SmartRoad Nareme

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Introduction

About the App

This application is simply a prototype of a larger application, its main function is to notify the car driver user about the close encounter he will have with a bicycle, so that he can take the necessary precautions

Feature Highlights

Among the highlights of the functions, the free choice to decide what type of user you are, whether you are a bicycle user or a car user, stands out, since you can log in mainly as a bicycle and then get in a car and log in as a car

Supported platforms

This prototype will be available for phone (Android and IOS) and for PC

User Interface Overview

Starting screen

Once you open the app, it will appear a loading screen with an animation, as it shows below:

SmartRoad

ITC/IES El Rincon

Then you have to wait a little, and when the app is ready, you will have this home page, where you can decide which vehicle are you driving:

SmartRoad

What are you driving?

Bicycle

Car

Are you an admin?
Log in here

Menus and navigation

As you could see on the home screen, there are two main buttons, one where you decide to be a cyclist, and another where you decide to be a car driver, let's first try entering as a cyclist
First, it will ask you to let the app access to your location:

Menus and navigation

¿Permitir a localhost:3000 acceder a su ubicación?

Saber más

☐ Recordar esta decisión

Permitir (A)   Bloquear

Bicycle

Car

Are you an admin?
Log in here

Once you allow the app to access your location, you will be redirected to the bicycle page, where it appears a message telling you that you are logged as a bike, this will be tracking your location and warning another

car users in case they match with you:

←

SmartRoad

You are now logged as a...

Bicycle

Now every car user will be warned in case that they are near you.

As well, you can log as a car, let's try it.
It will ask you to allow the access of your location too:

¿Permitir a localhost:3000 acceder a su ubicación?

Saber más

☐ Recordar esta decisión

Permitir (A)   Bloquear

Bicycle

Car

Are you an admin?
Log in here

Once you allow the location, it will do the same feature as if you are logged as a bicycle, it will be tracking

the your location until your location matches with a bike's location:

←

SmartRoad

You are now logged as a...

Car

Now you will be warned in case that a bike passes near you.

Also, if you look below, you have a part where you can log as an admin if you have the username and the

password of one, if you are an admin and you log, you will have some tables of information about all the app, as tracks, vehicles, admins and logs. Below you see everything related with the admin feature:

SmartRoad

What are you driving?

Bicycle

Car

Are you an admin?
Log in here

Once you click on Log in Here, it will redirect you to a login page where you have to put your password and username to enter:

←

Login

Username:

Password:

👁

Did you forget your password?

Login

You have this page one you log, where allows you to navigate through all the tables:

Tracks   **Admins**   **Vehicles**   **Logs**

Add New Track

Track nº	Location	Status	Speed	Extra	Vehicle	Actions
1	28.0953529, -15.4390254	Stopped	0	null	1	Edit
2	28.0953529, -15.4390254	Stopped	0	null	2	Edit

Icons and buttons

The icons of buttons of this app are very simple, if you see on every page that you can navigate, it has an arrow pointing backwards, allowing you to navigate to previous page, the icon is this:

Then, in the admin page, you have so many buttons where you can do these features:

-Add buttons: In some tables you can manually add some registers on the database (on the test version)

Add New Track

-Edit buttons: In some tables you can manually edit some registers on the database (on the test version)

Edit

-Delete buttons: In some tables you can manually delete some registers on the database (on the test version)

-Admin profile picture button: This button allows the current logged admin to edit himself, his password, his username and also his profile picture:

Functions and features

Principal functions

The main functions of the application are the following:
-Progressively save the location of a specific vehicle in the database to be able to notify the car driver user.

-Meanwhile, the administrator can access and perform CRUD operations on the database tables using the view provided once the admin is logged in.
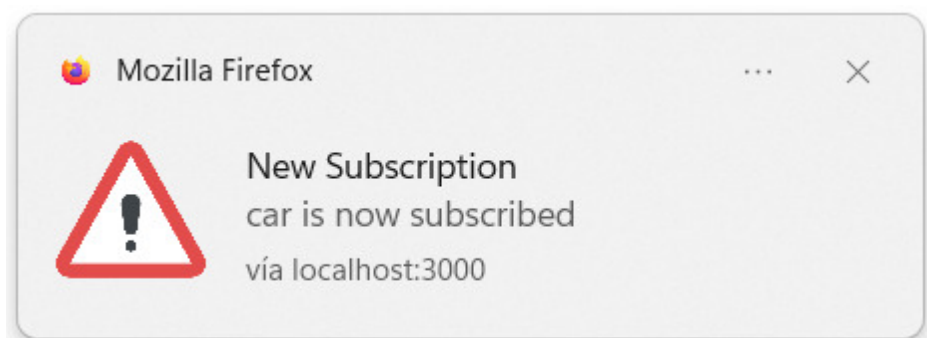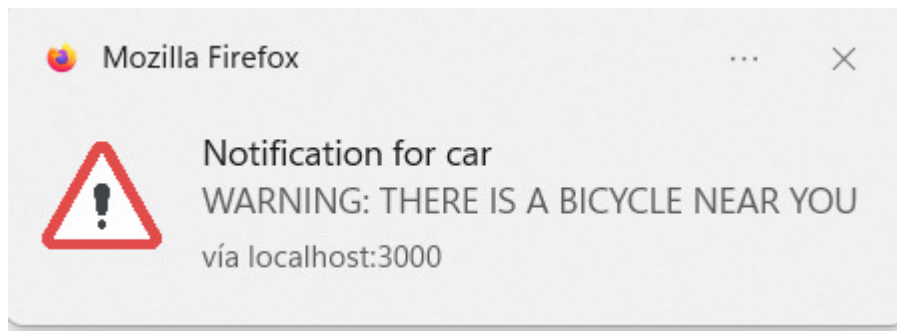
Alerts and notifications

