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

SWEN 661 – Spring 2021

**Debashis Jena**

University of Maryland Global Campus

Table of Contents

[1. Introduction 1](#_Toc64356771)

[1.1. Purpose 1](#_Toc64356772)

[1.2. Scope 1](#_Toc64356773)

[1.3. Reference Document 1](#_Toc64356774)

[1.4. Terms, Abbreviations, and acronyms 1](#_Toc64356775)

[2. Graphical User Interface Design 2](#_Toc64356776)

[2.1. Web App 2](#_Toc64356777)

[2.1.1. VOI – Search VOI 2](#_Toc64356778)

[2.1.2. VOI – Search Results 3](#_Toc64356779)

[2.1.3. VOI – VOI Detail 4](#_Toc64356780)

# Introduction

This is a design document for the vehicles of interest web application. This application will be used by the police departments from any other states. 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 police departments from other states also require to access the vehicles of interest list of Maryland, they need a web application that will give them the capability to view the list. For this application, the end-users are the police departments from other states.

* 1. **Scope**

The scope of this document is limited to design the user interface for the State police 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 out of scope.

The primary intended audience for this document is the police department of other states 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 web apps | Geico.com, Salesforce.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 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 web application.

* 1. **Web App**

As described briefly above, this application is not dependent on any operating system. Being a web application, it will run on any operating system. However, the internet browser version may be considered while developing the application. This app will be used by the police departments in other states. All the data will be displayed in a view-only format to the police officers or staff in other states. The following list will contain the pages for the application

* + 1. **VOI – Search VOI**

**Screen Name:** Search VOI

A picture containing graphical user interface

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

A picture containing graphical user interface

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 pop-up window 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, application

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 “Return to All Vehicles Of Interest Page” 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 “Return to All Vehicles Of Interest Page” button and a close button on the window.