Ubiquitous and Mobile Computing
CS 525M: Mid-Project Update

Steve Qian He

Computer Science Dept.
Worcester Polytechnic Institute (WPI)
Problem Want to Solve

- What’s the best physical activity for me?
  - Jogging?
    - Where? *Which trail is the best?*
  - Other activities?
    - At which venue, I can perform this activity?
      - e.g. Home
    - How long should I take this activity?
      - e.g. *Wash dishes for your wife, at least 10 minutes!*

- Provide a more friendly way of giving suggestion
  - *Task-based* suggestion
    - e.g. “Walk to Campus Center in 5 minutes will help you burn 48 cals”
Done So Far

- UI Design
- Implementation
  - On server
    - I built an API for “Photo of the Day - National Geographic”
  - On Android
    - APIs
      - Weather API
      - Foursquare API
      - Google Maps API
    - Main UI
Will Finish

- Activity logging
- Activity suggestion, based on:
  - Weather
  - Location
  - Time
  - Burnt/BestForYou
- Trail recommendation, based on:
  - Distance
  - Time
  - *Elevation Gain*