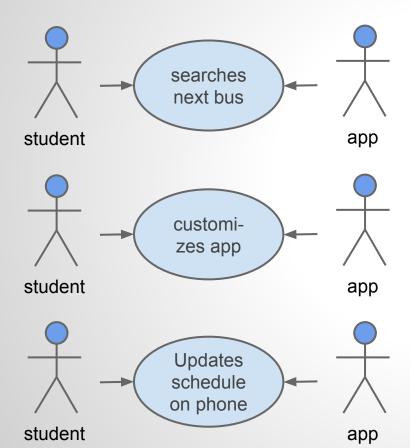
CMU Bus Tracker

Ryler Hockenbury (rhockenb)
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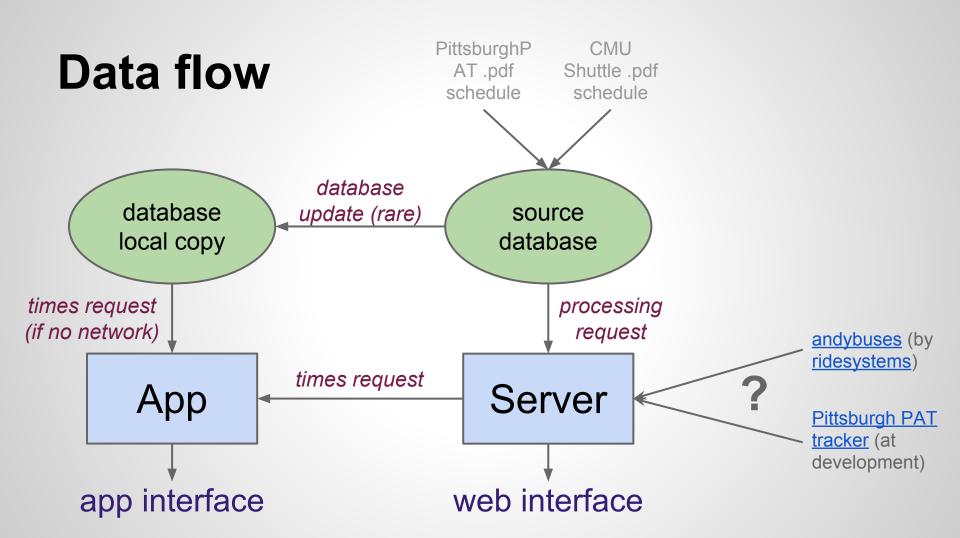
Goal - convenient bus times lookup

- simple interface
- favorite stops can be stored
- works off-line
- combines CMU shuttle and City bus schedules
- in future: real-time tracking

Use Cases

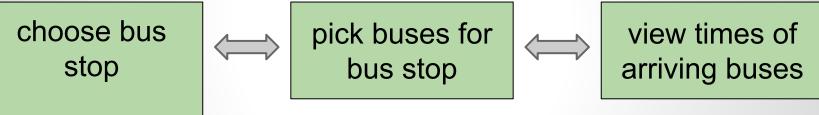






Pipeline

There is App and Web interface with the same functionality



from favorites or by distance (app), or by street (both)

App Demo (on webcam)

- Home page
- Locating a stop / searching for a stop
- Favorites (starred)
- Settings
- Update local database
- Help on each activity
- Swipes / shake to refresh
- View Schedules

Web interface demo (screen share)

- Searching for a stop
- Picking buses
- Viewing schedule

Features

- 1. Hardware Audio
- 2. Location
- 3. Network-based Geo location
- 4. GPS
- 5. Accelerometer Sensor
- 6. Motions
- 7. Gestures
- 8. Touchscreen
- 9. SQL Lite DB
- 10. Web Services

Design

Activities

GlobalManager

LocalQueryManagerManager localdatabase queries

RemoteQueryManager
- Manager connections
to server

Server

-Manages remote datebase queries

Competitors

real-time tracking
minimal pipeline
favorite stops can be stored
works off-line
both CMU and City schedules

andysbuses (cmu shuttle)

Tiramisu

real-time tracking
minimal pipeline
favorite stops can be stored
works off-line
both CMU and City schedules
is the bus full or not

Google maps
real-time tracking
minimal pipeline
favorite stops can be stored
works off-line
both CMU and City schedules

nage from post-gazet

"The Winter is coming"

The Game of Thrones



Questions?

Back up Slides

The Business Model Canvas

Designed for:

Bus Tracker - CS Labs

Daniel Stoll Designed by: Ryler Hockenbury **Evgeny Toropov**

on29/10/2013

Iteration:

Key Partners

Who are our key suppliers? Which Key Resources are we acquiring from partners? Which Key Activities do partners perform?

The Pittsburgh Port Authority for maps and schedules of bus routes.

Local universities advertising to their students.

Key Activities

What Key Activities do our Value Propositions require? Customer Relationships?

Pulling updated bus schedules from the server

Supplying up to date information fro the end users

Kev Resources

What Key Resources do our Value Propositions require? Our Distribution Channels? Customer Relationships? Revenue Streams?

Up to date information from servers

Customers' faith in product

Value Propositions

What value do we deliver to the customer?

Which one of our customer's problems are we helping to solve?

What bundles of products and services are we offering to each Customer Segment? Which customer needs are we satisfying?

Allows user to save time when traveling by bus

Saves a lot of frustration brought about by late buses and hard to find schedules

Customer Relationships

What type of relationship does each of our Customer Segments expect us to establish and maintain with them? Which ones have we established? How are they integrated with the rest of our business model?

Reliability and endurance by staying up to date with current bus schedules.

Customer Segments

For whom are we creating value?

Students and Professors at Carnegie Mellon and University of Pittsburgh

Channels

Through which Channels do our Customer Segments How are we reaching them now? How are our Channels integrated?

Which ones are most cost-efficient? How are we integrating them with customer routines?

Advertising in app store

Information sessions on Carnegie Mellon campus

Cost Structure

What are the most important costs inherent in our business model? Which Key Resources are most expensive

Marketing, promotion and communications

Staff costs

Production of application

Revenue Streams

For what value are our customers really willing to pay? For what do they currently pay? How are they currently paying How would they prefer to pay How much does each Revenue Stream contribute to overall revenues?

Purchases made through app store



Expectation from customers will be low pricing

Testing

- Activity testing (intents, swipes, mediaplayer sounds, motions)
- Database testing (queries return correct data)
- Server testing (returning populated data structures)
- Use Case testing