

2.0 Detailed Design Document

Outline of Detailed Design Document

- 2.1 Project Description
- 2.2 Data Dictionary
- 2.3 ERD

2.1 Project Description

This Detailed Design Document provides the details of the **Case Database** for CaseX, an interactive web application and scalable database solution optimized for the management of physical data. The Case Database will be implemented in MongoDB, using Mongoose as a object relational model tool for Node.js. The storage engine for the Case Database will be WiredTiger, which is the default storage engine starting in MongoDB 3.2. The potential users will be users of the CaseX web application, which will provide a web front-end for this database.

The full database for CaseX consists of the **Case Database** and the **User Database**. The User Database will be developed by Carleen Petrosian and Andrea Carver, and is outlined in their preliminary design document. This group will also develop the Victim and Suspect entities of the **Case Database**.

2.2 Data Dictionary

The data that will be stored in the Case Database will be the basic data related to each case: the division that is investigating it; the bureau whose jurisdiction it resides in; the DR number for the case, victim(s), and master DR; notes regarding the case; the dates the crime occurred and was reported; the district it was reported in; the status of the case and the date the status was updated; its solvability factor; the address at which it took place; the weapon and/or method used; the motive; and the dates the case data was last modified and who it was modified by.

Case Database

Attribute name	Description	Data type	Can be NULL	Can be multivalued
Division	List supplied by the LAPD which classifies different divisions.	Dropdown	No	No
Bureau	List supplied by the LAPD which classifies different bureaus.	Dropdown	No	No
DR Number	Document Record (DR) number which uniquely classifies a Case	Number	No	No
Master DR	Document Record (DR) number which groups related Cases together.	Number	No	No
Notes	Additional information about the Case.	Text	No	No
Date Occurred	Date that the Case occurred.	Date	No	No
Date Reported	Date that the Case was reported.	Date	No	No
Reporting District	List supplied by the LAPD which classifies different types of reporting districts.	Number	No	No
Case Status	List supplied by the LAPD which classify different types of case status types.	Dropdown	No	Yes
Case Status	Date that the case status was last	Date	No	No

Date	modified.			
Solvability Factor	List supplied by the LAPD which classify different types of solvability classes.	Dropdown	No	No
Crime Address	Address that the crime took place.	Address	No	No
Weapon/Method Used	List supplied by the LAPD which classify different types of weapons.	Dropdown	No	No
Motive	List supplied by the LAPD which classify different types of motives.	Dropdown	No	No
Last Modified Date	Date that the last modification took place on the Case.	Date	No	No
Last Modified By	ID of the user who last changed the Case	User	No	No

2.3 Finalized ERD

