Administrator Manual

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
Administrator Manual

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1. Introduction

1.1 Purpose of This Document

The purpose of this document is to act as a step-by-step guide for a system administrator to setup and install the JUSTICE application. You may want to have the Systems Requirements Document and Systems Design Document close by for quick reference.

1.2 References

1. JUSTICE System Requirements
2. JUSTICE System Design Document

2. System Overview

2.1 Background

The JUSTICE application is a crime data visualization application. Please refer to the Systems Requirements Specification, section 1.3, for more information about the purpose of this application.

2.2 Hardware and Software Requirements

The system can be run on either a Windows or Linux based operating system. We use MongoDB as our database engine. React 15.6.1 and Node JS are required for proper operations.

3. Administrative Procedures

The section describes how to install JUSTICE software requirements as well as the JUSTICE application itself. In addition routine and periodic administrative tasks are described below.

3.1 Installation

3.1.1 Node JS and Node Package Manager (NPM)

Node JS and NPM are required to be installed and properly configured on the system before JUSTICE installation. NPM is installed along with Node JS. Please refer to the "Install Node JS" installation procedure at "https://www.nodejs.org/en/download/" for installing Node JS and NPM.

3.1.2 MongoDB

MongoDB is required to be installed and properly configured on the system before JUSTICE installation.

The steps to download and install MongoDB are as follows:

Step 1: Create a MongoDB list file in /etc/apt/sources.list.d/ with this command:
    sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv
2930ADAE8CAF5059EE73BB4B58712A2291FA4AD5

Step 2: Create source list file MongoDB
echo "deb http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.6 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-3.6.list

Step 3: Update the repository
sudo apt-get update

Step 4: Install MongoDB
sudo apt-get install -y mongodb-org

To add MongoDB as a service to be started at boot time:

sudo systemctl enable mongod.service

3.1.3 React

React is required to be installed and properly configured on the system before JUSTICE installation. In order to install React run the command "npm install react" in whatever shell you're using.

3.1.4 JUSTICE Application

Download our application files from Github and place them wherever you wish to store the application. Then inside of the client folder, run the command "npm install".

3.2 Routine Tasks

An administrator will have to run the "FetchData.js" script to periodically update the database with the latest data from the Open Baltimore API.

3.3 User Support

For additional support please contact us via email.
Gregory Mayer- gmayer1@umbc.edu
Andrew McLamb- andrew56@umbc.edu
Arjun Saini- ix56539@umbc.edu
Nicholas Sorauf- nsorauf1@umbc.edu

4. Troubleshooting

In the event of an error or bug troubleshooting is necessary. We have outlined common issues that may arise during use of the JUSTICE application.

4.1 Dealing with Error Messages and Failures

If you encounter any errors feel free to contact us using the above emails.

4.2 Known Bugs and Limitations

We currently do not have any known bugs.

Appendix A – 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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Appendix B – Document Contributions
This document was formatted by Andrew McLamb. Arjun Saini wrote the installation section for MongoDB. Nicholas Sorauf and Andrew McLamb worked together to write the majority of the document.