

Webapps Group Project: Project Technology Report

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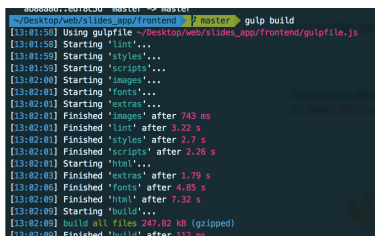
June 6, 2016

1 Backend

- Django python framework
 - A language that all team members know
 - Robust
 - Does most heavy-lifting jobs
- Sqlite3 database
 - lightweight
 - easy to use
 - we will soon switch to Postgresql database for better robustness
- django channels with in-memory channel layer
 - provides web-socket support
 - low latency and guaranteed delivery
 - works transparently with django

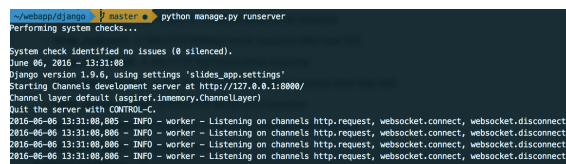
2 Frontend

- Yeoman development tools (yo, gulp, bower)
 - modular architecture, comes with TDD enviroment
 - well-organised, easily managed or updates
 - easily scalable



```
node@source:~/django-master$ cd master
~/django-master$ cd slides_app/frontend$ gulp build
[13:01:58] Using gulpfile ~/Desktop/web/slides_app/frontend/gulpfile.js
[13:01:58] Starting 'lint'...
[13:01:59] Starting 'styles'...
[13:01:59] Starting 'scripts'...
[13:02:00] Starting 'images'...
[13:02:01] Starting 'fonts'...
[13:02:01] Starting 'extras'...
[13:02:01] Finished 'images' after 743 ms
[13:02:01] Finished 'lint' after 3.22 s
[13:02:01] Finished 'styles' after 2.7 s
[13:02:01] Finished 'scripts' after 2.26 s
[13:02:01] Starting 'html'...
[13:02:03] Finished 'extras' after 1.79 s
[13:02:06] Finished 'html' after 4.85 s
[13:02:09] Finished 'html' after 7.32 s
[13:02:09] Starting 'build'...
[13:02:09] build all files 247.82 kB (gzipped)
[13:02:09] Finished 'build' after 112 ms
```

Figure 1: Frontend build using gulp



```
~/webapps/django-master$ python manage.py runserver
Performing system checks...

System check identified no issues (0 silenced).
June 06, 2016 - 13:31:00
Django version 1.9.6, using settings 'slides_app.settings'
Starting Channels development server at http://127.0.0.1:8000/
Channel layer default (asgiref.inmemory.ChannelLayer)
Built the server with CTRL-C.
2016-06-06 13:31:00.085 - INFO - worker - Listening on channels http.request, websocket.connect, websocket.disconnect
2016-06-06 13:31:00.086 - INFO - worker - Listening on channels http.request, websocket.connect, websocket.disconnect
2016-06-06 13:31:00.086 - INFO - worker - Listening on channels http.request, websocket.connect, websocket.disconnect
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```

Figure 2: Running django backend server