



CS196

#9

Announcements

Homework 5

Midterm

Project Midterm
Presentation

Hacktoberfest

Midterm

The midterm will be a take-home exam and will take the place of HW7. You will get one week to work on the midterm, and will be able to work with your peers.

Project Midterm Presentation

The project midterm presentation will take place on November 14th, during lecture. Each group will have 5 minutes to present their project progress.



<https://hacktoberfest.digitalocean.com>

Today

Linked Lists
Deployment

Hackerspaces

Mobile Dev: Siebel 1105

Data Science: Siebel 0216

Web Dev: Siebel 1304

Office Hours

Office Hours will take place
after Hackerspaces from
8-9 pm

Siebel 0216 on **Wednesday**
Siebel 1111 on **Thursday**

Attendance

<https://goo.gl/iYigpc>

Keyword given at end of lecture



CS196

Linked Lists



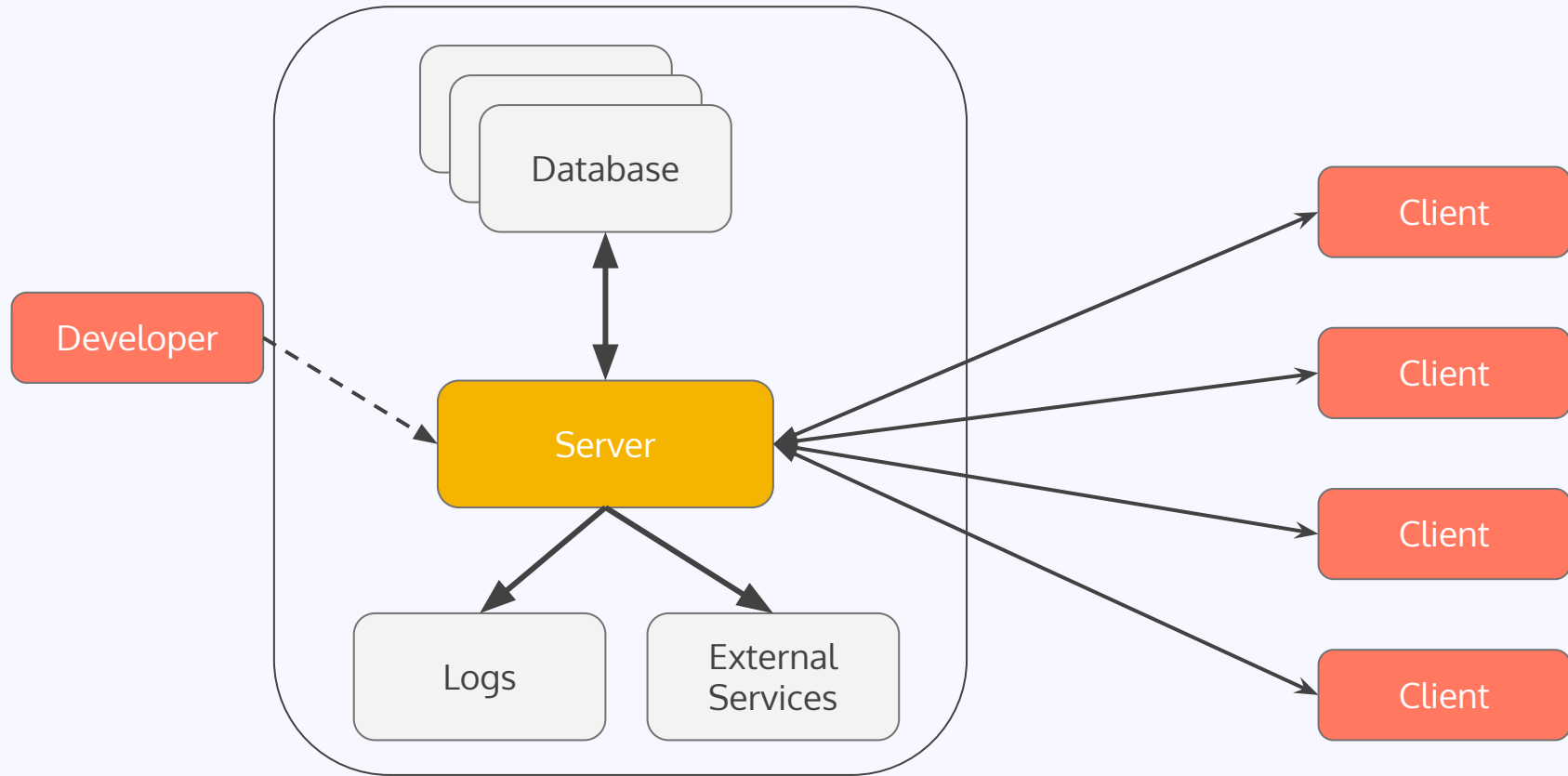
CS196

Deploying

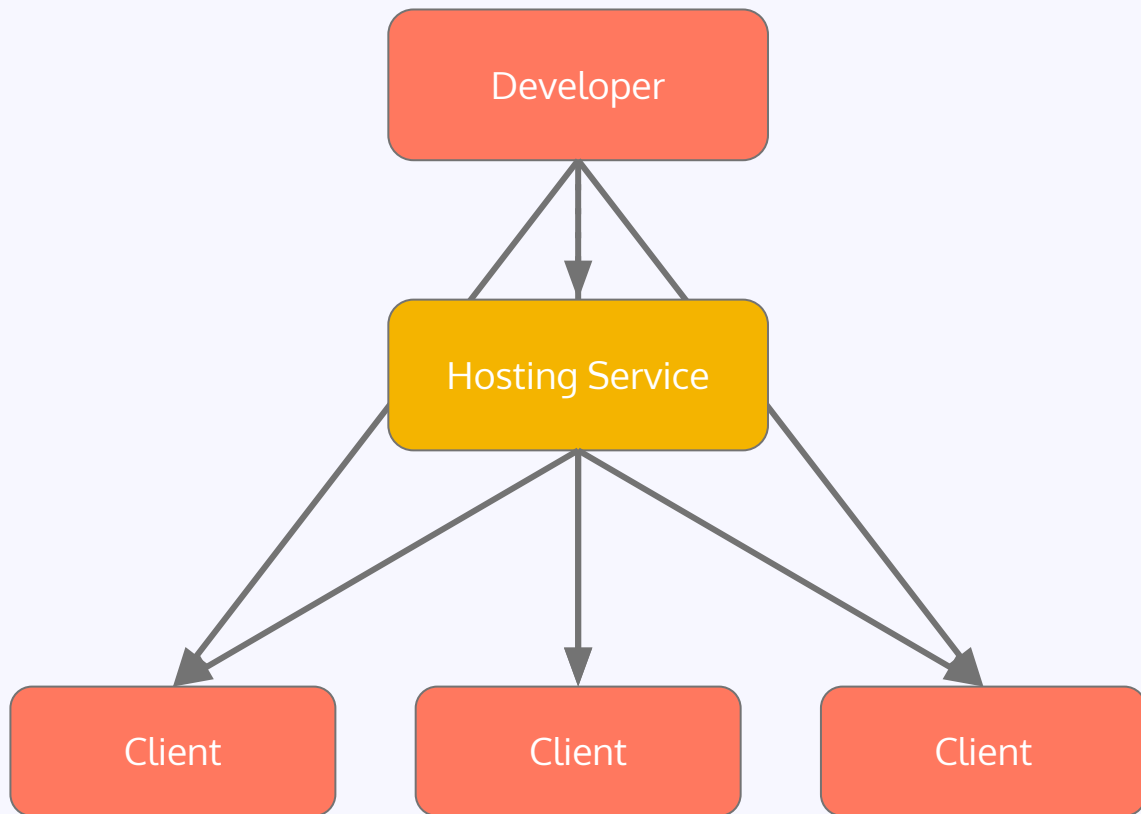
You've built the next
big thing. Now what?



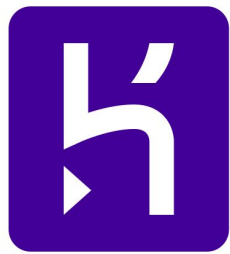
Share it with the rest of
the world!



