



# Dispatcher

*-- a service to connect businesses with people*

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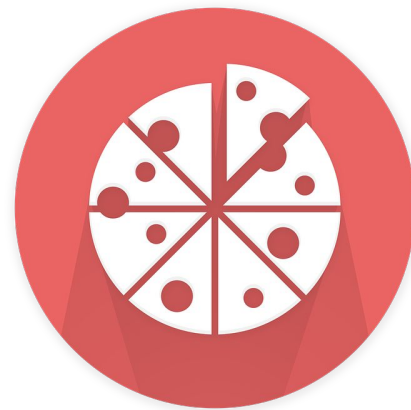
# Overview

- Inspired by the “**Uber**” model
  - A pool of workers (“**Drivers**”)
  - Drivers may be associated with zero to many businesses
  - Businesses create “**Jobs**”
  - One Driver may claim and complete any given job
- Not industry specific - any delivery/courier/offsite service industry



# Example Use Case -- Bob's Pizza Shop

- No delivery drivers;  
now wish to offer delivery
- Solution: subscribe to *Dispatcher*; approve a number of drivers through the service



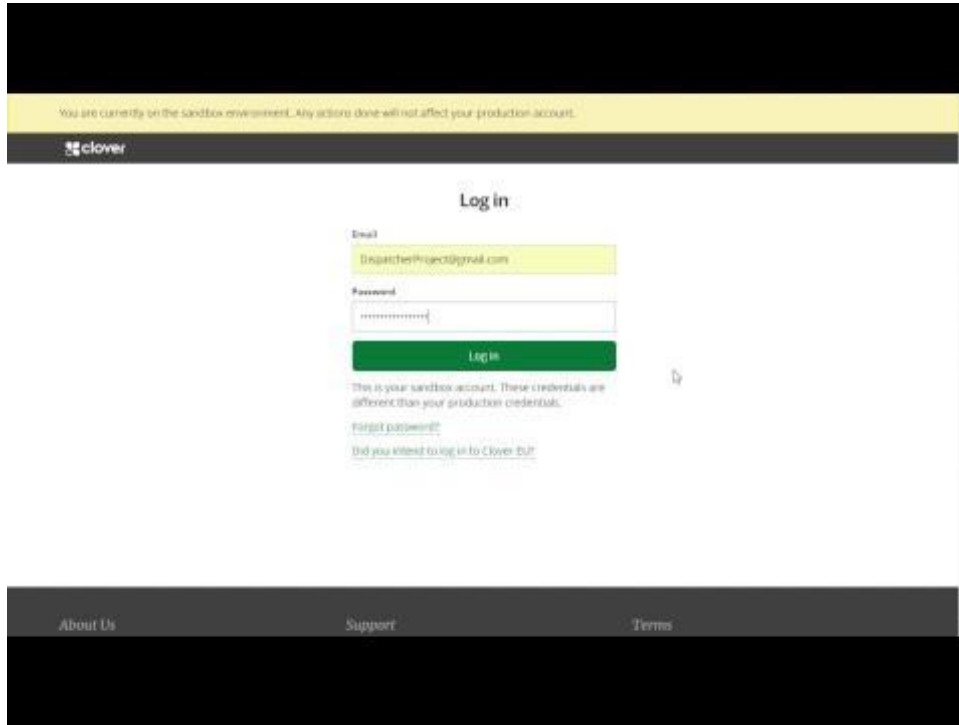
# Example Use Case -- Bob's Pizza Shop

## On reception of delivery order:

- Create job in *Dispatcher* app
- Notification is sent to Bob's network of drivers
- One driver claims the job, picks up the order, and performs the delivery



# Video Demo



[Online Link](#)

[Local Link](#)

# Supporting Technologies -- Backend

- AWS EC2 instance – Ubuntu 16.04.3 LTS
- MySQL 5.7
- Apache HTTPD 2.4 & mod\_wsgi module
- Flask; a python-based web development microframework



# Supporting Technologies -- Frontend

- Materialize CSS
- jQuery



# Supporting Technologies -- Clover


- For business authentication - oauth
- Clover REST API for business information
- *Future:* all financial transactions





# Supporting Technologies - Clover OAuth

You are currently on the sandbox environment. Any actions done will not affect your production account.

 **Log in**

## Log in

Email

Password

**Log in**

This is your sandbox account. These credentials are different than your production credentials.

[Forgot password?](#)

[Did you intend to log in to Clover EU?](#)

# Supporting Technologies --Twilio

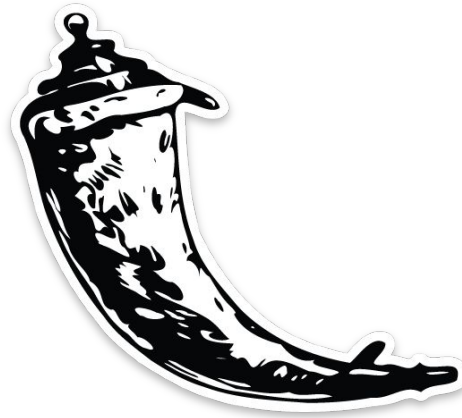
- Sending out notification of new job
- Sending out confirmation code when deregistering



# The Takeaway - Flask

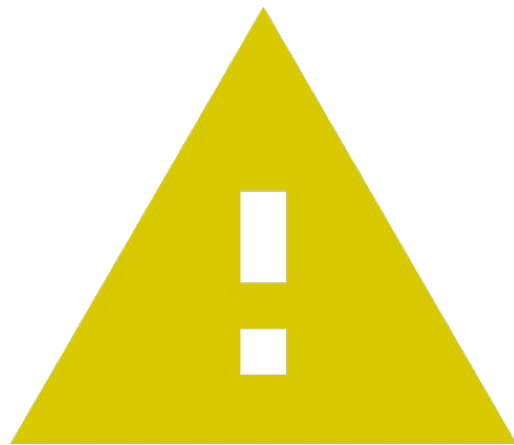
Flask was the keystone of this project

- The combination of:
  - Stupid-easy syntax (*python*: pseudocode that runs)
  - Excellent documentation
  - Popularity - many existing packages to extend core Flask functionality
  - It “just works” -- no barriers to development



# Obstacles

- New technologies
- Android app development – dropped
- OAuth
- SMS service utilization



# Acknowledgements

- Dr. Baliga
- James Strate
- Clover support



# Questions