

Markmarch Survey Web App Doc

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1. About the app:

This app is developed for [open source tools course](#) at NYU. It's a simple survey app, where users can create and vote on surveys.

2. Programming languages and platform:

The app is written in python, along with HTML, CSS and some javascript. This app is written to run on Google App engine. You can visit the live one at : <http://markmarchsurvey.appspot.com>

This app uses a modified version of [Django](#) framework called [Djangononrel](#). Since Google App Engine uses Datastore as database solution, which is not a relational database and the original Django is designed to work with relational database. In order to utilize simple yet powerful tools provided by Django, a more non-relation-database-friendly backend is needed, and that is what Djangononrel is.

3. Apps in this app:

There are two main Django apps in this survey app: *accounts* and *survey*.

The accounts app manages user registration and authentication, using the built in authentication framework in Django. It also manages an additional user profile for additional information related to the user.

The survey app is responsible for managing all data related to survey.

There are also several third party apps used in this app:

auth2, openid, httplib2 comes with social_auth, which is a app that adds additional social features for Django apps, which can be used for authentication using social networks such as Facebook, Twitter, etc. However, this features is currently not finished.

autoload, dbindexer, djangoappengine comes with Djangononrel, to make Django works

nicely on Google app engine and it's non-relational database.

4. Accounts app:

Besides the built in auth models in Django, accounts app has 2 models: UserProfile and Friendship.

UserProfile: stores additional data about user.

Friendship: relationship data about users(the app currently doesn't support adding friends, which is originally planned).

5. Survey app:

The survey app has 5 models, which are : Survey, Poll, Choice, Vote and Comment.

Survey model is represents the basic information about a survey, including name and description about the survey, and the user created the survey, date, expire date etc.

Poll model stores info about a specific question in a survey.

Choice model stores info about options in all survey and counts the votes towards a specific option in a survey.

Vote records each user's votes about a specific question in a specific survey.

Comments is used to store comments users made on surveys.

6. Front end:

Django templates are used for rendering the front end. All template extends base.html, which renders the top navigation bar and add references to javascript files and css stylesheet.

This app also uses [Bootstrap](#) from twitter, which is a css and javascript framework for creating UIs. Javascript and css files are located in the static folder.

For more info on the app, see the [about](#) page in the app.