Heart Disease Prediction for Doctor's Support

Description of the project

Read the .pdf **MLPC_Heart_Disease_Prediction.pdf**

Installation guide

1. Install python 3.7 (if it is not installed) :
    - Activate internet connection
    - open the command-line (Ctrl-Alt-T)
    - enter **sudo apt update**
    - enter **sudo apt install software-properties-common**
    - enter **sudo add-apt-repository ppa:deadsnakes/ppa**
    - enter **sudo apt update**
    - enter **sudo apt install python3.7**
    - close the command-line
2. Extract the zip heart_disease_prediction.zip
3. Open (Enter in) the directory **heart_disease_prediction**
4. Install the dependancies :
    - open the command-line (Ctrl-Alt-T)
    - enter **pip3 install -r requirements.txt**
5. Run the program:
    - enter **python launch.py**
    - After this, the server would be launched. Open the web browser and enter the link http://127.0.0.1:5002, now you can use the project

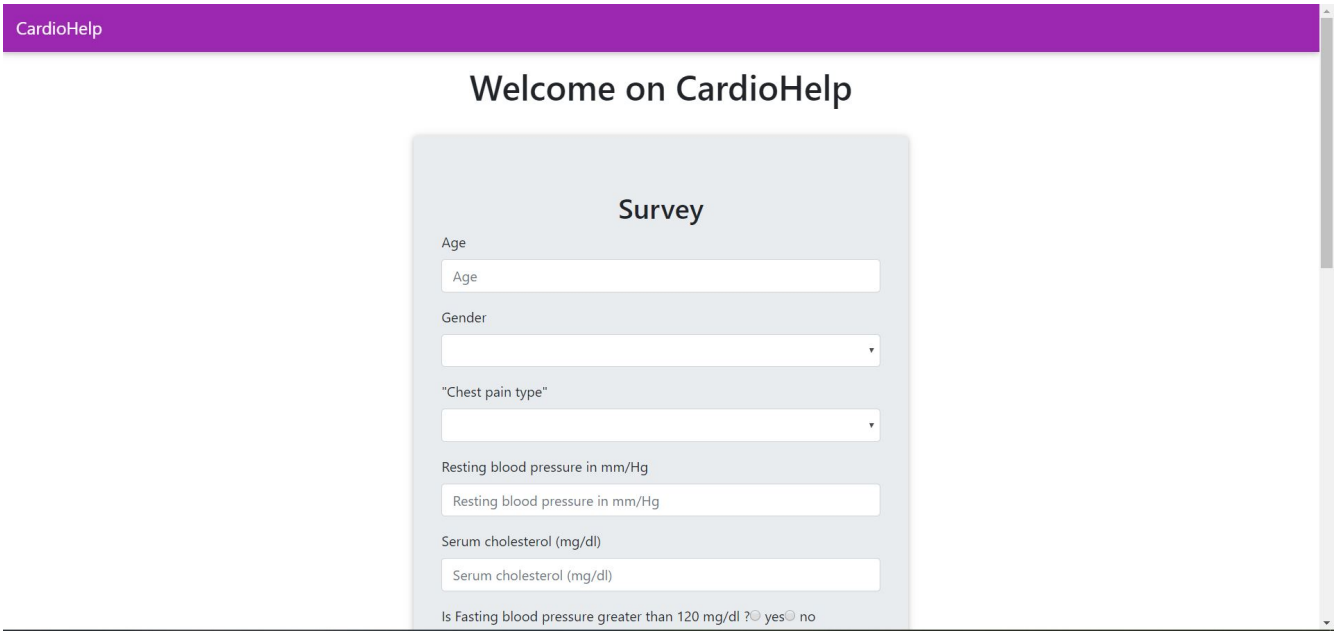
