User Interface Design Document

J.U.S.T.I.C.E.

Judgment Utility Space Time Intensive Crime Evaluator

Client
Michael Smolyak

Team 1 - Aequitas
Gregory Mayer
Andrew McLamb
Arjun Saini
Nicholas Sorauf

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JUSTICE
User Interface Design Document

Table of Contents

1. Introduction

1.1 Purpose of This Document

The purpose of this document is to show the user how to navigate and interact with the Justice web application. Images will show how JUSTICE is interconnected and will display the various pages within the application.

1.2 References

1. JUSTICE System Requirements

2. User Interface Standards

This section details the design standards of the JUSTICE web application. As seen in Figure 1.0 there are five components of the JUSTICE layout that are consistent throughout the application. First, the JUSTICE logo appears in the upper-left corner and the view selector appears to the right of the logo. All three views are enabled by default, but views can be deselected in order to focus on a specific view. Figure 1.1 shows what the page will look like if the map view is the only one selected, Figure 1.2 does the same for the graph view, and Figure 1.3 does the same for the table view. Each page includes the date and time slider just under the logo and view selector. The final component that is present on every page is the filters bar that stretches across the bottom of the page. On the far left side of the filter bar, clicking on the arrow opens the filter dropdown menu which is used to apply filters. The filters bar includes a portion that shows which filters are applied and a number of results that denotes how many data entries are included in the set created by the chosen filters.

Figure 1.0

JUSTICE Logo

View Selector

Date Slider

Time Slider

Filter List
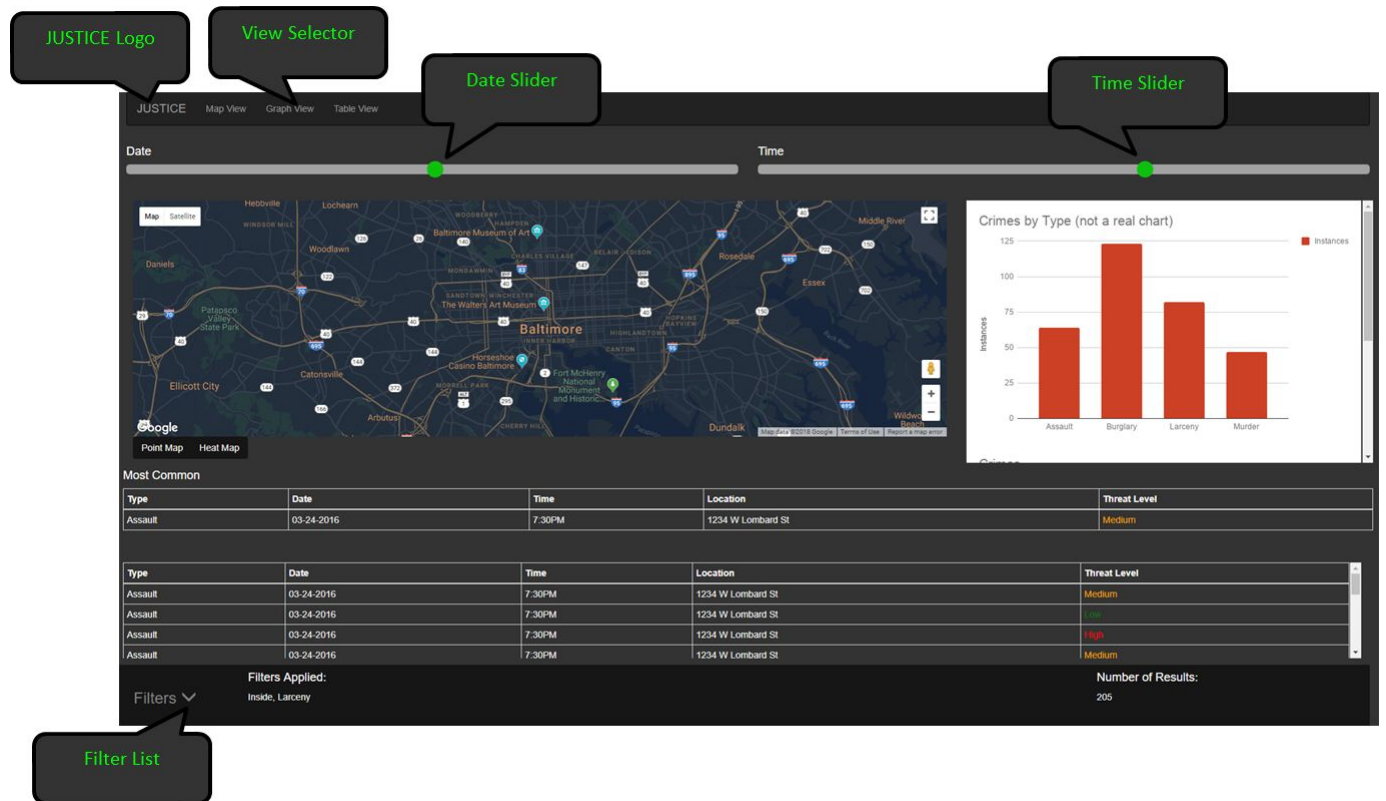
3. **User Interface Walkthrough**

