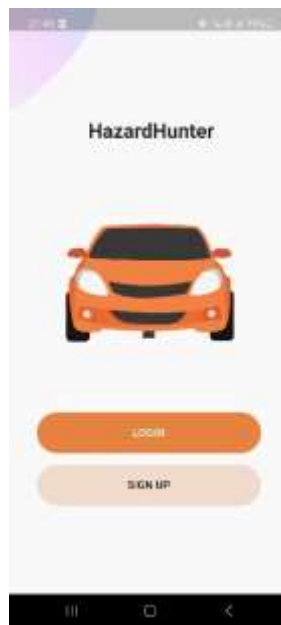
2. Mobile Application

2.1. About Mobile Application

The mobile application of "Hazard Hunter" provide the functionalities that are needed to complete the working process of the system.

Registering the users to the system, assigning a particular device to a user, getting information about the emergency contacts, showing users the accidents and, many more features are supported by this application.

The usage of each feature in the application is described below.

2.2. Get Started

When you download and install the app, open it. It shows the start page below when opened. Here, you can see the login and sign-up options. If you are a new user and doesn't have an account click on the sign up option and if you already have an account, click on the log in option.

2.3. Login

When logging just enter your email and the password and login to the system.

2.4. Sign up

If you are a new user to the system and, doesn't have an account yet use the sign up option. It will direct you to a window like shown in the below image. Enter your preferred email and a password and sign up to the system.

2.5. Registering the Device

To register the hardware device that you bought to the system, scan the QR code provided in the device.

After scanning the QR code the app will show a verified notification like shown in the below figure.

2.6. Getting User Details

After scanning the QR code and verifying the device you will be directed to a window where you'll have to enter your details. There, Enter you first name, last name and the emergency number you prefer.
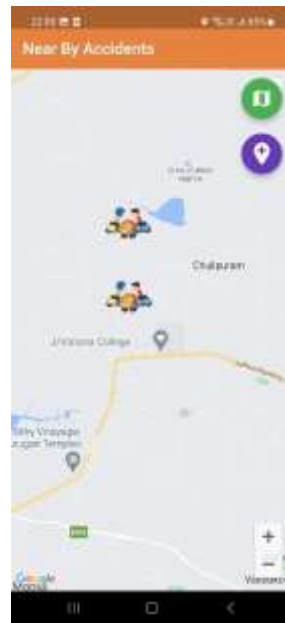

Now you are ready to go!

2.7. Options Available in the Application

After getting registers to the system successfully you will see the below window in the application. There are 4 main options available for you.

- Viewing nearby accidents.
- Viewing and editing the user details.
- Get the directions to a location.
- Connecting the customer care.

➢ Viewing nearby accidents.

➢ Viewing and editing user details.

➢ Get the directions to a location.

To get the directions to a particular location, enter your current location and the destination location. The app will show all the accidents in your available paths, and you can select any preferred path you want.

➢ Connecting the customer care.

3. Hazard Hunter device

3.1. How to use the device

Place the device inside your vehicle where there is minimum interruption to the device and the camera in the device will be able to capture the road in front of the vehicle (For detecting the road signs the road signs should be visible to the camera).

Plugin the speaker/ headphone and the power to the device using the relevant ports provided and now you are ready to go!