TUmap Final Presentation

Adama Coulibaly
Willy Lulciuc
David Mason
Sean Moogan
Benjamin Walker

Main Campus

BUILD INGS and DEPARTMENTS

- 1. Arderson Hall (AR, AC, AL) 2. AnnerbergHall (AH) (VRTI)
- 3. Atlantic Terminal (Privately DevelopedHousing)
- 4. Averue North/Complex 4A Student Housing 4B. Shops
- 5. Beptist Temple
- 6. Barrad: Hall
- 7. Barton Hall (Physical Science) 7A north 78. south
- 8. Beury Hall (BE)
- 9. Biology-Life Sciences Building (BL)
- 10. Campus Police Sub-Station
- 11. Campus Safety Services
- 12. Carnell Hall
- 13. Convell Hall (CW)
- 14. Convell House
- 15. Edberg-Olson Football Practice Facility
- 16, 1900 Blod: Liacouras Walk (student services)
- 17. Engineering and Arditecture (EA)
- 18. Entertainment and Community Education Center and retail shops
- 19. Facilities Management Office
- 20. Founder's Garden
- 21. Gadfelter Hall (GH)
- 22. Hardwick Hall (student housing)
- 23. Hillel Fourtletion
- 24. Smira leffies (student housing)
- 25, Johnson Hall (student housing)
- 26. Kardon Building (Privately Developed Housing)
- 27. Klein Law Building (James E. Beasley) School of Law)
- 28. The Liacouras Center 28A Either Boyer Theater 28B Independence Blue Cross Recreation Center
- 29. McGorigle Hall (MG)
- 30. Mitten Hall (Diamond Out)
- 31. Newman Center
- 32. "1940" (student housing)
- 33. Oxford Village (Privately Developed Housing)



- 34 Paley Library (PL)
- 35 Peabody Hall (student housing)
- 36 Pearson Hall (PH)
- 37. Presser Hall (FR)
- 38 Fitter Hall Armex (RAV Kive Auditorium
- 39 Fitter Hall (FH)
- 40 Rock Hall (RC) 41, 1700N. Broad St.
- 42. The Shops on Liacouras Walk 42A and 42B.
- 43. Shusteman Hall 44 Small Business
- Development Center (1510 Cecil B. Moore Ave.)

- 45. Speakman Hall (SP) (The Fox School of Business and Maragement)
- 46. Sports and Recreation Relds 47. Student Center Bookstore 47A. Student Center
- 47B Student Center Annex
- 48. Student Pavilion 49. Subway Station and Raza (SEPTA) 494, nathband
- 49B, southbound 50. Sulfrian Hall (SII)
- 51. Temple Towers (student housing)
- 52. Temple U. Regional Pail Station (SEPTA)

- 53. Temple University Tech Center & Welcome Center
- 54. "1300" (student housing) 55. Tamlinson Theater (TT)
- 56. Triangle Apartments (student housing)
- 57. Turtleman Learning Center
- 58. University Services Building 59. University Village
- (Privately Developed Housing) 60, WachmanHall (Computer) Mathematic 9
- 61. Wdk Auditorium
- 62. Weiss Hall (VIH)
- 63. James S. Witte Hall (student housing)



Problem

- Temple's campus is compact
 - buildings are hard to distinguish from one another
- Assistance provided is out-dated
 - stationary street corner maps are difficult to update
 - printed handouts are difficult to follow