User Manual

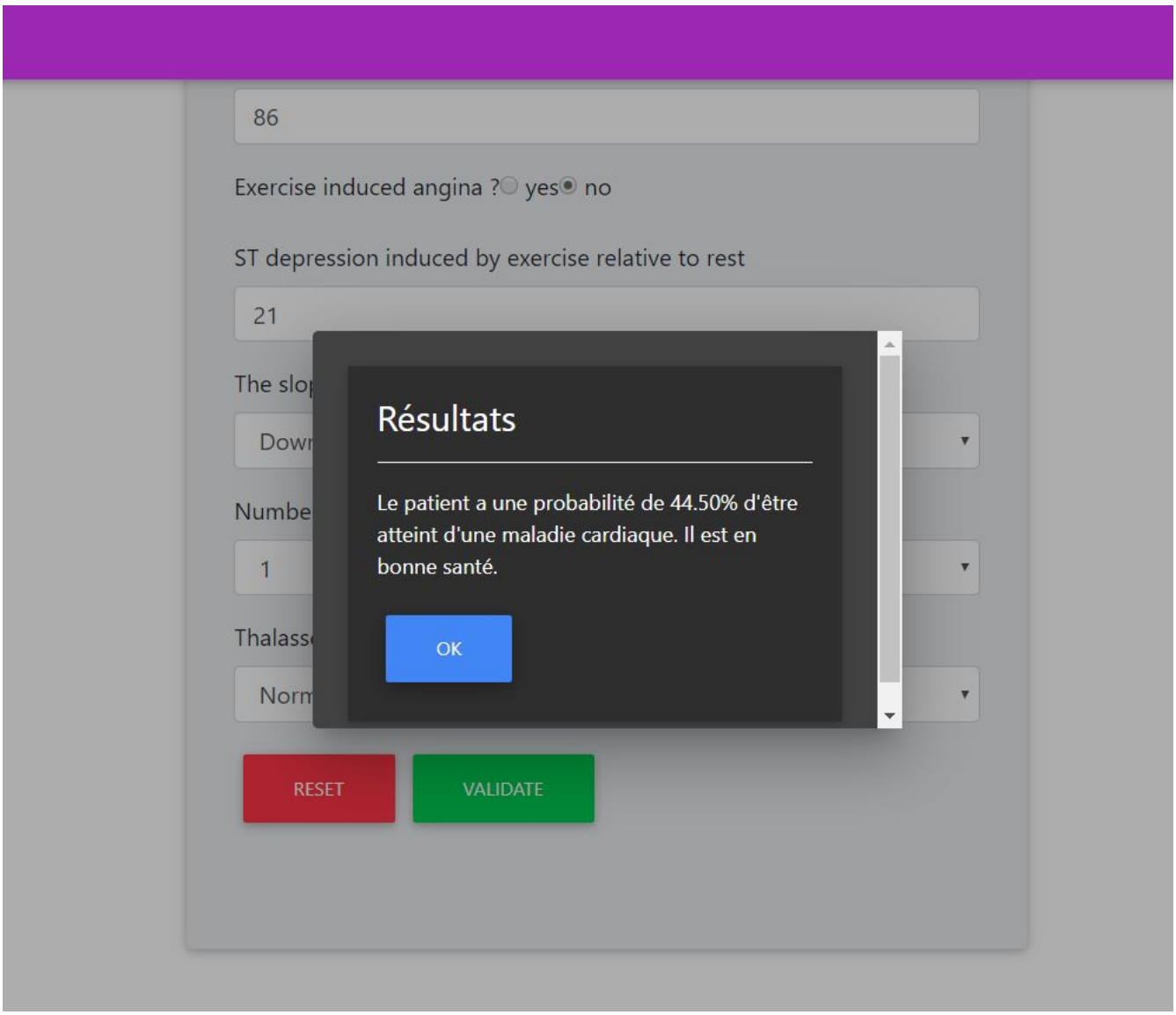
Once the project is opened, you will see a form with some questions. You can respond to the form and at the end, click on **Validate**.

As we said in the report those questions are to answer after an electrocardiogramm.

In order to test the accuracy of the model, you can use **donnees_cardiologie_en.xlsx** or **donnees_cardiologie_fr.xlsx** to guide your answers.

These files contain all the responses of the patients and the results (sick/safe).


CardioHelp
Welcome on CardioHelp
Survey
Age
Age
Gender
"Chest pain type"
Resting blood pressure in mm/Hg
Resting blood pressure in mm/Hg
Serum cholesterol (mg/dl)
Serum cholesterol (mg/dl)
Is Fasting blood pressure greater than 120 mg/dl ? yes no


86
Exercise induced angina ? yes no
ST depression induced by exercise relative to rest
21
Résultats
Le patient a une probabilité de 44.50% d'être atteint d'une maladie cardiaque. Il est en bonne santé.
OK
RESET
VALIDATE