Problem Definition
Monsurvey is a research-targeted survey application which allows for complex surveys to be created through a simple point-click interface. Surveys can be built around a logic flow which lets the User specify what should happen based on test-taker responses.

Design Process
The client needed a survey application where user actions could control how the survey was presented, and that is where the design for Monsurvey began. A major complain the client had over existing applications was the ease-of-use, which caused frontend and backend development to happen at the same time, with the ideology that “If it isn’t attractive and intuitive, people won’t use it.” The name Monsurvey, first ‘Monsieurvey’ came before the interface and helped guide an ‘elegant’ theme for the application.

Technology Used
The website was built on the Django framework, using Python as the language. A MySQL database is used to store user data, and a MongoDB non-relational database is used to store survey information. On the frontend, AngularJS is used to control data, and the styling is build on the Semantic-UI framework as it integrates well with Angular and provides bare-bones javascript interactions which made writing custom functions simpler than other frameworks. AngularJS is what made most of Monsurvey possible. The survey builder is essentially just a tool to view and manipulate a JSON structure, which relies heavily on Angular models. A simple Angular plugin for drag and drop allowed for a simple way to reorder surveys.

Future Direction
After a lot of development and thought, it was determined that the website itself is not as valuable as the technologies developed to make it work, thus the future of Monsurvey is to be released as an Open Source library for form creation and manipulation. We plan on abandoning the Semantic framework to create our own interface geared towards data entry. This new framework will be built from the ground up to integrate with Monsurvey, so to make it simpler than any competition.

Current Status
After a nearly 170,000 lines of code and markup written, the application works well. All features requested by the client are implemented, and the application is currently live at monsurvey.com

References
Monsurvey would not have been possible without the following:
- https://semantic-ui.com/
- https://angularjs.org/
- http://jquery.com/
- https://jqueryui.com/
- https://github.com/angular-ui/ui-sortable
- https://www.mongodb.com/
- https://www.djangoproject.com/
- Lots of Coffee
- Little Sleep

Prospective Clients
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Requirements
Requirements were rather open ended, which allowed for a lot of design freedom:
- There needs to be a way for user actions to control what is visible on the screen.
- Images need to be available in help text.
- It needs to not require programming knowledge to use.
- Users need to be able to see their results.