#### Ubiquitous and Mobile Computing CS 4518: ExploreGreaterWPI

Gina Gonzalez-Roundey Obatola Seward-Evans Nata Vacheishvili

*Computer Science Dept. Worcester Polytechnic Institute (WPI)* 



# How much of the WPI area did you know Freshman year?



# How many days did it take you to explore off campus?

## **The Problem**



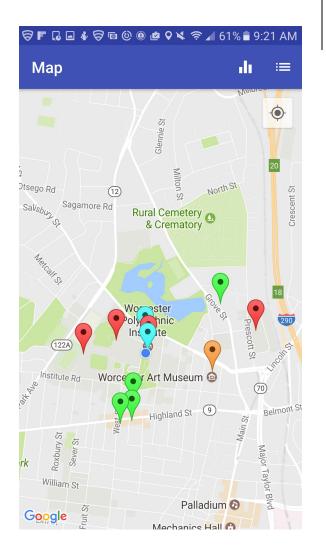
Students who spend most of their time on campus...

- Do not contribute to city culture.
- Do not have a clear sense of the city their school resides in.
- Do not appreciate their surroundings.

## **ExploreGreaterWPI**

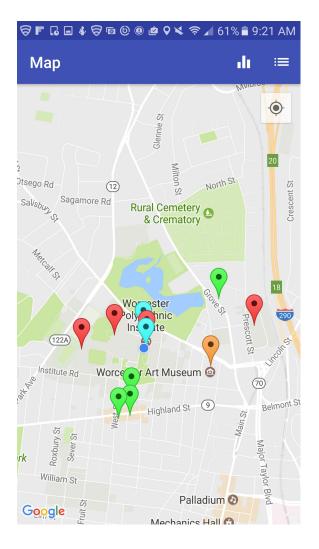
Application will be a way for students to explore the greater WPI area.

- Used by students who want to leave campus but don't know where to go.
- Used by Insight groups.
- Used by freshman to find food and entertainment.
- Used by new professors





#### **See All Locations**





- Main Activity of Application
- Displays all location and User's current location
- View Markers by location theme
  - WPI Facilities: RED
  - Culture: ORANGE
  - Food: GREEN
  - Visited: CYAN



#### **Summarize Locations**

- View Locations by name
- See distance from user to location
- View Locations that have been visited already

🗕 🕻 🖇 F 🗟 Te 🛈 🖲 🖻	🗙 🛜 🖌 79%	∎ 2:57 PM
UrbanAdventure 11 locations unvisited	e ili	VISITED?
Worcester Polytechnic Institute		
WPI Facility - 0.0 mi		
Rec Center		
WPI Facility - 0.2 mi		
The Bean Counter		
Food - 0.2 mi		_
Fuller Labs		
WPI Facility - 0.1 mi		_
Worcester Art Museum		
Culture - 0.2 mi		
Moore Pond		
Culture - 8.2 mi		
Gordon Library		
WPI Facility - 0.0 mi		_
Campus Center		
WPI Facility - 0.1 mi		
Wooberry Frozen Yogurt & Ice Cre	am	
Food - 0.3 mi		
The Boynton Restaurant		
Food - 0.2 mi		
The Fix		
Food - 0.3 mi		
Gateway Park		



#### **Get Location Information**



#### Campus Center WPI Facility - 0.1 mi

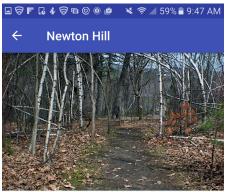


WPI's Rubin Campus Center is at the crossroads of the campus. Whether you want to pick up your mail, grab a cup of coffee, or host a meeting, the Rubin Campus Center fits all these needs. It's home to our Bookstore and Food Court, the Office of Student Affairs and Campus Life , as well as a comfortable location to study or visit with friends. Enjoy a concert on the patio, meet for lunch, catch a comedy show on the stage in the Food Court, reserve a room for a meeting, grab a coffee at Dunkin' Donuts, or relax in the Class of 1946 Lounge.

- If Location has phone number allow user call
- User can get directions to location from Google Maps
- User can Visit website relating to the location



## **Locations for everybody**



Newton Hill Culture - 0.8 mi

PHONE	DIRECTIONS	WEBSITE

The Newton Hill portion of Elm Park (west of Park Avenue) remains minimally landscaped and contains basketball and tennis courts, walking trails and also Doherty Memorial High School, a high school within the Worcester Public Schools system.

#### 🖃 🛜 F 🗔 🆸 🗟 🕲 🕲 🔷 🛛 😒 🧟 59% 着 9:47 AM

← The Fix



The Fix Food - 0.3 mi

PHONE	DIRECTIONS	WEBSITE
THOME	DIRECTIONS	WEDSHIE

Modern setting for custom burgers served with craft beers, unique cocktails & spiked milkshakes.

#### 🖬 🗟 F 🖪 🌢 🛜 🖻 🕲 🚇 🔺 🤝 🖌 60% 🛢 9:46 AM

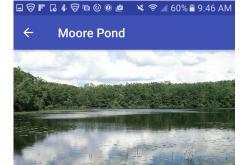
← Worcester Art Museum



Worcester Art Museum Culture - 0.2 mi

PHONE	DIRECTIONS	WEBSITE

The Worcester Art Museum, also known by its acronym WAM, houses over 35,000 works of art dating from antiquity to the present day, representing cultures from all over the world.



Moore Pond Culture - 8.2 mi

PHONE	DIRECTIONS	WEBSITE

Moore State Park is a 737-acre public recreation area located in the town of Paxton, Massachusetts, portions of which were listed on the National Register of Historic Places as the Moore State Park Historic District in 2004.



## **Insight Group Scavenger Hunt**

- Incorporate
   ExploreGreaterWPI with
   Freshman CA groups
- Each group gets uses one phone with the app and goes to visit all of the locations in the area.



## **User Testing**

- Interesting Locations
- How far is too far for freshman?
- \$10 radius using Uber?
- 20 minute walk radius?
- Wachusett Mountain?
- How many locations is too many?
- If we add to many nobody would visit all of them.





# What are some places you like to visit in Worcester?

The Bean CounterNUMoore PondGrinWooberryOishBoynton RestaurantEscaThe FixMsBlackstone ValleyGre

NU Cafe Grime Oishi Escape the Room Ms Worcester Green Hill Park The Castle Bagel Time Antonios Pizza Rumors Rice Violet

## **Future Goals**

- External database populated with locations (Firebase)
- Put app on iPhone and Android
- Get app/game into CA group activities
- Expand gamification feature
- Campus Leaderboard
- Allow expansion into other campuses
- Create a suite of explore(college name) apps





# Thank you