Basic model of deploying code



Options



Microsoft
Azure



Google Cloud Platform



Case Study

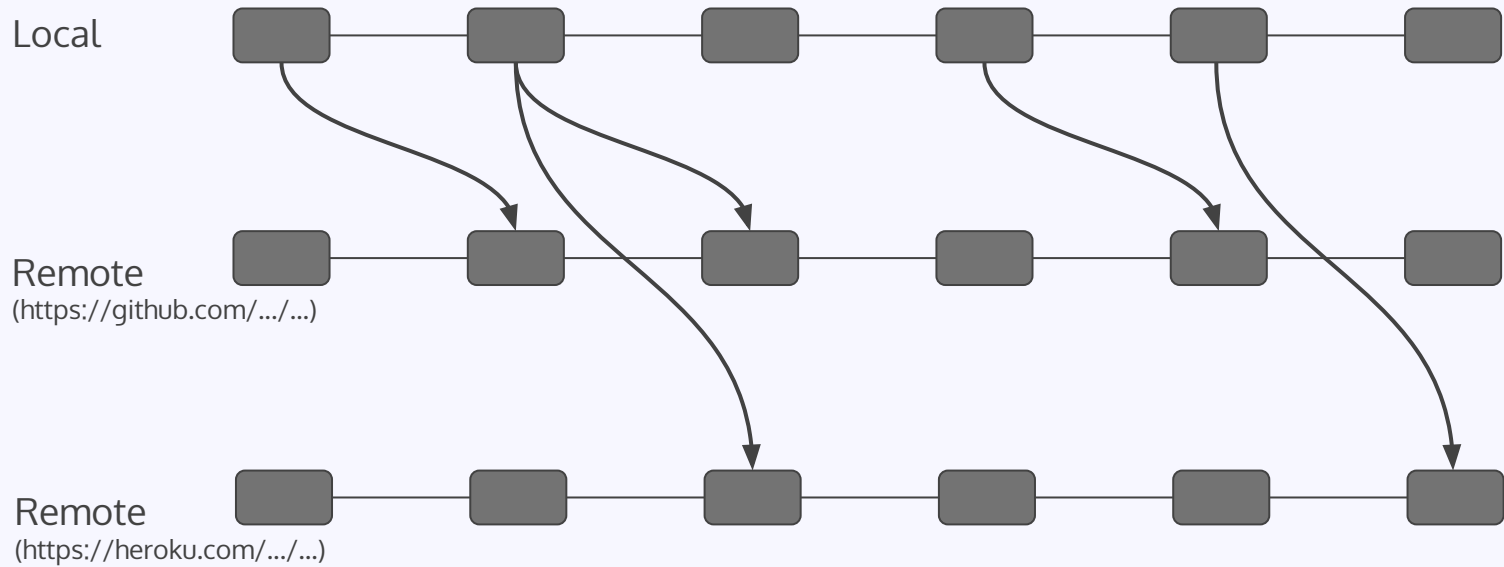
Python server on Heroku

PostgreSQL integration

Github workflow


```
> sudo apt-get install heroku      # Linux
> brew install heroku/brew/heroku # MacOS (w/ homebrew)
Or use installers from heroku website
> heroku login
  Enter your Heroku credentials
  Email: you@illinois.edu
  Password: ****
> mkdir myapp
> git init
> git add .
> git commit -m "web part 2: electric boogaloo"
> heroku create
heroku https://git.heroku.com/illuminati-confirmed.git (fetch)
heroku https://git.heroku.com/illuminati-confirmed.git (push)
> git push heroku master
```

Digression: "git push heroku master"



```
> heroku addons:create papertrail
```

```
> heroku addons:open papertrail
```

```
Oct 23 18:02:05 root heroku/web.1: Listening on 24601
```

```
...
```

```
> heroku addons
```

Add-on	Plan	Price	State
heroku-postgresql (postgresql-parallel-49191) └─ as DATABASE	hobby-dev	free	created

```
...
```

```
> heroku pg
```

```
== HEROKU_POSTGRESQL_BLUE_URL (DATABASE_URL)
```

```
Plan:      Hobby-dev
```

```
Status:    Available
```

```
...
```

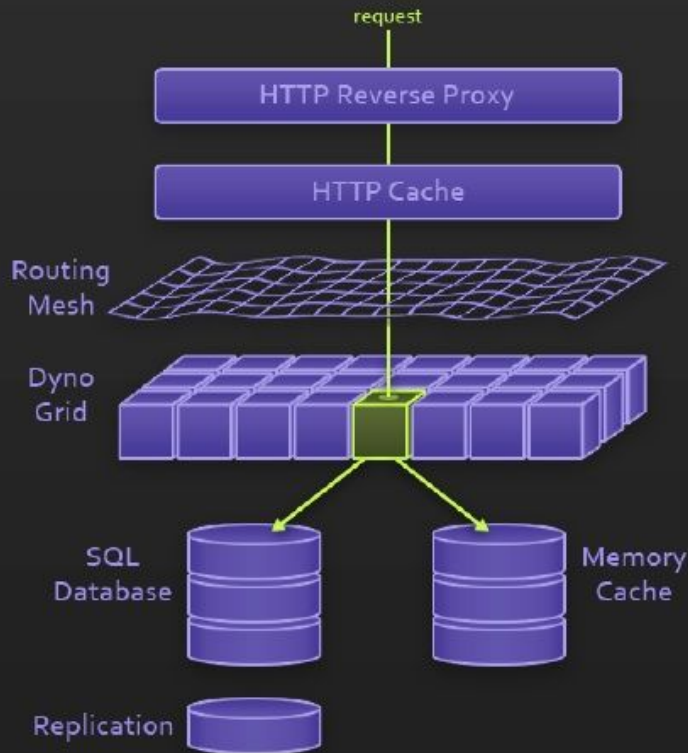
```
> heroku pg:psql
```

Miscellanea

1. Procfile
2. App dependencies
3. Config variables

How does this actually work?

- HTTP Caching
- Routing Mesh
- Asynchronous Messaging
- Dynos
- Slug Compiler



Questions?

Keyword

Hacktoberfest

<https://goo.gl/iYigpc>