

Steel City Codefest

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2013



Partners



**CITY OF
PITTSBURGH**

LUKE RAVENSTADL, MAYOR

URA
URBAN REDEVELOPMENT
AUTHORITY OF PITTSBURGH



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YOUR VISION • OUR LINENS

traffic21
a transportation research initiative of Carnegie Mellon University

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Coaches



Matt Casebeer - Maya Design
Chuck Half - City of Pittsburgh
Kevin Whinnery - Twilio
Nate Good - ShowClix
Rick Gardinier - Brunner Works
Mary McGlohon - Google
Jonathan Miller - Dimples & Pop Architecture
Bud Adams - Flyer City Media
Greg Kochanski- Google
Tom Stepleton - Google
Brady Hunsaker - Google
Bob Gradeck - UCSUR
Alex Musicante - City
Mike Sabatini - Maya Design
Chris Briem - UCSUR
Bob Gradeck - UCSUR

Thank you!

Judges



Rob Stephany - Heinz Endowment

Andrew Moore - Google

Paolo Pedercini - Carnegie Mellon University

Sabina Deitrick - University of Pittsburgh

M. Bernardine Dias - Carnegie Mellon University

David Passmore - City of Pittsburgh

Thank you!

City Departments



Special thanks to the City departments that were able to make new data available for this Codefest.

Bureau of Building Inspection

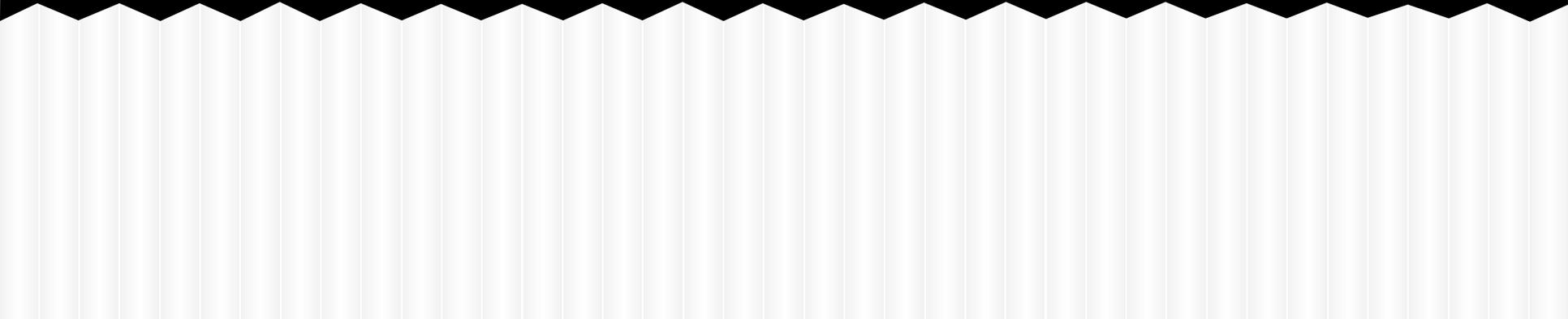
- John Jennings, Chief

City Planning

- Noor Ismail, Director

Many other departments also worked directly with the teams and we appreciate their support as well.

Semifinalists



10: OpenDataPgh



Team Name - BarkleyREI

Team Members - Sarah Swartz, David Kir, David Magerl, Joshua Petry, Eric Miller, Brian Vukmir

Audience - Anyone with an interest in Pittsburgh

Data Sets - Everything provided

Description

The application is for connecting the communities of Pittsburgh and city government through an open data platform. Empowering citizens to share, educate, and create a private-public partnership to enhance lives and solve problems together. While civic minded open data apps are becoming more popular, OpenDataPgh strives to take the consumer of data beyond the tech community to a more mainstream audience. We achieve this through the use of a simple interactive app generator



