



CMSI 401 - FALL 2017

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MOTIVATION

Storing data on paper limits the productivity of the LAPD Homicide Library Unit. Access is slow, single-user and prone to data loss. We built a web app that allows rapid queries, enables concurrent access and eliminates the risk of damaging data.

JUSTIFICATION

CaseX gives us an opportunity to work on a real-world problem and gain experience with modern web development technology.

KEY FEATURES



Digitize meta-data of case records through manual or automatic Excel import.



Data validation to ensure data quality and consistency.



Make queries on data and visualize trends.



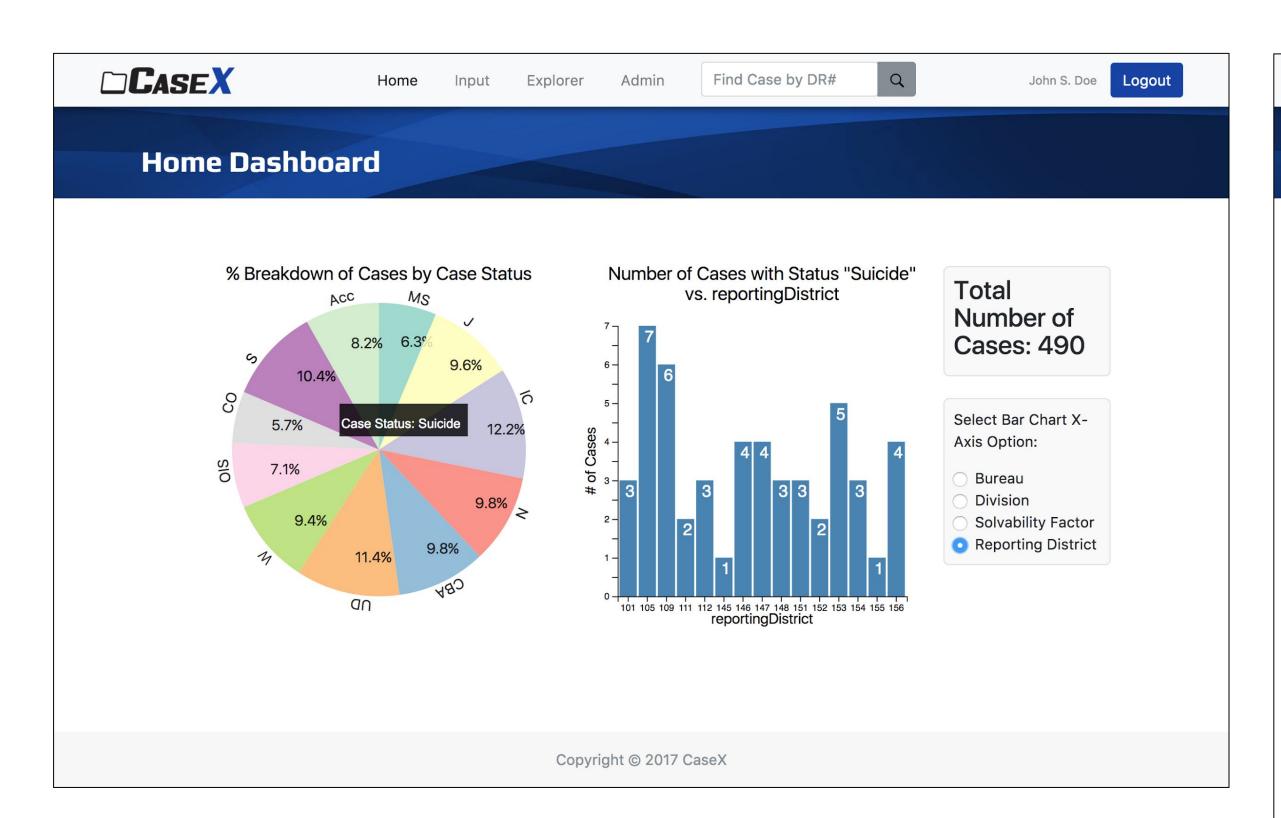
Generate Excel reports from queried data.



