[BossyUI]

Executive Summary

[Purpose]

BossyUI is a collection of widgets designed to make the end user's task of creating a website smooth and more efficient. By only using the AngularJS framework with no JQuery dependencies, we are able to construct widgets using lightweight AngularJS directives. The widgets are themeable and therefore can be adjusted to suit the end user's tastes. The end result is that the widgets created through BossyUI are much more maintainable and easier to use than other widget collaborations.

[Design]

- BossyUI follows the Model-View-Controller (MVC) architecture that clearly separates the logic created in the directives from the end user's controller.
  - The module is the directive created by the BossyUI Team.
  - The view is the template; either created by the end user in conjunction with the BossyUI created directive template, or the default template.
  - The controller is created by the end user in order to set up the widget according the the end user's data and preferences.
- All methods show a low cyclomatic complexity because the only atomic conditions that exist are dependent upon whether the end user has provided the config object with appropriate data.
  - Low complexity makes errors easier to seek out and correct.
- BossyUI takes advantage of basic JavaScript, the AngularJS framework, and basic HTML.

[Verification]

- A set of unit tests have been developed for each widget that verify the the functionality along each atomic condition.
- The most complex portion is the configuration of the widget according to user data, which extends into separate methods with only one atomic condition each.

[Conclusion]

BossyUI is collection of widgets that provides end users with an easy to use and customizable end product. The well tested and low complexity widgets will offer easy maintainability compared to other widget collaborations currently available. The fact that the BossyUI collaboration has no dependencies aside from AngularJS, and its strict commitment to understandable design will ultimately draw users from other UI collaborations.