**Programming Languages used**

* **Language**: Arduino
  + **Description**: Arduino is an open-source electronics platform based on easy-to-use hardware and software. It's intended for anyone making interactive projects.
  + **Usage**: Arduino plays in opening and closing the barrier and at the same senses whether the car already pass the barrier.
  + **Site**: <https://www.arduino.cc/>
* **Language**: Python
  + **Description**: Python is an interpreted, object-oriented programming language similar to PERL, that has gained popularity because of its clear syntax and readability.
  + **Usage**: Python plays in accepting and encoding the RFID number and at the same time capturing the plate number. It is also responsible in comparing data received from the hardware to the database.
  + **Site**: <https://www.python.org/>

**Library used**

* **Library**: OpenCV (Open Source Computer Vision Library)
  + **Description**:  is an open source computer vision and machine learning software library. OpenCV was built to provide a common infrastructure for computer vision applications and to accelerate the use of machine perception in the commercial products. Being a BSD-licensed product, OpenCV makes it easy for businesses to utilize and modify the code.
  + **Usage**: Used to detect and recognize plate numbers.
  + **Site**: <https://opencv.org/>

**Website Development**

* **Framework**: Laravel
  + **Description**: is an open-source PHP framework, which is robust and easy to understand. It follows a model-view-controller design pattern. Laravel reuses the existing components of different frameworks which helps in creating a web application. The web application thus designed is more structured and pragmatic.
  + **Usage**: Used in developing the website. Languages such as PHP, HTML, JAVASCRIPT, CSS are integrated.
  + **Site**: <https://laravel.com/>
* **Database**: MySQL
  + **Description**: MySQL is an Oracle-backed open source relational database management system (RDBMS) based on Structured Query Language (SQL).
  + **Usage**: Use in storing data like Users and User Logs.
  + **Site**: <https://www.mysql.com/>
* **Administrative Tool**: phpMyAdmin
  + **Description**:  is a free and open source administration tool for MySQL and MariaDB. As a portable web application written primarily in PHP, it has become one of the most popular MySQL administration tools, especially for web hosting services.
  + **Usage**: Use in administrating MySQL database like creating database, table and querying data.
  + **Site**: https://www.phpmyadmin.net/