You will only be notified if you enter as a car driver user, once you accept notification and location permissions, you will get a notification saying that you have subscribed as a car, then when there is a nearby encounter with a bicycle, you will get a notification both in your inbox, as well as on the application screen itself, emitting a characteristic sound so that you do not have to check your phone in case of encountering a bicycle while driving, below you have examples of the notifications available in the application:

Once you enter as a car:

Once you are notified of the meet with a bike

Mozilla Firefox   ...   ✕

⚠ Notification for car
WARNING: THERE IS A BICYCLE NEAR YOU
vía localhost:3000

SmartRoad

You are now logged as a...

WARNING: THERE IS A BICYCLE NEAR YOU

Car

Now you will be warned in case that a bike passes near you.

Settings and customization

Profile management

Since there are no accounts for users and there are only accounts for administrators, from the administrators view is where you can manage the administrator profiles, where you can create new accounts so that more people can manage the database, and you can also delete them In case an administrator no longer works in the company, in the following screenshots, you have screenshots of examples of the creation of administrators:

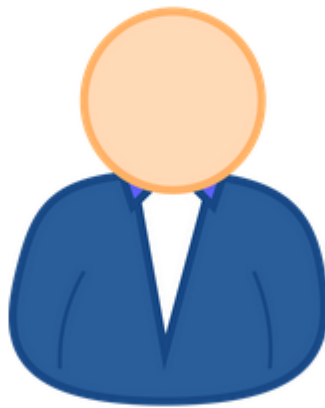Add New Admin

Username:

SmartRoad

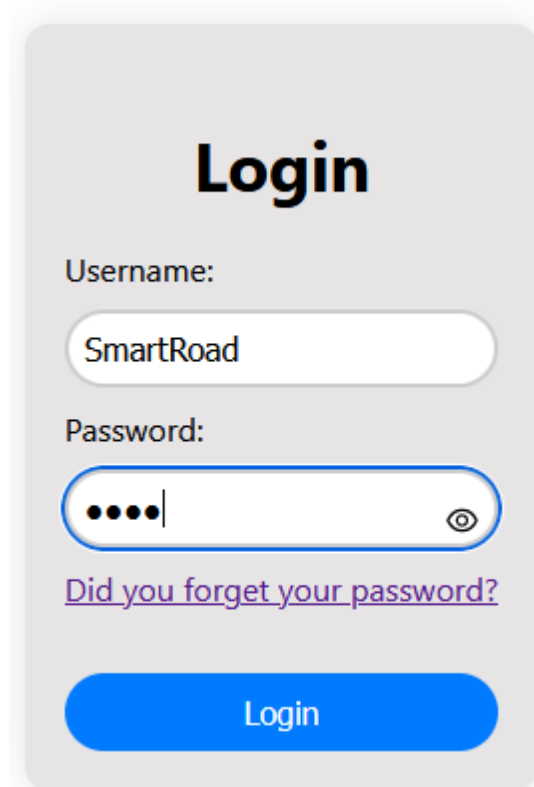Password:

●●●●

Image:

Examinar... User_icon-cp.png

Add Admin

As we can see, we created an admin:

3	SmartRoad		Delete

Now, let's try to log in with the new SmartRoad admin:

As we can see, we logged as SmartRoad now, we can know it because on the top of the header, it has the profile picture according to the SmartRoad user:

Track nº	Location	Status	Speed	Extra	Vehicle	Actions
1	28.0953529, -15.4390254	Stopped	0	"vehicle: toyota yaris"	1	Edit
2	28.0953529, -15.4390254	Stopped	0	null	2	Edit

Data and storage

All data is saved in a MySQL database, where only administrators can access to read, create, delete and update records. The following screenshots show the views of all the database tables.

Admins:

Tracks Admins Vehicles Logs

Add New Admin

ID	Username	Image	Actions
1	prueba		Delete

Tracks:

Tracks Admins Vehicles Logs

Add New Track

Track nº	Location	Status	Speed	Extra	Vehicle	Actions
1	28.0953529, -15.4390254	Stopped	0	null	1	Edit
2	28.0953529, -15.4390254	Stopped	0	null	2	Edit

Vehicles:

Tracks   **Admins**   **Vehicles**   **Logs**

←

Add New Vehicle

ID	Vehicle	Actions
1	bicycle	Edit Delete
2	car	Edit Delete

Logs:

Tracks   **Admins**   **Vehicles**   **Logs**

←

ID	Track ID	Admin ID	Action
1	1	1	UPDATE