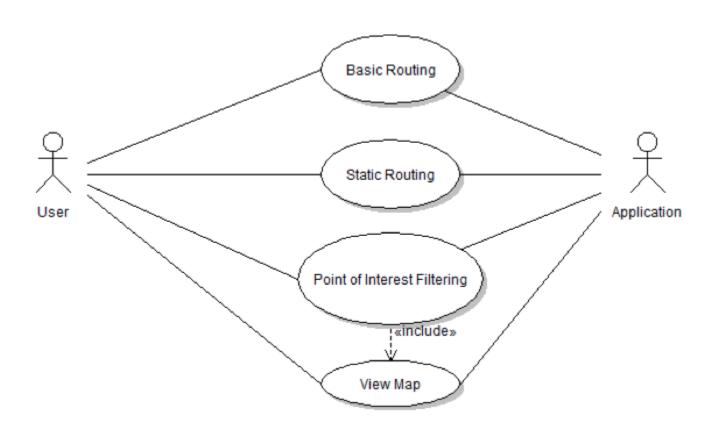
Approaches

- Host Temple's printed map online
 - Distribution and updating are simpler but readability is still poor
- Use Google maps
 - Does not take walking paths into account
 - Cannot search by building name

Overview

- assists incoming freshman and visitors
 - users can carry map around with them
- serves as a clean visual guide:
 - zoomable map
 - dynamic routing
 - quickly identify locations by name
 - more accurate walking paths

Use Case Diagram



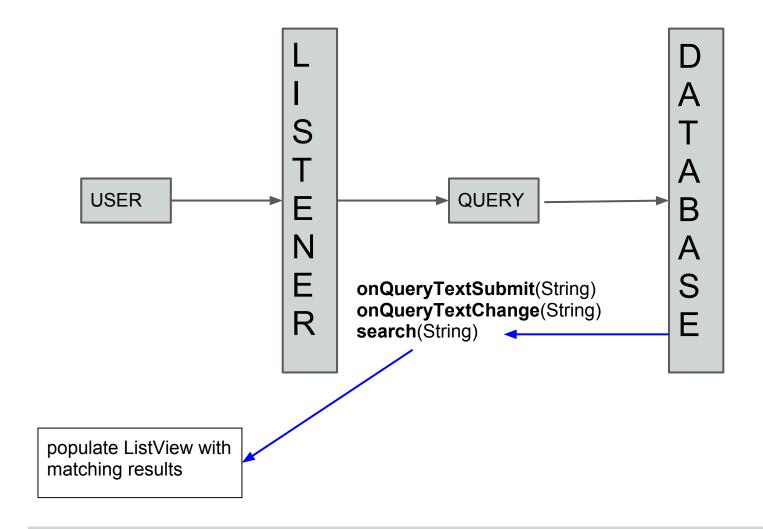
Architecture

- Platform Version
 - Android 3.0 and higher
 - API Level 11
- Widgets
 - SeachView
- Internal Data Storage
 - Android SQLiteDatabase
- External APIs
 - OSMDroid (.jar ver 3.0.8)
 - CloudMade

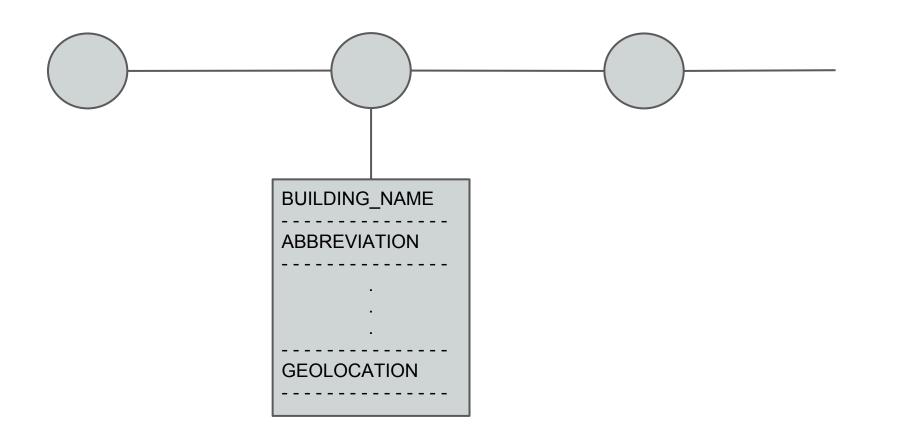


SearchView Widget

- available in Android 3.0 and higher
- interface for users to enter a search query and submit a request to the SQLiteDatabase
- populate a list of results allowing the user to choose a suggestion



