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Problem/Motivation

- Everyone needs groceries or items from local stores
- Not everybody has cars
- Major Pain Point: It’s inconvenient
- College students are busy
- College students generally live close together
  - i.e. Isla Vista
- Why not help out your neighbors and get paid?
The Solution: Dispatchr

- Community powered mobile platform
- Users can post their item requests to a global feed
  - What items they want, from what stores
- Other users can accept requests and be compensated
  - These “heroes” earn points that help build their reputation
  - Anyone and everyone is encouraged to be a hero
- Items delivered right to your doorstep
Technologies - Backend

- Ruby on Rails RESTful API
  - Lots of basic functionality out the box to build upon
- RSpec for unit testing
  - Used for test-driven development
- Deployed to cloud via Heroku
  - Cloud Platform-As-A-Service
  - High Availability
Technologies - Frontend

- React Native
  - Write once, run anywhere: mobile, web, desktop.
- React-Redux
  - State container for JavaScript apps.
- Redux-Saga
  - Allows us to model user flows.
- React-Native-Router-Flux
  - Easy routing to screens in the app
- ES6 JavaScript
Tools Used

- Github
- Travis CI
- Heroku
- Trello
- Slack
- Hangouts
- Messenger
- Adobe XD
Development Workflow

1. Test-Driven Development
   ○ Tests must be written prior to any dev
2. Feature Implemented according to requirements
3. Pull request opened on Github
   ○ Entire test suite must be already passing
   ○ Travis CI checks must pass
   ○ 2 peer approvals required
4. Merge
System Design
Work Completed

- Custom API built from ground up
  - MVP endpoints setup: Items, Users, Addresses, Requests, Request Items
- Multi-Platform Front-End Clients: iOS, Android, and Web
  - Sign-in page
  - Global requests view
  - Personal requests view
  - Request detail view
  - New request submission
  - Landscape support
Demo
Next Steps

● Vision: Wireframe

● Work to be done:
  ○ Robust, secure login system
  ○ UI enhancements for the front-end
  ○ Real-time Notifications
  ○ Integrate Machine Learning/Artificial Intelligence
    ■ Automatically recommend items
    ■ Suggest which stores are best to pick up items
Questions?