OpenDataPgh.com

BarkleyREI

14: Pittsburgh Park My Ride



Team Name - Free Parking

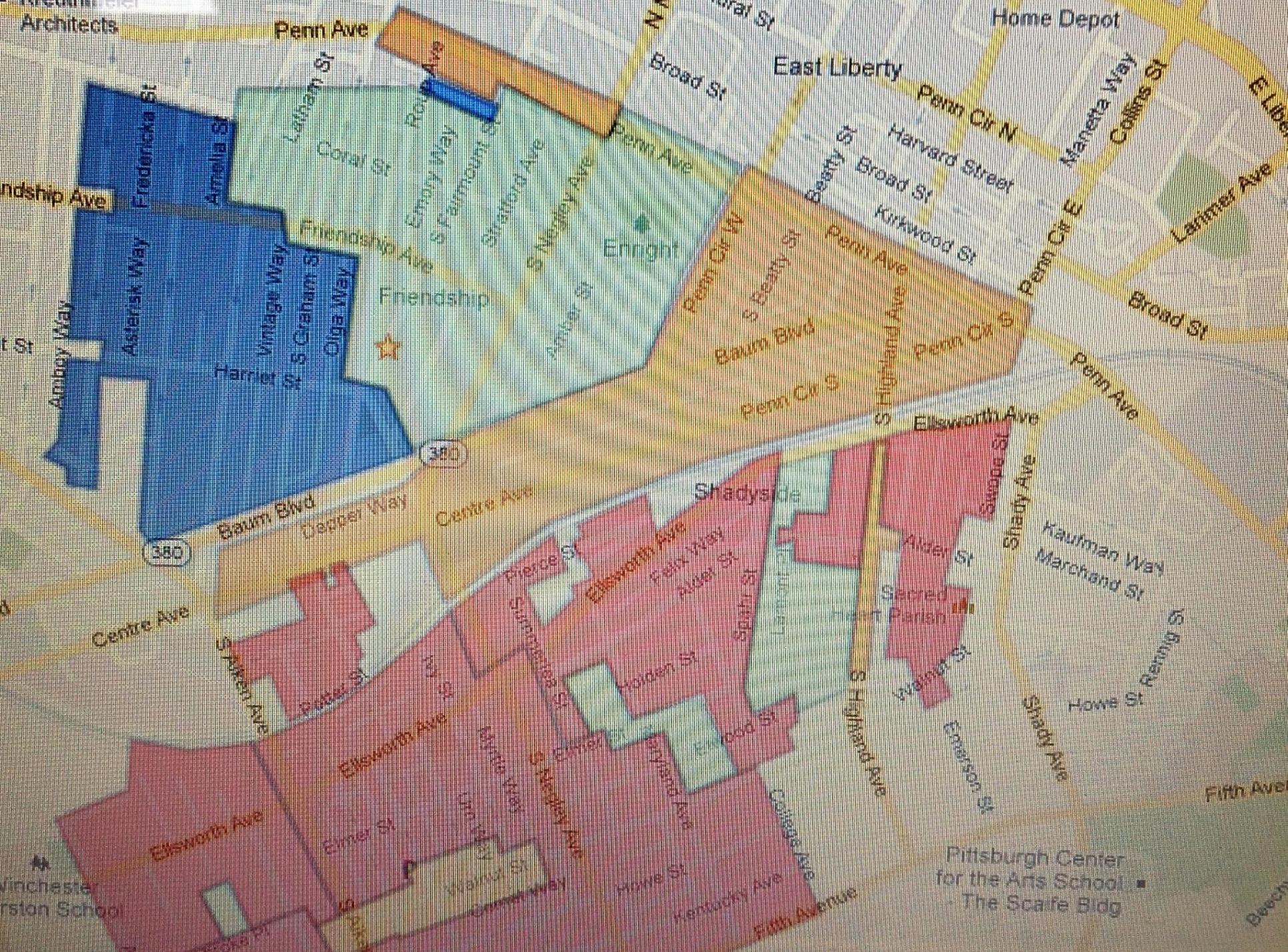
Team Members - Gabriel McMorland, Dimitri Dimoulas, Phillip Ozaki

Audience - Anyone parking a car in Pittsburgh

Data Sets - We created our own KML file using PDFs from the Pittsburgh Parking Authority's website (www.pittsburghparking.com/rppp). If the data were available in a KML or GIS format, than apps like this could display accurate information city wide.

