



Programming Questions  
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## References

<http://www.djangobook.com/>

## Purpose

The purpose of this exercise is to test your ability to use Python and the Django web framework to implement a database backed web service. The solutions will be judged based on their use of Python and Django. Much less emphasis is placed upon the HTML/CSS/JavaScript end of the project and if only bare minimums of HTML/CSS/JavaScript are used that is fine.

## Problems

### 1) Model Design

Design and implement a simple Django web application that allows users to create and share custom "UI forms". A "UI Form" is a set of data fields a user can create in a data driven way that defines a custom form for other users to fill out. (This is a dead simple version of SurveyMonkey.com).

There are two possible data types for fields in our UI Forms: Boolean and Integer. Booleans are represented by checkboxes and integers by input elements. Each form also has a descriptive label and a comment description.

### 2) Forms, views, url wireframe

Build a working site that uses the UI Form models to allow users to login using the Django auth framework and create multiple UI Form templates.

### 3) Sharing templates via email

A single user can create multiple templates and should be able to email a given template to an email address. Emailing the template should give a link to a url in the Django website that allows the email recipient to view a read only version of the template without having to login to the Django site.

### \* Extra Credit

Build a preview method that will let a user looking at the definition for a UI Form see a live web preview in a popup window of what that form would look like.

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