3.1 Justice Navigation Diagram

The following navigation diagram explains possible user flow through the system. Our application exists on a single page. Using the view selector, the user can alter what they see on that page. This navigation diagram denotes all possible views that are available with different view selector combinations.
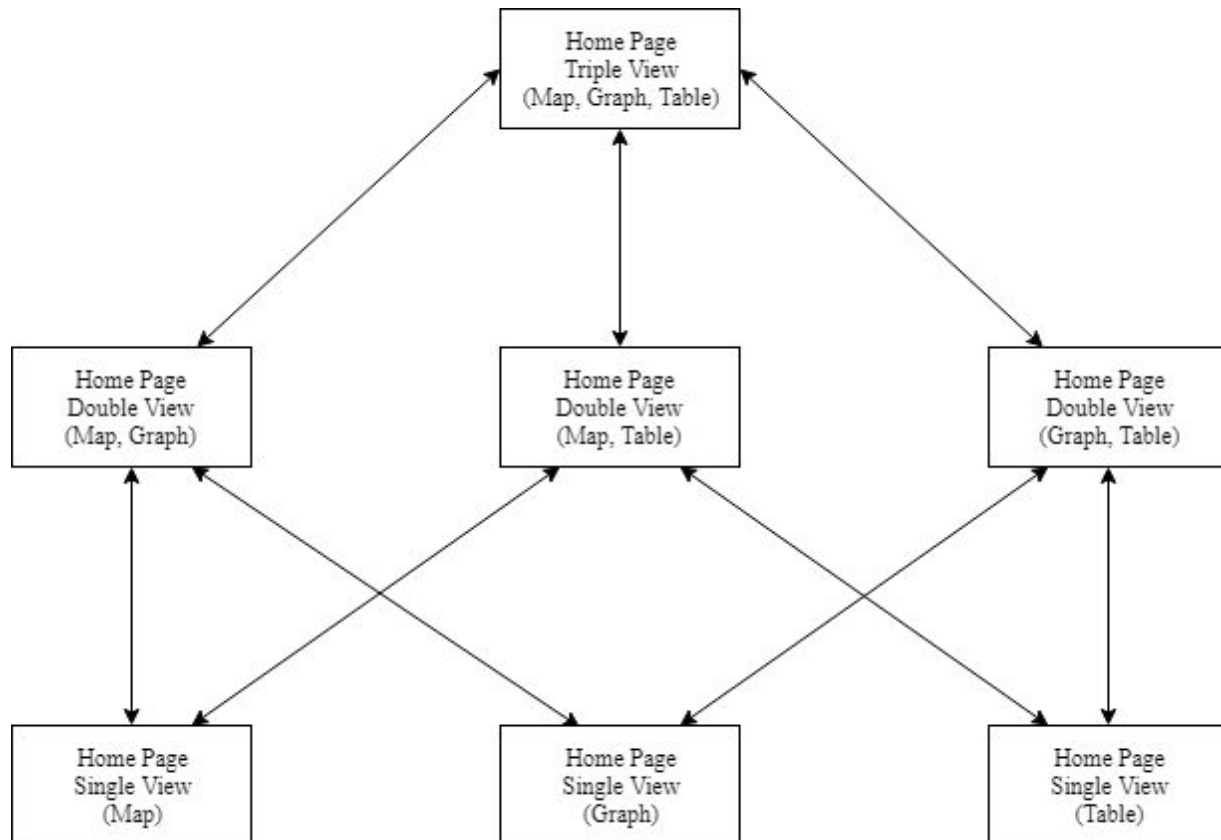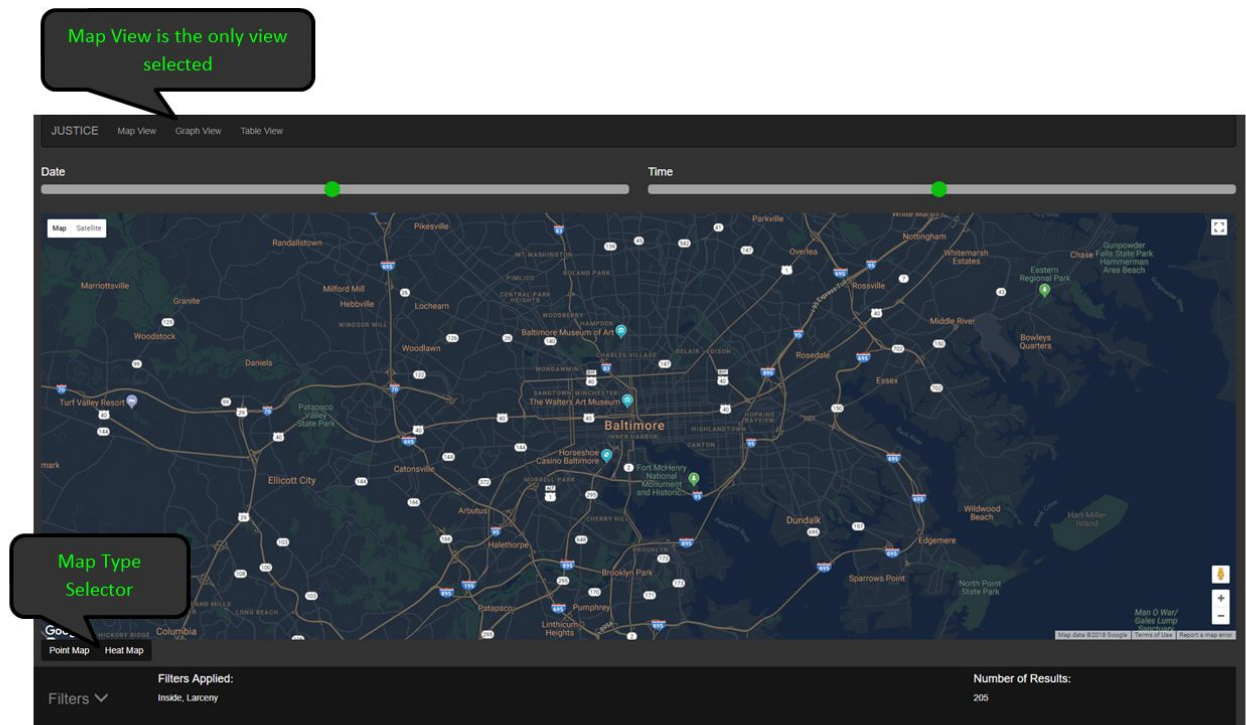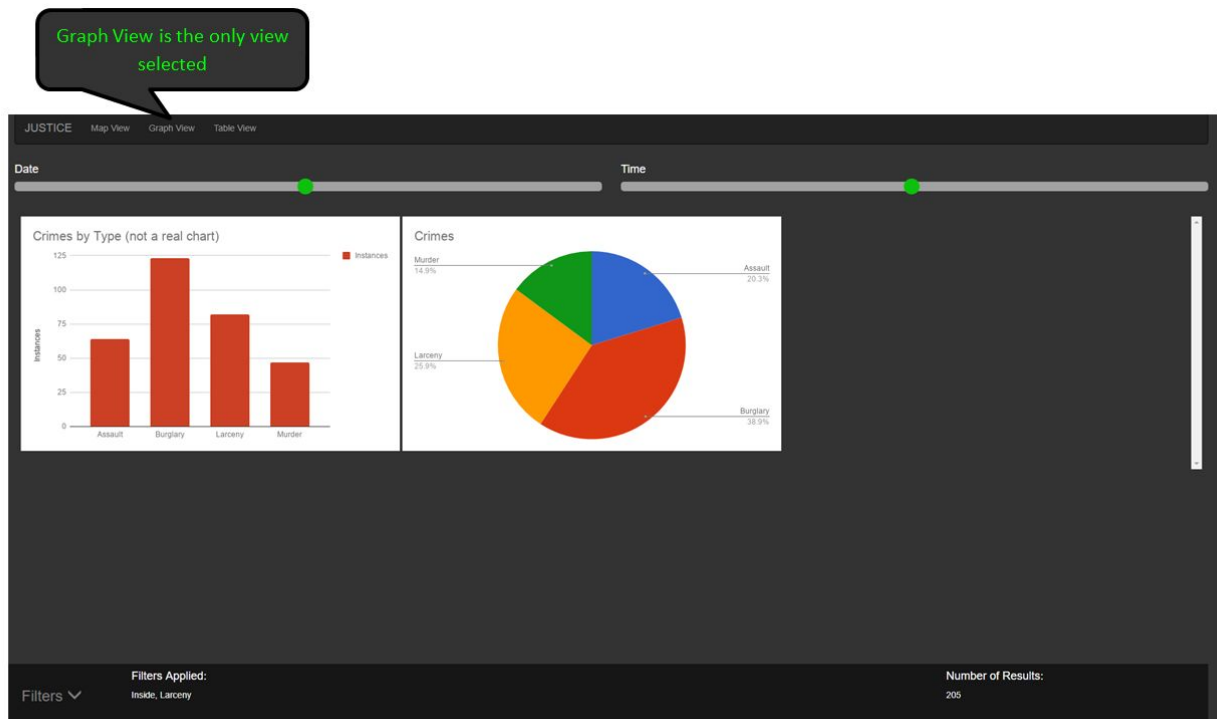
Figure 1.1