Description

Saves you time and cuts down traffic by helping you find street parking faster. Open the app and immediately see whether the surrounding blocks are permit parking, metered parking, or permitless free parking. The app also knows from your personal settings if you have a parking permit or visitor passes in a permit zone.



Architects

Penn Ave

Home Depot

East Liberty

Enright

Shadyside

Sacred Heart Parish

Pittsburgh Center for the Arts School - The Scarfe Bldg

Friendship Ave

Friendship Ave

Baum Blvd

Centre Ave

Ellsworth Ave

Ellsworth Ave

Howe St

Kentucky Ave

Fifth Avenue

t St

Winchester

Criston School

Friendship Ave

4: Syndy



Team Name - Syndy

Team Members - Rick Cancelliere, Sissy Chen, Alexander Liu

Audience - Patients, Health Providers, Public Health Officials, Community Members, Caregivers

Data Sets - "city_planning_gis_data, Hospitals.kmz, ZipCode.kmz

We used: - openddx.net We created: - Patient records"

Description

Syndy provides health recording and decision support to mobile users while leveraging the data to support public health and welfare.



SYNDY
PERSONAL HEALTH DIARY

rick cancelliere
alex liu
sissy chen



PROBLEM

no clear way for citizens to support public health or record personal health symptoms

USER STORIES

VALIDATION

N



SOLUTION

empower citizens with a simple, helpful and fun hipaa-compliant symptom diary that provides decision support to the citizen and auto-anonymous reporting to public health resources

DATA

hospitals, national disease and symptom db, ACHD / CDC reporting



6: ParkIt



Team Name - The Jetsons

Team Members - Abhijit Nukalapati, Brad Moeller, Nick Tate, Chris Brack, Jeffrey Shebetich

Audience - Parking Commuters with iOS / Android Devices

Data Sets - Data for the parking system was not made available however this is a list of data that would be required to make the app fully functional for the public.

Data out: Payment and vehicle information -Data in: Number of cars parked at all kiosks with location information; Pittsburgh Parking Zones (geographic and rate information),API for Cale Parking System

Description - Allows a user to pay for parking from their mobile device. The zone of parking is determined based on GPS. Payment and Vehicle License plate info is sent to the CMS of the Cale Parking system (currently used by the city of pgh). Notification is sent prior to expiration and value can be added if the user has not reached maximum parking time. A heat map is displayed prior to parking to show an estimate of the number of spots available. Also, a feature is present to allow businesses to validate and pay for a customers parking.



Allows people to pay for metered parking with their mobile device by working with Pittsburgh's new web-enabled payment kiosks.

Features

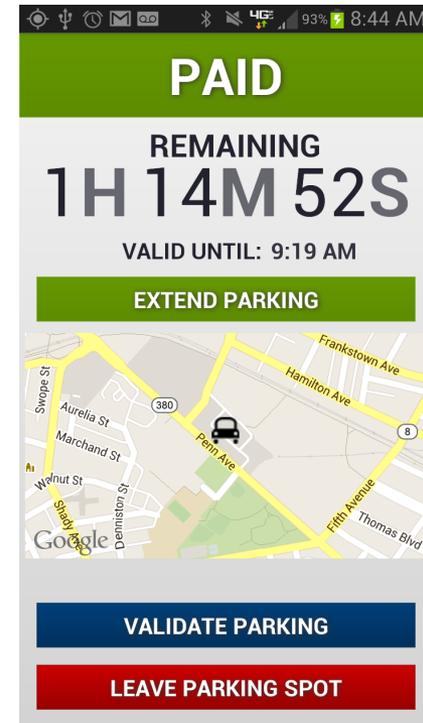
- OCR for License Plate Input
- Parking Heat Map
- Pay with Mobile Devices / Add Value Remotely
- Validation at Business
- Notifications for time expiration
- Initial registration takes less than 5 minutes
- Payment for Parking takes less than 30 seconds

Data

- Integration of Web Services from Cale America (Developer of the new pittsburgh parking system)

Future Thoughts

- Possibly charge exponentially for overages, avoiding tickets yet receiving more income
- Garage Support with NFC
- Collect internal data set on parking trends



19: enLightened



Team Name - Power Rangers

Team Members - Gerry Ehlers II, Demeng Chen, Hao Gu, Alex Hendershott

Audience - Anyone who pays energy (i.e., utility or gas) bills.

