Vehicle identification system

5-29-2019

# Overview

## Project Background and Description

|  |  |
| --- | --- |
|  | It has become a major pain to identify various kinds of vehicles for certain purposes by a person or organization…  Purposes such as keeping track of all vehicles of participants of an event, vehicles in a parking lot, vehicles for sale, vehicles belonging to employees of an organization, etc.  This Project will achieve storing registration data of vehicles in order to be easily retrieved digitally at a later time from the cloud. All that is required is an internet connection.  Our target audiences are Individuals and organizations. |

## Project Scope

|  |  |
| --- | --- |
|  | Users under an organization will be able to log data containing the parking coordinates (if possible), license number of vehicle, picture, color, model, year, and a short description of the current state of the vehicle.  Officials of the organization will have access to this data while the vehicle is within that vicinity until it is removed completely from that vicinity which implies logging out.  Individual users can store data about their personal vehicles or other vehicles  It is up to the organization’s on-ground security team to allow a vehicle enter or leave the vicinity. If you’re not using this solution, your vehicle becomes truly parked at owner’s risk! |

## High-Level Requirements

|  |  |
| --- | --- |
|  | Internet, fingerprint, SSO authentication, Web browser, Android/IOS, tracker |

## Deliverables

|  |  |
| --- | --- |
|  | Web Application, API, Android app, IOS app. |

## Affected Parties

|  |  |
| --- | --- |
|  | Organizations can use this system to enhance their existing security team and measures |

## Affected Business Processes or Systems

|  |  |
| --- | --- |
|  | All organizations worldwide, events, security systems including the Police, and individuals |

## Specific Exclusions from Scope

|  |  |
| --- | --- |
|  | None [To be added as due date approaches depending on unimplemented features] |

## Implementation Plan

|  |  |
| --- | --- |
|  | Build an API with a cloud database to store the details of a user and all vehicles belonging to this particular user.  Database: Mongo DB  API stack: Node.js and Express  Registration of user from the web app to the database  Registration of vehicles under a user’s profile  Registration of organization by top-level admin  Logging in a user’s vehicle into an organizations reach with permission from the organization  Logging out a user’s vehicle from an organizations reach with permission from the organization  Retrieval of data from an authorized user within the organization. |

## High-Level Timeline/Schedule

|  |  |
| --- | --- |
|  | [05-30-2019] to [06-05-2019]  Github repository will be created, initialized with a readme.  API boilerplate will be created. Handlebars will be used as the template engine of the node.js and express app  Registration endpoints, permissions endpoints, and retrieval endpoints will be implemented  Host skeleton app on heroku.  A structure-only user interface will be implemented to test these initial endpoints  An organization dashboard will be created to view the data within the organization.  Complete  [06-05-2019] to [Next Date]  To be discussed |

# Approval and Authority to Proceed

We approve the project as described above, and authorize the team to proceed.

|  |  |  |
| --- | --- | --- |
| Name | Title | Date |
| Your name goes here | Mr | 5-30-2019 |
| Team mate | X | X |
| Team mate | X | X |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |
| Approved By |  |  | Date |  | Approved By |  |  | Date |

Nil Nil Nil Nil