Teen Court Database

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Sponsor

- Lawrence County Teen Court
- Director Marlene Todd
- Based out of Deadwood, SD
- 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
 - 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

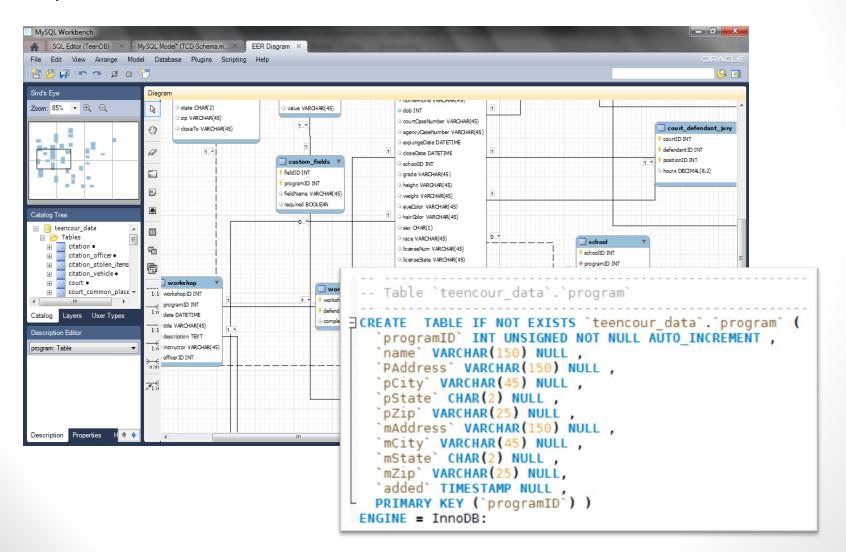
- 1. Individual court programs have access to their own data.
- 2. Three levels of defendant expunging (Full, Partial, Sealed).
- 3. Privacy of all juveniles within the court system is a large concern and must be kept secure.
- 4. Ability to easily gather statistics on a state and national level

Sprint Review

- Sprint 1 Review
 - Mission Statement
 - Requirements, User Stories and Project Research
 - Initial Software Requirement Document
 - Initial Software Design Document
- Sprint 2 Review
 - Initial User Interface Design
 - Class Designs
 - Database Schema
 - Domain Name and Web Space

Sprint 2 - Design

MySQL Database



Sprint 2 - Design

Class Prototypes and IDE

```
🔯 Web - TeenCourtDB/includes/class_core.php - Aptana Studio 3
File Edit Source Navigate Search Project Run Commands Window Help
                     | 🔞 🌣 🕶 🔘 🕶 | 🤌 🕶 | 🔡 👺 🙆 🖾 🔟 🔘 🗸 💋 🗐 🕥 🗘
 Project Explorer 🛭
                                             class_core.php 🔀
                                                   k?php
                                                2⊖ class Core {

☐ 
☐ includes

                                                       // database connection info

⊕ css

                                                       private $db host = 'localhost';
      🕀 🗁 js
                                                       private $db name = 'teencour data';
                                                       private $db user = 'teencour web';
         class_core.php
                                                       private $db password = 't33nc0urtw3b12';
         class_court.php
           class_defendent.php
                                                9
                                                       // database handler
         class_offense.php
                                               10
                                                       public $dbh;
         class_parent.php
                                               11
                                                       private static $instance;
                                               12
         class_sentence.php
                                               13
                                                       // construct the core class
         class_trial.php
                                               149
                                                       private function construct() {
         class_user.php
                                               15
                                                           // building data source name
         class_volunteer.php
                                               16
                                                           $dsn = 'mysql:host=' . $this->db host . ';dbname=' . $this->db name;
                                               17
                                                           // open the database
         class_workshop.php
                                               18⊝
                                                           try {
         db close.php
                                               19
                                                               $this->dbh = new PDO($dsn, $this->db_user, $this->db_password);
         db_connect.php
                                               20⊝
                                                           } catch (PDOException $e) {
         footer_external.php
                                                               print "Error: " . $e->getMessage() . "<br>";
                                               21
         footer_internal.php
                                               22
                                                               die();
         footer.php
                                               23
                                               24
         header_external.php
                                               25
         m header internal.php
                                                       // create an instance to open db communication
                                               27⊝
                                                       public static function dbOpen() {
👺 Samples 🗎 Snippets 🚟 Outline 🖂
                                               28⊝
                                                           if (!isset(self::$instance)) {
                                               29
                                                             $object = CLASS ;
                                                               self::$instance = new $object;
                                               30
type filter text
                                               31
                                                           return self::$instance;
                                               32
 □ Core
                                               33
       db host
       db_name

    □ Console 
    □ Terminal 
    □ Problems

       db_user
       db_password
                                             FTP Console
```

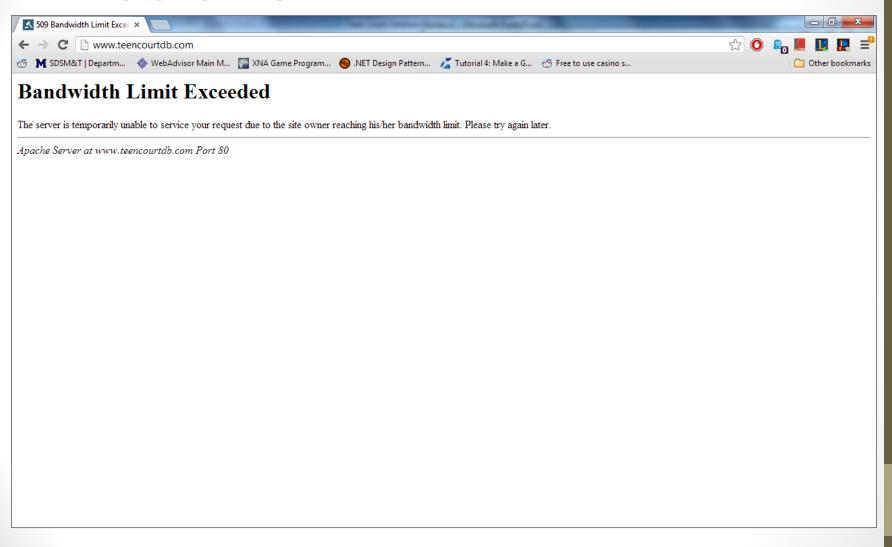
Sprint 3 - Prototype

- Finish documentation
- Develop website prototype
- Prototype Link

Successes

- Have the domain, web space and secure key ready
- Prototype layout is nearly finished, UI look and feel is finished
- Using JQuery DataTables plugin to parse JSON data
- Core class for database connection and PDO setup

Problems



Issues

- Didn't have hosting taken care of till Sprint 3
- Needed to redesign some database components
- Learning PHP, JQuery, and JSON formatting
- Prototype needs more areas finished up
 - Application Admin
 - Program Admin
 - Reports
 - Statistics
- Need clarification from sponsor on some Defendant information
- Display fixes on IE

Remaining Backlog

- Finish up few areas in prototype design
- Get approval and feedback from sponsor
- Begin developing functionality
- Future meeting with client

Questions?