**Software Project – 1**

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**Short Description**

Dhaka the most densely populated city in the world suffering from massive traffic. We are offering a smart way to deal with this unwanted traffic congestion. Through our software, the public can manage their timings with the traffic condition and signals as well as enjoy the emergency services such as the need for blood, ambulance services, and private vehicle registration. Also, the control system of traffic and road will be improved as the controllers can control almost all the necessary things in one place.

**Front-End**

In the front end, the user can see the map along with the options of Blood donation where the user can see the nearby blood donors, which signals are green and red, and available buses. The controller also gets to control the traffic lights and road management through the control system.

**Back-End**

Using the **Get** request we find the closest available ambulances, available car registration slots, and available buses from the server. Using the **Post** request, we save donors’ blood group in the server and save ambulance type. And lastly use the **Put** request to update the latest traffic condition, save the email of the user on the server and update the car license. Using the **Delete** request we delete the users’ name and old location.

**Database**

In the database, there is a **User table**

|  |
| --- |
| * Name |
| * E-mail |
| * Password |
| * Username |
| * Credentials |

where information about users name, email, password, username, credentials, etc are given. **Bus** table

|  |
| --- |
| * Bus Stop Locations |
| * Available Buses |
| * Available Routes |
| * Bus Names |
| * Bus Info |

where information about bus stop locations, available buses, available routes, bus names, and bus info. **Registration** table

|  |
| --- |
| * Name |
| * NID |
| * Number Plate |
| * License |
| * Model |

where information of users name, NID, number plate, license, model, etc are given. **Blood Donor** table

|  |
| --- |
| * Name |
| * Age |
| * Blood Group |
| * Contact Number |
| * Address |

where users’ names, age, blood group, contact number, address, etc are given. **Ambulance** table

|  |
| --- |
| * Location |
| * Type |
| * Emergency Status |
| * Time of Arrival |

where users’ location, type, emergency status and time of arrival, etc are given. **Control Room** table

|  |
| --- |
| * Traffic Info |
| * Signals’ Status (1st, 2nd, 3rd) |
| * Signal Location |
| * Map Info |

where users’ traffic info, signal’s status(1st,2nd ,3rd), signal locations and map info are given.