

[Bossy/UI]

Executive Summary

- **Purpose**

Bossy/UI was created to be a suite of tools to provide web developers that are creating an interactive website, a simple and unified interface for widgets. While there are tools already produced, many of these have heavy and unconnected dependencies that are hard to work with. This suite goes in a new direction with AngularJS. With the utilization of this framework we no longer have JQuery and other frameworks as dependencies. The tools are themeable and can be crafted to a unified design. This allows the whole site to be created faster and maintained easier.

- **Importance of AngularJS**

- Two-way data binding
- MVC approach
- Custom-directive
- REST-friendly
- Advanced-templates
- Dependency-Injection

- **Product**

The combobox, completely written in AngularJS, provides three features:

- Cascading Dropdown (dropdown choices are dependent on the selections of another dropdown).
- Checkbox Multiselect (allows user to select several options, select all or deselect all).
- Normal multi-select combobox.

- **Design**

The combobox follows the MVC architecture as it is written completely in AngularJS.

The program's logic is clearly separated from the user interface.

MVC architecture in AngularJS:

- **CONTROLLER:** controls MODEL and VIEW and how data is retrieved and displayed to end-user
- **MODEL:** is the data, either dynamic (database) or static (JSON)
- **VIEW:** displays the model bidirectional

All methods used employ feature low cyclomatic complexity as long as the implementation utilizes correct data.

- **Verification**

Still in development, however we are working on behavioral and automated tests for code used throughout the project.

- **Conclusion**

Bossy/UI is a great suite of tools that provides developers and non developers with easy-to-use tools for website development in a full end-to-end product. From initial development to an easily maintainable finished project, Bossy/UI is a great choice compared to many of the expensive and time consuming products available. Bossy/UI has no required dependencies other than AngularJS and the underlying web service software and carries a strong foundational commitment from its parent developer organization that will attract developers and end users from competing projects.