

Homework for you English Class

Text Soutenance

Project team L3L1 : Abdel Massih Youstina, Thierno Bah, Mbaye Ndéye Pathé, Hamiche Mehdi

week n° : **10**

Date : 13/04/2022

Writer of this assignment : Hamiche Mehdi

Supervising teacher : Flavie Tonon

1) Development plan

Our development plan consisted of two parts : mobile application and website over several weeks.

We splitted up different tasks to accomplish this project:

- **First**, we trained on Android Studio. Then, Youstina and me tried to detect the different sensors of the phone and started to create the different interfaces:
 - Main menu,
 - Route page (« Save » and « Download » button),

- Registration form page,
 - Route information page,
 - Pop-ups
- **Then**, Thierno took care of creating the database and saving a route in the history and in the database of the application. He also took care of creating the favorites option. Youstina and me created the sensitive route based on the movements of the phone. And Youstina took care of downloading a route on the phone and displaying the form after drawing the route.
- **And finally**, we gathered all the tasks accomplished in the graphical interface to have a functional mobile application.

2) Mobile app demo

The basic tasks of this application are:

Drawing a real-time sensitive route of the user's path

Download an image of the route to the phone

Enter the information of a route and save the route on the database of the application to then find the route in the history

To launch the application, you must have an Android smartphone running Android 7.0 minimum.

First, when the application launches, there are two things to authorize, to know the position of the phone as well as access to the multimedia content of the phone.

Once the application is open, you have access to the main menu with two buttons:

- ◆ « *Start a route* »
- ◆ « *History* »

To start a route, press “Start a route” button. A pop-up appears (“Tracing begins...”).

By pressing this button, we have a route that begins with the detection of sensors on the phone, namely the accelerometer. In this page, we have 2 main buttons:

- ◆ « *Download* »
- ◆ « *Save* »
 - *Back icon* - to return to the main menu

While drawing the path, if you want to download an image of it to your phone, you have to press the « *Download* » button. A pop-up appears (« *Downloaded route* ») and the route image can be found directly in the phone gallery.

After drawing the route, if you want to keep the route in the application history, you must enter the information related to this route. To do this, press the « *Save* » button.

By pressing the « *Save* » button, we have a registration form page that appears in which the user will have to fill in the various fields available :

- ◆ Field « *Date* »
- ◆ « *Mode of transport* »
- ◆ Field « *Name of route* »
- ◆ « *Validate* » Button

When you finish entering the information of the route, you press « *Validate* ».

By returning to the main menu and pressing the "History" button, we have access to our saved routes with:

- ◆ *The route information on the right*
- ◆ *« Delete » button*
- ◆ *« Favorite » button*

When you press on a route, on the image of it in full screen and a "Close" button to return to the history menu.

When you press the "Close" button, you return to the history menu and you can also add a track to Favorites. You can also sort by choosing between displaying “All routes” or only “Favorite routes”.

Finally, you can delete a route from the history by pressing the "To delete ". A pop-up appears and you have the choice between yes and no.