SQLiteDatabase



OSMDroid (OpenStreetMap)

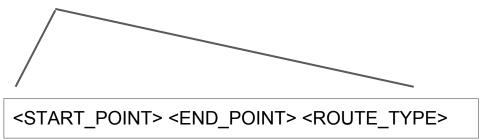
- opensource
- full/free replacement for Androids MapView class
- provides tools to interact with OpenStreetMap-Data

CloudMade

- opensource
- enables developers to build location based applications and services
- leverages rich OpenStreetMap-Data to generate routes

URL

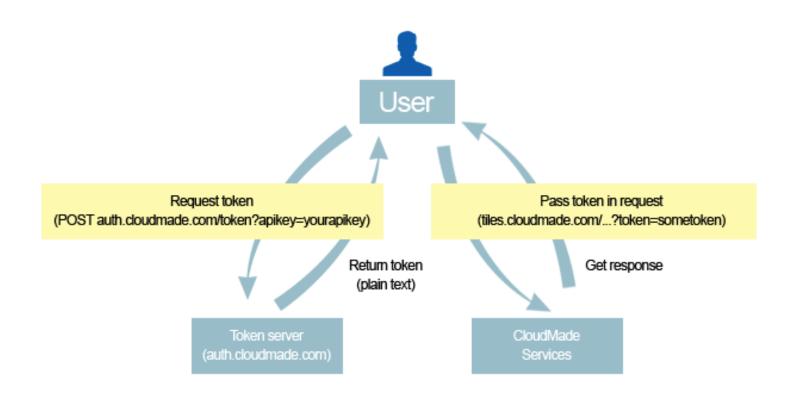
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URL

http://routes.cloudmade.com/[API-KEY]/api/0.3/ [PARAMS]?token=[TOKEN]

http://auth.cloudmade.com/token/[API-KEY]?userid=VALUE



GPX

- or GPS eXchange Format
- XML schema design as a common GPS format
- describes waypoints, tracks, and routes
- collections of points
- latitude and longitude of individual waypoints

Testing Approach & Alternatives

- Why Testing?
- Mistakes are inevitable and bugs will appear
- Tests execute slowly in Emulator or device
- No way to do TDD

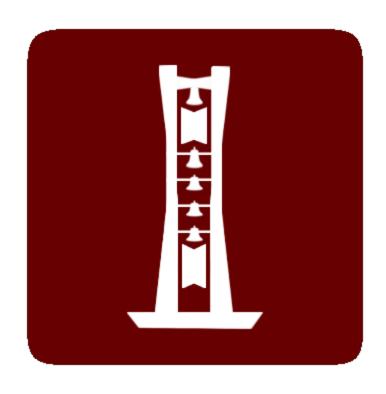
Why Robolectric?

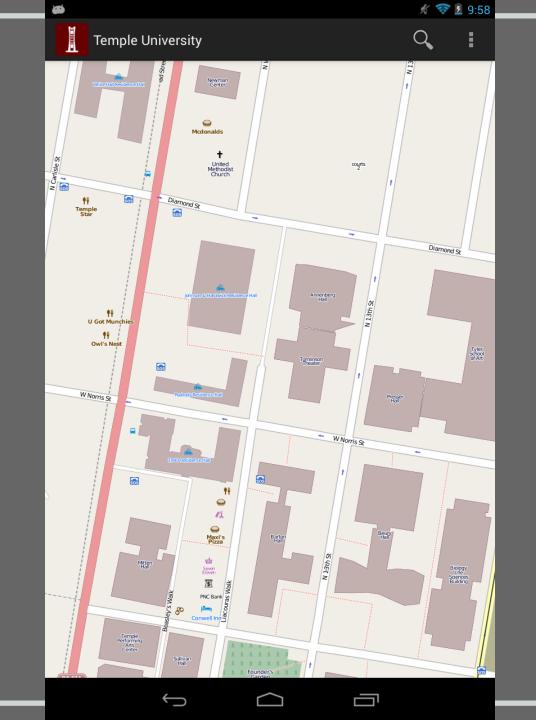
- Tests run outside of the emulator in JVM
- Iterate quickly
- Allow black box style texting
 - Features
 - Shadow Objects
 - View and Resource loading