Data Sets - Zip data, census data, all polygon boundary-related data, borrowed and made-up addresses, mock energy usage and billing data

Description

Enlightened enables energy, cost and environment-conscious people to share and compare their energy usage and cost data with other, likeminded, people across neighborhoods, zips, cities/municipalities, counties and states. Some of the goals include allowing users to A) be aware of their usage compared to similar residences any given map level, B) share information about how they saved money by annotating improvements to their residence over time, C) cut down on energy usage and spending (personally and by helping others) and D) take part in our social energy conservation movement and efforts.

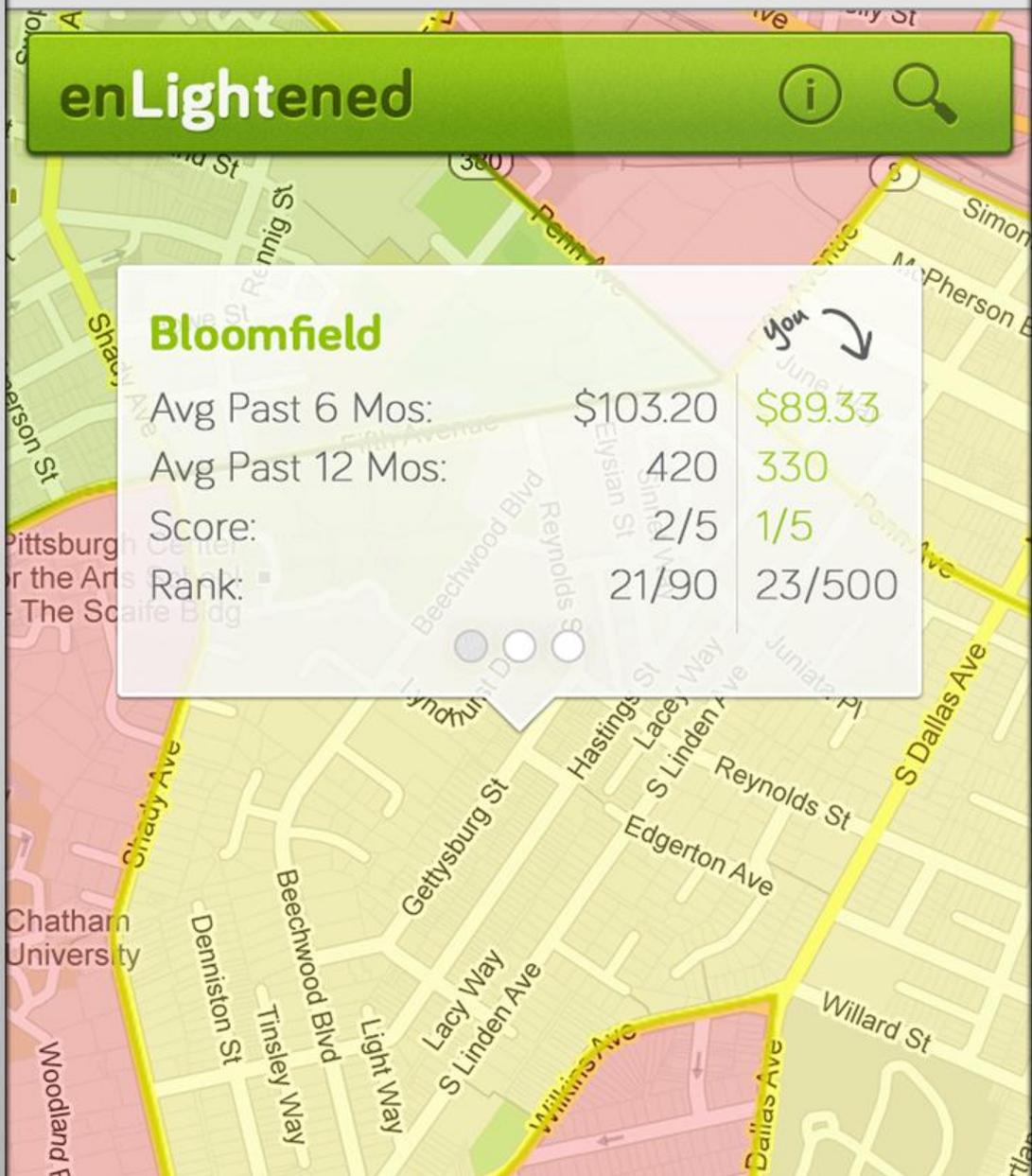
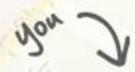