Figure 1.2

Figure 1.3
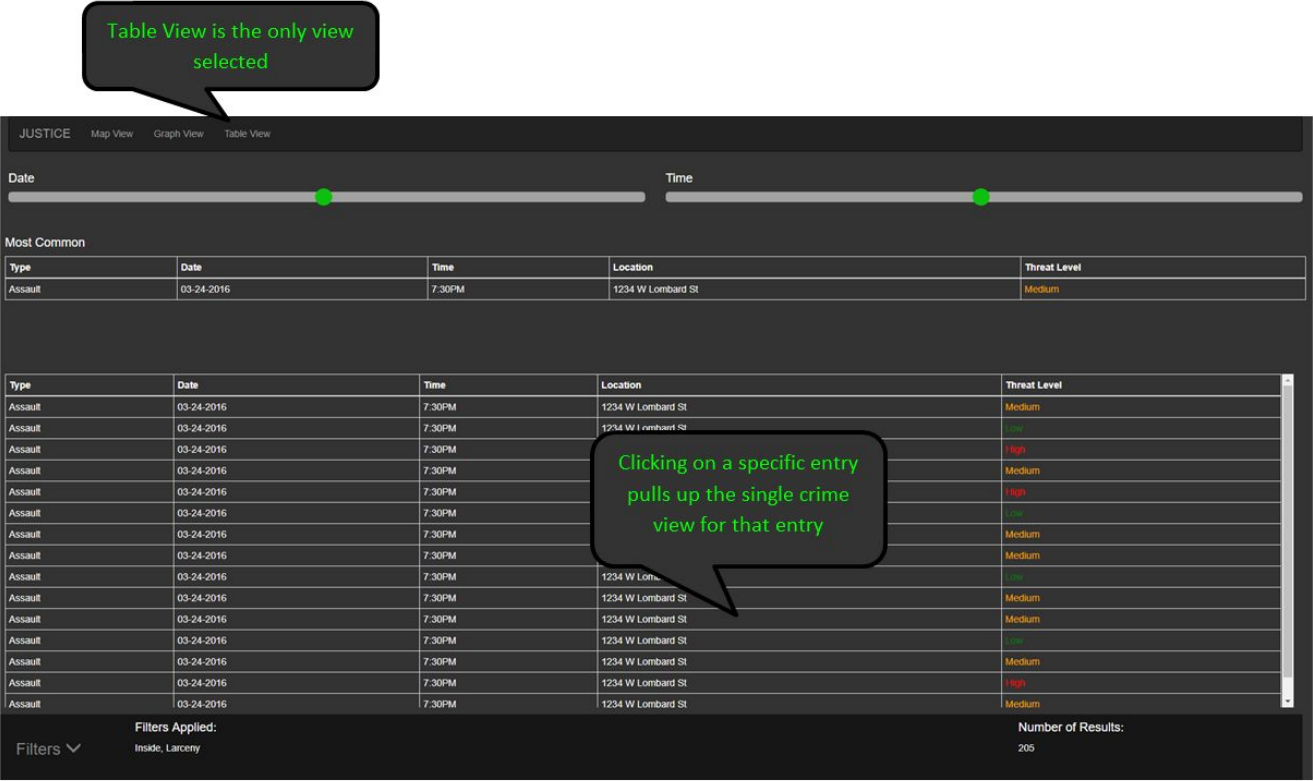
Figure 1.4
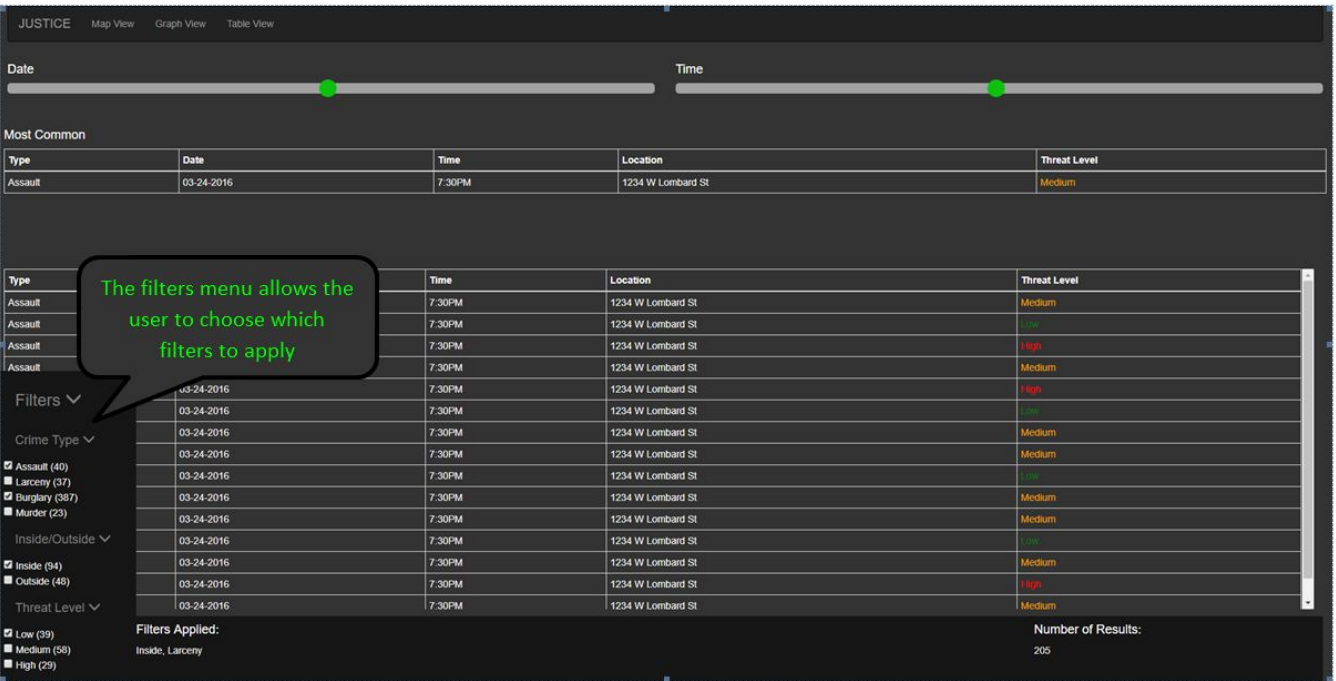
4. **Data Validation**

Our application has a few data entry points. Refer to the table below for further information regarding allowable inputs and their limits.

4.1 Data Validation Table

Entry Location	Data Type	Limits
Filter Checkboxes	Boolean	Users can only select filters that have non-zero values.
User Name	String	Must have between 6 and 16 characters.
Password	String	Must have between 8 and 32 characters.

Appendix A – Agreement Between Customer and Contractor

The customer agrees to a crime visualization system that allows the user to filter data in a variety of forms (maps, graphs, tables) relative to a chosen time frame. See System Requirements Specification for more information.

When future changes to this document occur a drafted new document shall be created. An electronic copy of both versions will be presented to the client for review. Upon approval, the draft will be finalized and signed off by both parties.

Client

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Team

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Appendix B – Team Review Sign-off

This document has been collaboratively written by all members of the team. In addition, all team members have reviewed this document and agree on both the content and the format. Any disagreements or concerns are addressed in team comments below.

Team

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Comments

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Appendix C – Document Contributions

Andrew McLamb created the Navigation Diagram and formatted the screenshots and the document. Nicholas Sorauf created the prototype displayed in screenshots.