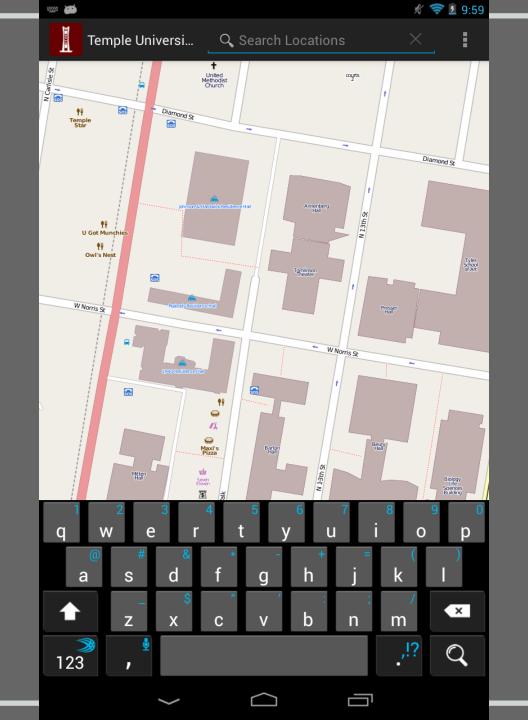


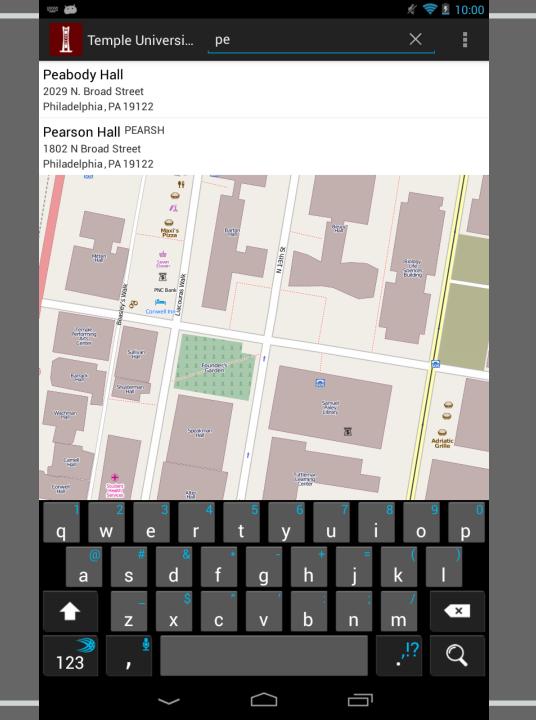
Troubleshooting

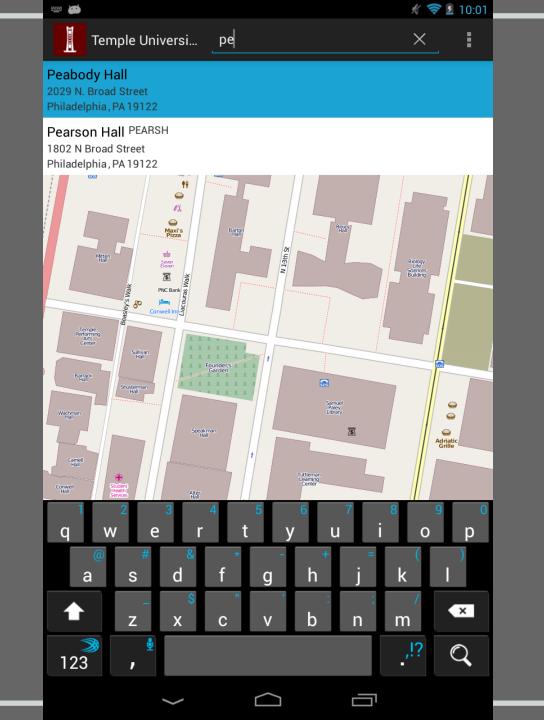
Google stripped the classes in android.jar java.lang.RuntimeException: Stub!

