Webapps Group Project: Project Technology Report

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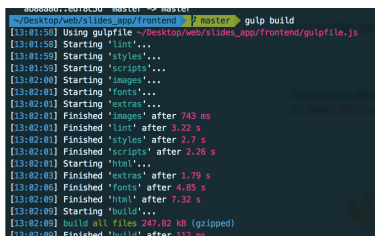
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1 Backend

- 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
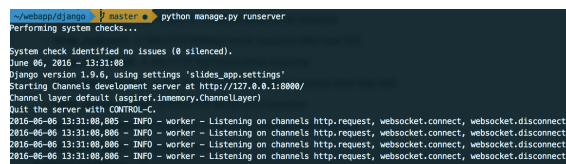 - works transparently with django

2 Frontend

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

Figure 1: Frontend build using gulp

Figure 2: Running django backend server