enLightened

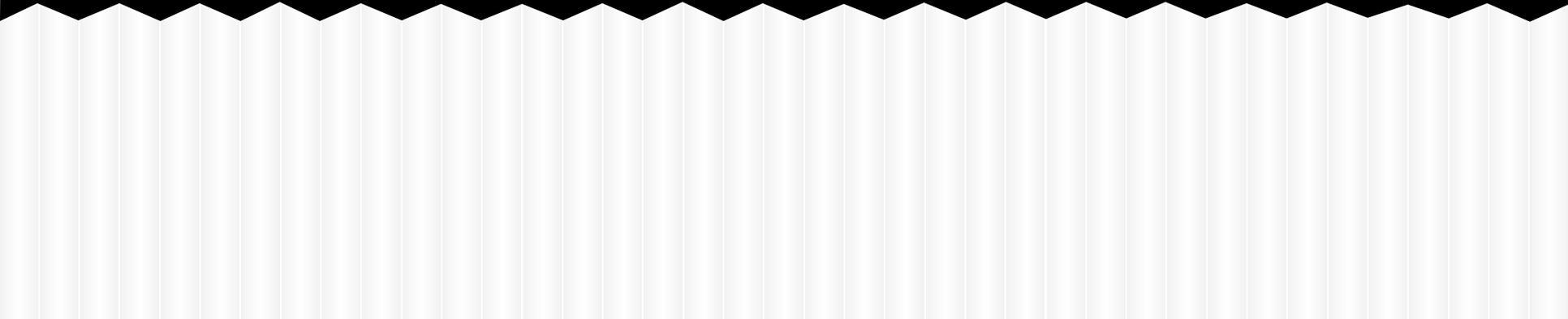


Bloomfield

Avg Past 6 Mos:	\$103.20	\$89.33
Avg Past 12 Mos:	420	330
Score:	2/5	1/5
Rank:	21/90	23/500



Congratulations to all our teams!



1: Green Perks



Team Name - Team AJ

Team Members - Adam Ratana, Alex Cline, Alex Conrad, Anthony Levin-Decanini, Jeremy Hedges

Audience - It's complicated

Data Sets - Bureau of Environmental Services Refuse Collection Schedules, Pittsburgh Public Works Recycling Division data

Description

Green Perks rewards Pittsburghers for helping redd up the city. Users play a data-driven, location-based mobile game using NFC technology. They earn discounts by recycling, participating in clean-up events, dropping off bulk items at reuse centers, and more.

2: I <3 Neighborhood

I ♥ Neighborhood

Team Name - I <3 Neighborhood

Team Members - Joseph Ball, Douglas Berdeaux, April Clisura, Marita Garrett, Carlos Gasca Yanez, Vladimir Mollov, Joe Satovich

Audience - You, your neighbors, your friends (any community member)

Data Sets - City of Pittsburgh KML files: Neighborhood, City Border, County Municipal Boundaries, Greenways, City Property

Description

I <3 Neighborhood is an app for passionate people that connects neighbors to make a difference in our communities' future. Anyone can create a project idea, post a location fertile for community intervention and either volunteer, donate, or just "send a heartbeat" to support an existing project idea. Major features include a map/list view of projects, ability to comment on projects, and a dashboard view of your project's progress in attracting interest.

3: Steel City Redd Up



Team Name - Spitfire

Team Members - David Rush, Jim Skerritt, Nate Bridi, Shawn Rancatore, Ben Paul, Geoff Misek

Audience - Pittsburgh Citizens

Data Sets - We didn't make use of any of the provided data sets. There are ways in which we envisioned usage of some of the provided data, but in reality, our idea is not dependent on the data, and is only enhanced by it.