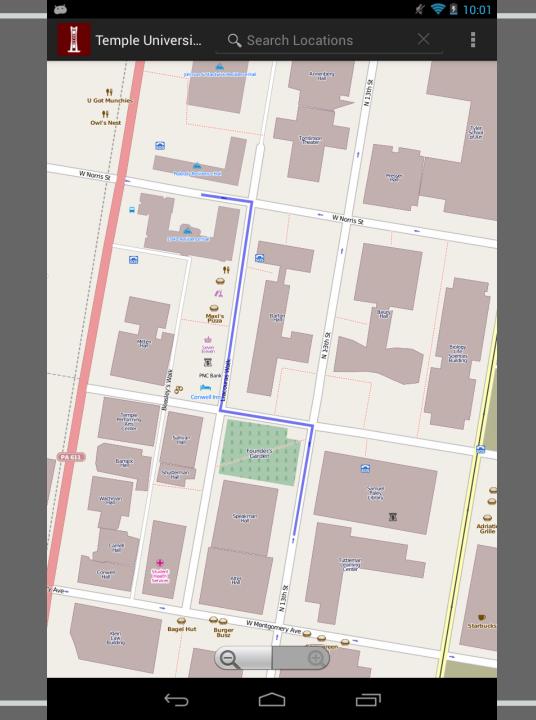


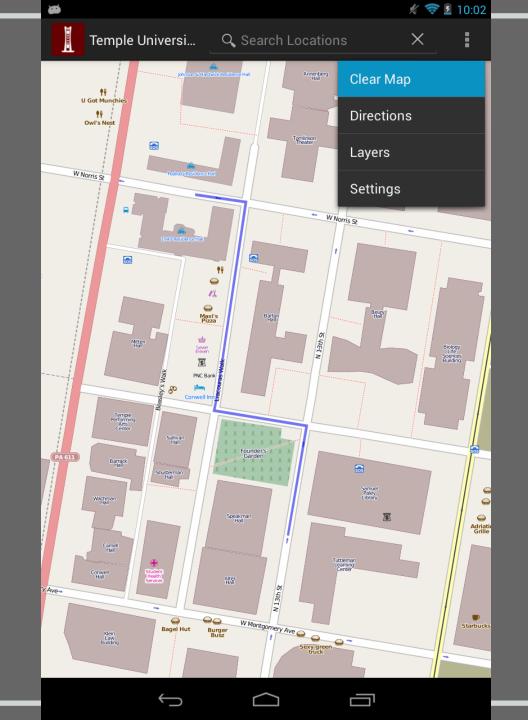


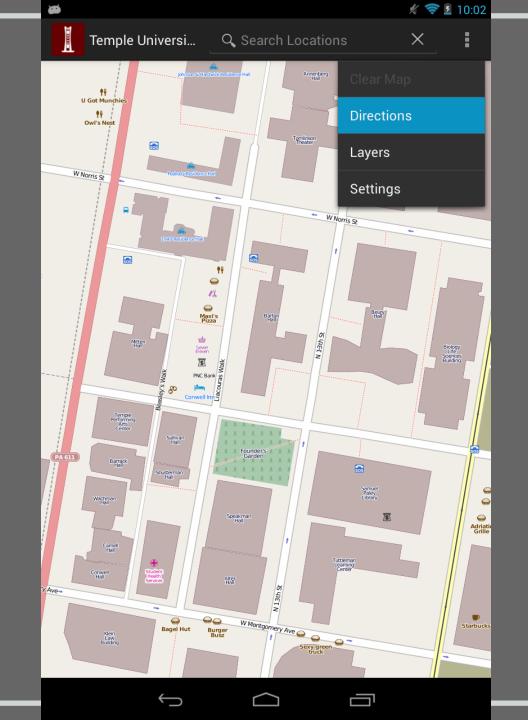


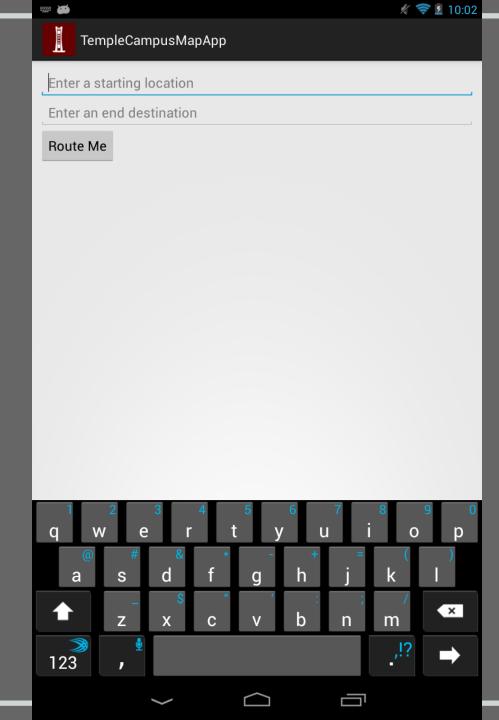


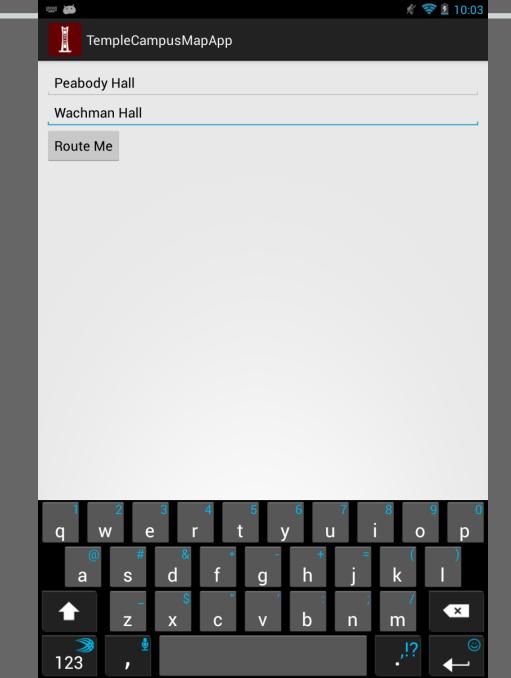