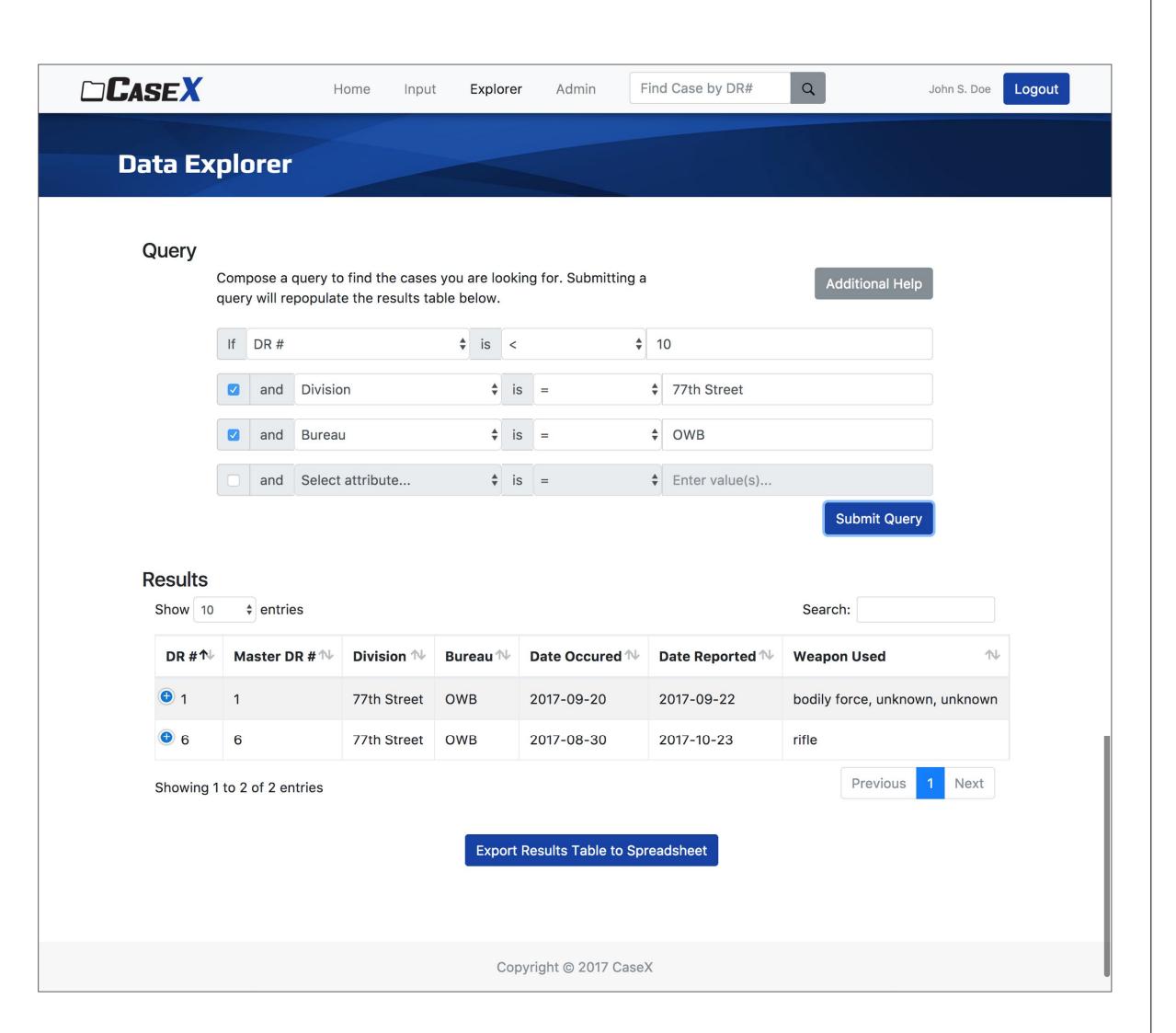
JWT-based authentication secures access to data.

CASEX IS AN INTERACTIVE WEB APPLICATION AND SCALABLE DATABASE SOLUTION OPTIMIZED FOR THE MANAGEMENT OF PHYSICAL CASE DATA.