Description - Pittsburghers love their city, but they don't always feel engaged within the community. Our mobile app allows citizens to report unkempt areas. It then allows fellow citizens to find reported areas near to them to target their clean up efforts, analyze them, and share them. The original submitter gets a notification when their issue has been resolved, and an after photo, to appreciate the improvement, thus encouraging their community engagement.

5: Build Phase



Team Name - Space Monkeys

Team Members - Tom Amon, Daniel Hartenbach, Arthur Marks
Michael McLaughlin, Matt Dempsey

Audience - Everyone

Data Sets - Data submitted from MySQL database that is being pushed to the database via Android Phone

Description

1st part is the Android Application that will allow the user to take a picture of potholes, road hazards, etc maintained by the city. They can add comments to the photo and upload the information (with Geo location) to a MySQL database.

2nd part of the Application is web based that will allow the user to vote via a star rating system and update the status of the issues. This is using jQuery and Google maps to display the data in the browser that will reference the data from the MySQL server"

7: Redd Up Recycle



Team Name - Gobius Industries - Redd Up Recycle

Team Members - Andrew Mshar, Mark Duffy, Nigel Wright

Audience - All dwellers in the City of Pittsburgh

Data Sets

http://www.city.pittsburgh.pa.us/pw/html/collection_schedules.html

http://www.city.pittsburgh.pa.us/pw/html/drop-off_information.html

<http://apps.pittsburghpa.gov/dpw/guidelines-20131.pdf>

Description

"This application is a web based application that helps solve the everyday problem that pittsburghers have - how to properly redd up recyclable materials in the city. From your district's garbage collection date (something that is not readily accessible without either calling the collection company or viewing three pdf files), to determining places to drop-off either large quantities of recyclable materials or potentially hazardous materials (CRT monitors) or exploring other options like upcycling working electronics - this app will allow you to make the best informed decision as to your waste disposal. We prepared a brief presentation highlighting the economic benefits this app would have for the city https://docs.google.com/presentation/d/1CFx771PVco_2u6Ulphc87Pig0a70VeX1DajFcV1hpbY/edit?usp=sharing

8: My Pittsburgh



Team Name - F5

Team Members - Vara Pinnamaraju, Sekhar Adari, Vijay Jayaram, Siva Juluru, Ramu Garapati, Walter Robinson

Audience - Public

Data Sets - Port Authority, Street Data, School Street data, School PSSA data, Township addresses

Description

MyPittsburgh is an android based mobile application that has a virtual dashboard that incorporates the individual apps related to Pittsburgh and surrounding areas. Bus Transit, Find a School and Find an event are currently the three mobile/dashboard apps which are part of this dashboard. This can be enhanced to have multiple apps which allow's the user a great experience within Pittsburgh and its surrounding areas. The dashboard is designed to act as a place holder to hold more apps which are designed for the city. The current apps that are on it are - My Pittsburgh, Pittsburgh Transit, Find a School, Find an event.

9: Plan Pittsburgh



Team Name - Design Democracy

Team Members - Rob Pfaffmann, Terry Doloughty, David Randall
Ben Eckart

Audience All Pittsburgh Residents

Data Sets - Planning Commission meeting agendas. City GiS for neighborhood boundaries. Contextual inquiries.

Description

Residents and Community Leaders are heavily involved in maintaining the quality of life in Pittsburgh's 89 neighborhoods. Whether its is large non-profit Community Development Corporation or a small block club, the Plan Pittsburgh app is intended to be a portal and guide into the sometimes confusing world of planning, design and building Pittsburgh. Like Chicago's "Open City" group we see our proposed app using open planning data to improve transparency and citizen understanding of core government planning functions and improving the design of our City.

11: Hapn.at



Team Name - Football Jeggings, Say Again?

Team Members - Chris Shoff, Brent Nichols, Jenny Patterson, Rob Stinogle, Jacob Swartwood, James Geisler

Audience - Anyone

Data Sets - We created a data set of upcoming events and used a public RSS feed from Pollstar for a list of upcoming concerts in Pittsburgh. We did not use any of the data provided by Codefest.

Description - Never miss another event you didn't know existed.

