

Session 6

Tutorial 4

Forms, POST request, url tags

- Expand index view to list of questions, URL tags to find URL
<https://github.com/sravyeyn/polls2/pull/1/commits/9eed26a0c5c3b669e7e886420e7f76abb2822530>
- Add HTML Form to vote, request.POST, and results page.
<https://github.com/sravyeyn/polls2/pull/1/commits/3512b23f26afcf0fedf6cea706dd76cf344159d5>
- Testing in Django

Login and authentication

- Django comes with users/auth system
 - <https://docs.djangoproject.com/en/2.0/topics/auth/default/>
 - Implements users models, login sessions
 - Default views for login/logout
 - Customization on urls for redirection after login/logout
- Using it
 - Create login/logout views and add it to URLs <https://github.com/sravyeyn/polls2/pull/1/commits/ade65280a9ab06dfa29b246dc558817e3cd5ead>
 - Update settings for login urls
 - Protect other views using `login_required` decorator
<https://github.com/sravyeyn/polls2/pull/1/commits/6285e4bb6a99e87962f65c7a0d9006a8af43165b>

Learning other parts of Django

Topics not covered

- Class based views <https://docs.djangoproject.com/en/2.0/topics/class-based-views/>
- Django Forms <https://docs.djangoproject.com/en/2.0/topics/forms/>
- Templating syntax <https://docs.djangoproject.com/en/2.0/topics/templates/>
- Static file management
- Multi language support
- Front-end design
- and many more

Django resources

- Guide on getting help from Django docs <https://docs.djangoproject.com/en/2.0/intro/whatsnext/#how-the-documentation-is-organized>
- Tutorials <https://docs.djangoproject.com/en/2.0/intro/>
- Topic guides <https://docs.djangoproject.com/en/2.0/topics/>
- How-to guides <https://docs.djangoproject.com/en/2.0/howto/>
- Deployment guide <https://docs.djangoproject.com/en/2.0/howto/deployment/>
- Reference documentation <https://docs.djangoproject.com/en/2.0/ref/>

Deploying Django project

Deployment guide <https://docs.djangoproject.com/en/2.0/howto/deployment/>

Deployment components

- Making Django code deployment ready - <https://docs.djangoproject.com/en/2.0/howto/deployment/checklist/>
- Server hardware - Amazon Web Services, Google Cloud, Rackspace etc
- Server configuration - setting up users/ssh, remote access
- Server software - Apache, gunicorn
- Database setup and configuration
- Networking configuration related to DNS, port mapping, IP address etc
- Deploying code and running server processes
- Error Logging, Emails and monitoring
- Automation

Self learning software development

Principles

- Understand fundamentals well
- Go to depth at least in one low level language
- Understand how things are working, don't just put pieces together and expect magic

- Practise and learn, by doing small, fun projects
- Understand basic system administration concepts

Resources

- Massively open online courses
 - <https://github.com/mvillaloboz/open-source-cs-degree>
 - <https://github.com/ossu/computer-science#core-programming>
 - <https://www.edx.org/course/cs50s-introduction-computer-science-harvardx-cs50x>
- Server Admin for Programmers <https://serversforhackers.com/>
- Tutorials specific to language, framework or technology
- Blogs and Books