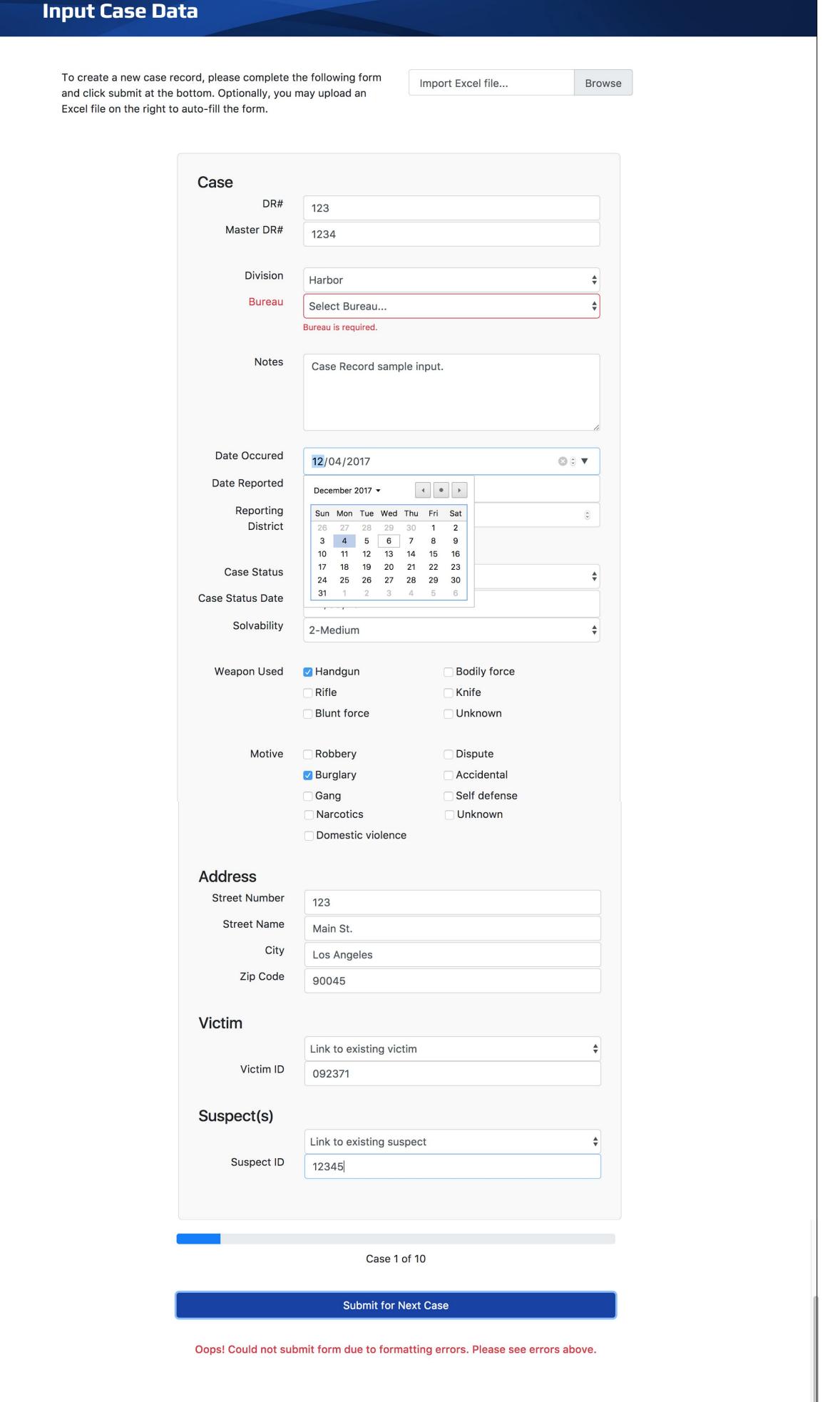
□**C**ASE**X**



The Home Dashboard page.



The Data Explorer page.



Explorer Admin Find Case by DR#

John S. Doe Logout

The Input Case Data page.

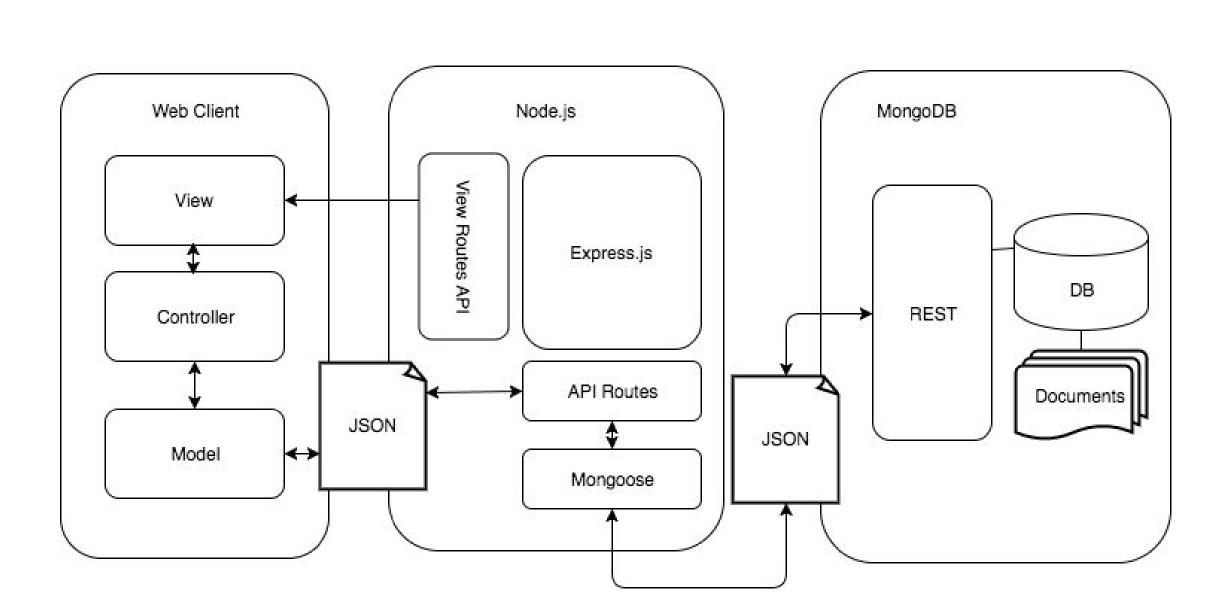
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ARCHITECTURE

Software organized into frontend, server, and database layers.

User interface split into Home, Input, Explorer, and Admin page.

Three privilege levels: Administrator, Form-Filler, and Read-Only.



CaseX Architecture Diagram

TECHNOLOGIES

