**Vehicles Of Interest – Mobile App UI Interface Design Document**

SWEN 661 – Spring 2021

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# Introduction

This is a design document for the vehicles of interest mobile application. This application will be used by Maryland State Troopers. The below sections will further elaborate on the purpose and scope of the document.

* 1. **Purpose**

The State Police Department already has an in-house system that stores and tracks the vehicles of interest. Since the Maryland State Troopers also require to access the vehicles of interest list when they are at the traffic stops, they need a mobile application that will give them the capability to view the list. For this application, the end-users are the state troopers of Maryland.

* 1. **Scope**

The scope of this document is limited to design the user interface for the State troopers to track the vehicles of interest in Maryland in a read-only format. The user interface design will include a part of the page navigation as well. However, the backend controllers and the database design for the application are out of scope. As part of the application design, user log-in and profile management are also out of scope.

The primary intended audience for this document is the Maryland State Troopers which may include the end-users and the administrators who act as the primary support for the site. The document can be used as a basis of reference for all of the development and quality assurance purposes. The backend data structure design may be based on this document as well. This document is subject to be updated later as the requirement changes.

* 1. **Reference Document**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Reference** | **Title** | **Version** |
| R1 | 10 Usability Heuristics | 10 Usability Heuristics For User Interface Design | Web |
| R2 | The basics of form design | Designing Interfaces (By Jenifer Tidwell) | O’Reilly |
| R3 | Example mobile apps | Rent.com, weather.com | Web |

* 1. **Terms, Abbreviations, and acronyms**

|  |  |
| --- | --- |
| **Abbreviation** | **Definition** |
| UI | User Interface |
| UX | User Experience |
| VOI | Vehicles of interest |

# Graphical User Interface Design

The Maryland State Policy Department – Vehicles of Interest application has three sets of the user base. First is the users in the headquarters who need to add new vehicles of interest. The second one being the police department from the other states. The last group is the state troopers, who need to access the data. This UI design document is mainly for the mobile application.

* 1. **Mobile App**

As described briefly above, this application is dependent on the operating system. Being a mobile application, it will run on operating systems like Android, iOS, Windows. However, the internet browser version may be considered while developing the application as well, since the web application may be accessed via mobile internet browsers, which will have a different resolution than the browsers on a desktop computer. This app will be used by the state troopers in Maryland. All the data will be displayed in a view-only format to the users. The following list will contain the pages for the application

* + 1. **VOI – Search VOI**

**Screen Name:** Search VOI

Graphical user interface, text

Description automatically generated

**Internal UI functionality**: As the user logs in, s/he lands on the first page of the application.

* Search functionality lets the user search for the vehicles of interest by plate numbers. As the plate number is entered fully or partially, it shows the related vehicles of interest that are still active.

**External UI functionality**: The basic external UI functionalities include the below items.

* Search text box and the button displays.
  + 1. **VOI – Search Results**

**Screen Name:** Search Results

Graphical user interface, text, application

Description automatically generated

**Internal UI functionality**: As the user hits the Search button, the search result displays.

* The search result displays in an HTML table, with view links.
* Clicking the view link will open a separate page to display the details of the vehicle of interest.

**External UI functionality**: The basic external UI functionalities include the below items.

* The table displays right under the search text box.
* The search result contains the VOIs for the plate number entered.
  + 1. **VOI – VOI Detail**

**Screen Name:** VOI Details

Graphical user interface, text

Description automatically generated

**Internal UI functionality**: As the user hits the view link for a VOI, it takes the user to the new page with the VOI details.

* Clicking on the “Back” button takes the user back to the search results window.

**External UI functionality**: The basic external UI functionalities include the below items.

* The VOI detail page displays the VOI detail in read-only format.
* The page displays the “Back” button at the top of the page.