Hapn.at shows a relevant feed of events personalized based on your interests, and the interests of your friends. It encourages users to enter events they plan to attend. Don't spend another Friday night at home. ""Y'inz find aht wuts Hapn at Pittsburgh"" , said Luke Ravenstahl probably."

12: Pittsburgh Neighborhood Search



Team Name - Team Steelerstahl

Team Members -Ryan Lauer, Walt Impellicceiri, Dan Lamoureaux

Audience - Businesses and prospective renters/home buyers

Data Sets - Census API, Flickr API, Google Maps API, Zillow, CityGrid API

Description

The app allows you to apply various filters in order to find the neighborhood/demographic that suits your needs.

13: Whoa, Buddy!



**WHOA,
BUDDY!**

Team Name - TEAM APP!!1337

Team Members - Ashley Andrews, Ashley Andrykovitch,
Ciaran O Conaire

Audience - Social media users

Data Sets - Simulated data set of local organization information and interaction between users and local organizations.

Description - An app that encourages "IRL" interpersonal interactions by prompting users to rethink their posts to social media. Using the psychological technique of "nudging", which makes the act of posting slightly more challenging, users must justify their posts and are encouraged to ween off social media in favor of participating in live local activities and in-person interactions. "Whoa, Buddy!" is a community-building app.

15: I Got the 311



Team Name - AoV

Team Members - Danny Sullivan, Tom Hayes

Audience - Neighborhood Citizens

Data Sets - none

Description

An app that allows citizens to report all sorts of 311 incidents (potholes, downed trees, abandoned cars, etc) with geo location, pictures and details. In addition, the app will allow them to post to a public site, where other neighbors can view, comment and upvote incidents that they also want to be resolved. In its full implementation, the app will also interface with the city's 311 call center, and allow much easier integration of disparate sources of 311 incident data, such as phone, email, text etc. It will also allow city employees to review and validate reports, prioritize and expedite the resolution.

16: PGH SMS



Team Name - Atomic Lock

Team Members - Morgan C Culbertson

Audience - Everyone

Data Sets - None

Description

PGH SMS is an Android application that is a mix between Google Latitude and a local sms app. The primary function of the app is to act as an intermediary for group events and chat. It is an overlay of Google Maps with user created events composited over top. The catch is that when someone posts an event, they set a radius at which that event expands to so only other users within that radius can access and respond to it. This would allow communities and individuals to 'shout' events and meetings to their street, neighborhood or city. The possibilities are endless!

17: Civic Heroes



Team Name - Civic Heroes

Team Members - Lya Laberge, Jon Parise, Daniel Abeshouse, Michael Darweesh

Audience - Citizens with Smart Phones

Data Sets - SeniorCenters.kmz, recreationcenters.kmz museums.kmz hospitals.kmz historicssitespoint.kmz historicssitespolygon.kmz

Description - Achieving civic engagement through check-ins and social sharing

18: Fall in Love with Pittsburgh



Team Name - FILP (Philip)

Team Members - Matt Cipperly, Spencer Whitman, Halley Martin

Audience - Anyone who is in Pittsburgh - visitors and residents!

Data Sets - Unique datasets: - Location and hours of operation details pulled from Google Places API, - Children's activities and venues pulled from AfterschoolPGH (SPARC) Codefest datasets: - Parks, - Pools
- Historic Buildings, - Recreation Centers, - River Front Trails, - Ball Fields, - Schools

Description - We'll be displaying some activity types -- feel free to click on anything that interests you. This will help us get a good idea of what you're looking to do while in Pittsburgh! If you're in a group, feel free to have each person add their favorite interest. We'll make some calculations and help you find the right thing to do -- easy to navigate on a phone, tablet or PC."

20: MooWing



Team Name - PittFighters

Team Members - Andrew Matheny, Dhruv Gami, Kevan Kelleher
Ricky Hussmann

Audience - Those interested in moving to Pittsburgh

Data Sets - None at the moment. We're hoping to replace our mocked data with actual data before judging.

Description

MooWing is intended to help those interested in moving to Pittsburgh find a neighborhood that aligns with the important aspects of their life.

Steel City Codefest

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2013

