This file describes the intent and direction of the new CSET website project. As well as detailing the packaged frameworks, their usages and why they are included.

There are separate files which contains the changes listings as well as a breakdown of future tasks and TODOs in order to bring the website to a publishable level. See “Tasks.xls”.

Also, a good initial point of study should be centered on understanding the layout of the current CSET database. There is a diagram within the csetweb database on the sovereign-new server. The csetweb-dev database on sovereign-new is where any development should be done, and not applied to the csetweb database until testing and test integrations are complete.

6/14/15: JackS – I recommend that one of the immediate next developers look into a database redesign to eliminate legacy tables rendered obsolete with the new web design.

**Direction:**

The currently hosted CSET website contains a lot of very old, practically useless data, has a dated user interface design and is built on aged frameworks.

The easiest way to look at the new direction is at what we *are* keeping. This includes: Home (Dept. Chair Blurb), Degrees information, Faculty information, Lab information, Resources and Helpful Links.

As an extension into the “nice to have” functionalities, we are looking for a fluid, clean interface for users to login and update appropriate data fields, i.e.:

* A faculty member can update their own profile, this updates the database
* A student project page, where students can register a profile, which is stored in the database, and once accepted, the student can add/edit a project profile
* A dept. chair specific profile in order to change key details of the department information, this will update the database.
* A web admin profile to allow edits (which update the database, appropriately) to prevent needing to go all the way into the project to update certain pieces, i.e.: document links, resource links, etc…
* A tech news feed to the home page, this brings in content from multiple current tech blogs to help give students access to current and emerging technologies.

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\* Current Project: CSET\_Web\_Project

\* Reuses Code From: csetMVC2011

\* Legacy Code Author(s): Andrew Bowers

\* Latest Code Author(s): Jack Sanchez

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\* Previous Versioning and Environment(s):

\* - VS2010, ASP.NET MVC3

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\* Current Versioning and Environment(s):

\* - VS2013 Update 4, ASP.NET MVC5

\* - Bootstrap 3 JavaScript/CSS framework

\* - Twitter Bootstrap Hover-Dropdown framework

\* - CSS3 Hover Animation library

\* - Knockout.js JavaScript DOM Binding framework

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**Frameworks and Libraries:**

* Bootstrap 3 JavaScript/CSS framework

One of the most popular frameworks for developing *responsive* websites.

See: <http://www.w3schools.com/bootstrap/>

* Twitter Bootstrap Hover-Dropdown framework

Bootstrap extension framework for easy onhover dropdown menus

See: <https://github.com/CWSpear/bootstrap-hover-dropdown>

* CSS3 Hover Animation library

CSS3 library with many different onhover animations which can be applied to any object. Note: VS2013 complains about missing vender specific properties, but thus far, I haven’t run into any issues.

See: <https://github.com/IanLunn/Hover>

* Knockout.js JavaScript DOM Binding framework

This is a very powerful data binding framework, see: <http://knockoutjs.com/>

**Permissions Descriptions:**

* Student

Students will have login privileges only pertaining to their own project pages and profiles. A student will not have access to update any school related information, faculty, degree, or otherwise.

* Faculty

A faculty member will have privileges to update any school related information, as well as privileges to remove any inappropriate student project postings. The faculty member will manage CSET events and the resources page and content.

* Web Admin

Of course, the web admin will have full rights for any modifications.