

Teen Court Database

Team TwoCents: Bobby Reilly and Andrew Thompson

Sponsor

- Lawrence County Teen Court
 - Director Marlene Todd
 - Based out of Deadwood, SD
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- Teen Courts provide a place for first time offenders to assume responsibility for their actions and keep their record clean.
 - There are 9 courts within South Dakota and around 1,250 in the US.

Client Problem

- Using JAT Trax Studio's Teen Court Database since 2000
 - Problems with JAT Trax Studio's software
 1. Uses old version of Microsoft Access, can not be installed on newer PCs
 2. Only accessible from one PC
 3. Limited ability to gather statistics to send to national youth court and local legislatures

Requirements

1. Individual court programs have access to their own data.
2. Three levels of defendant expunging (Full, Partial, Sealed).
3. Privacy of all juveniles within the court system is a large concern and must be kept secure.

Sprint 1

- Information gathering
 - Met with project sponsor and talked with web host
- Begin work on documentation
- Examine previous work and current application

Sprint 2

- Developed mySQL database schema
- Started PHP Class objects
- Chose IDE package (Aptana Studio 3)
- Obtained domain name and hosting

Sprint 3

- Developed prototype
- Decided on several JQuery plug-ins
 - DataTables for data listings (uses JSON)
 - JQueryUI for GUI elements
 - Pstrength for password strengths

Sprint 4

- Began top level implementation (*Class, DB, GUI*)
 - Program class and database interaction
 - Application Administrator and Hybrid user
 - Users class and database interaction
 - Hashing Algorithm
 - Login and access control
 - Registration
 - Profile Page
 - Password Recover
- Data Class
 - Parses database results to JSON files
 - Used with DataTables JQuery plugin

Sprint 5

- Implementation of Defendants
 - Many sub areas (tabs)
 - Extensive use of JQuery and PHP Classes
 - Citation
 - Location
 - School
- Implementation of Volunteers and Workshops
- Core/Global functions
 - JQuery Timepicker, Cookie and Validate plugins
 - Convert to server date
 - Confirmation dialog
- Some unit testing and client-side data validation

Demo

<http://teencourtdb.com/>