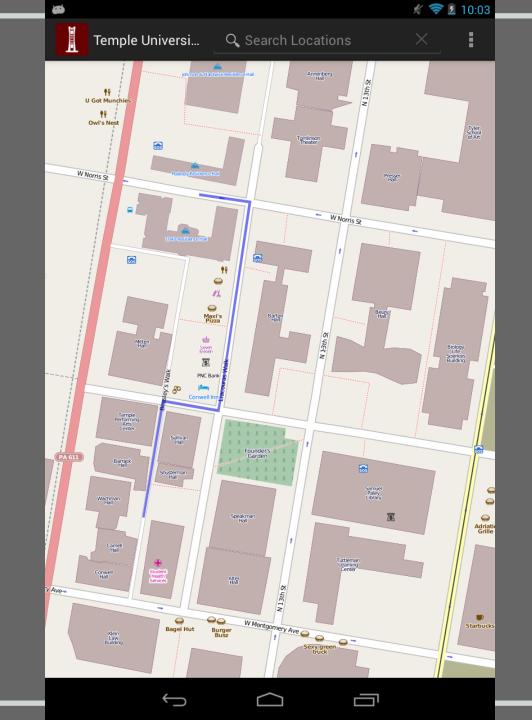


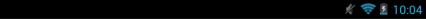














Display

Offline and cache

Location settings

Credentials

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