

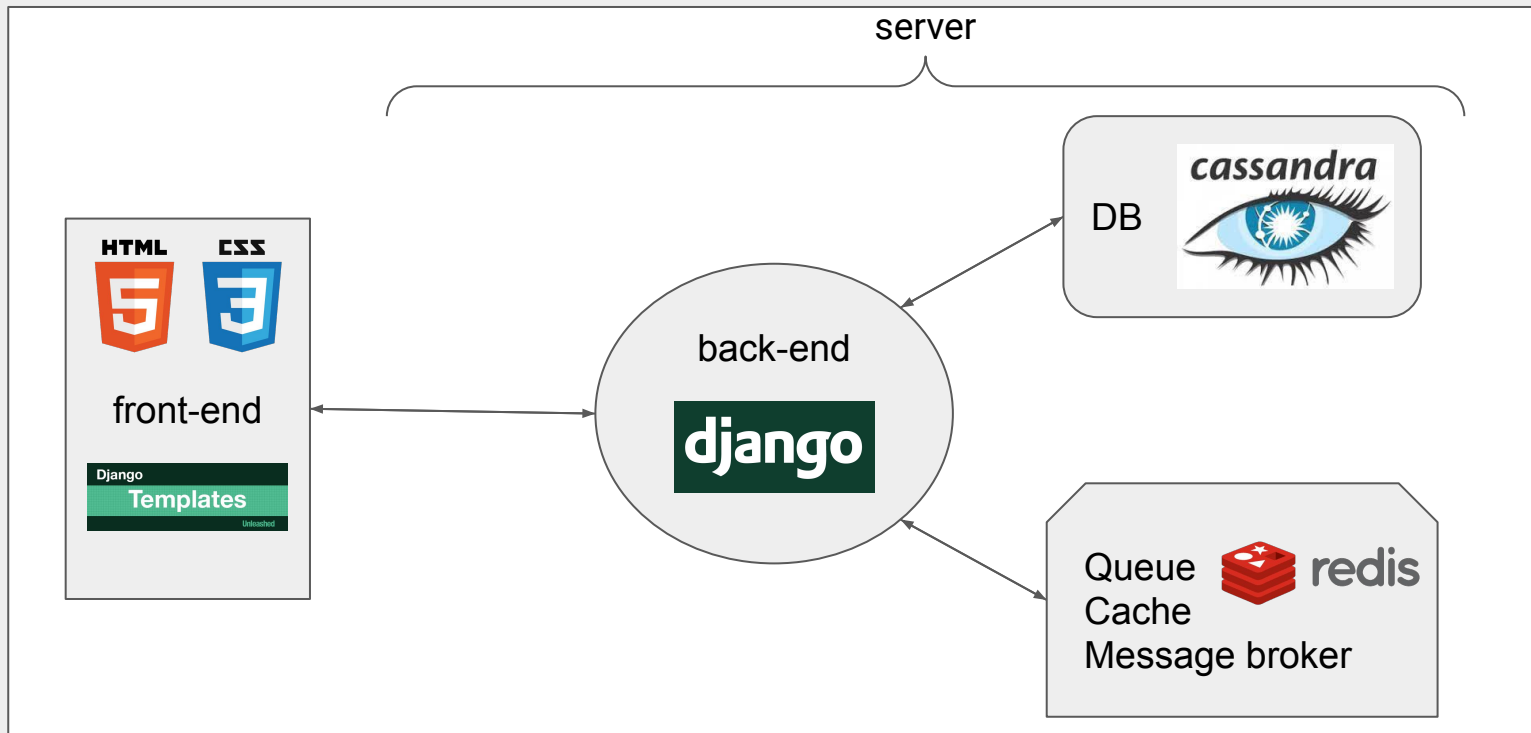
Web and Cloud Computing

Chat App - Architecture

Group 15

Architecture

Containerized using



Front-end (SPA)

User name:

Start chatting!

Technologies:

- HTML + CSS
- Django Templates

John	
Channels:	
A	
B	
C	
Online users:	
Peter	
John	
Marly	Peter: Hi John
	John: Hi Peter
Search	Message box

Back-end

Technologies:

- Django:
 - Channels
 - Web sockets
- Redis
 - Process queue of messages

Database

Cassandra DB (low latency)

Redis (in-memory as cache/message broker)