TEST REPORT

Report for TUmap Application
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December 10, 2012

Contents

1. System Overview

Project Abstract

TUmap is a highly customized campus specific Android application that aims to ease navigation around campus for new students and guests. It will be Android based and levy Google Maps API for routing and an open source mapping toolkit for our custom map. The interface will include a simple drop down menu of buildings on campus. Once a building is selected, a user's location will be automatically polled and a route will be traced to their destination. As the user moves, the phone will update the GPS location and the route if necessary.

2. Document Overview

The purpose of this document is to provide information about the testing of TUMaps project. This document contains the detailed description of all tests that are performed in the project with the results. The Test report documents application Unit, integration, acceptance, and System Testing. The results of each type test are added to the application development document for the module being tested. This document presents the following sections:

- Unit tests results
- Integration tests results
- Acceptance test results
- List of known problems

2.a Intended Audience

The document is intended to the following:

- Professors, alumni, and current students: To test various functionalities of the application
- Visitors and new students: To use the application and check whether it is working
- Team members: to evaluate whether the testing is done

2.b Scope

This document gives a description of detailed for the testing done in order to check if all the requirements are supported by the application. This also describes the test plan, items, and features to be tested along with the item pass/fail criteria.
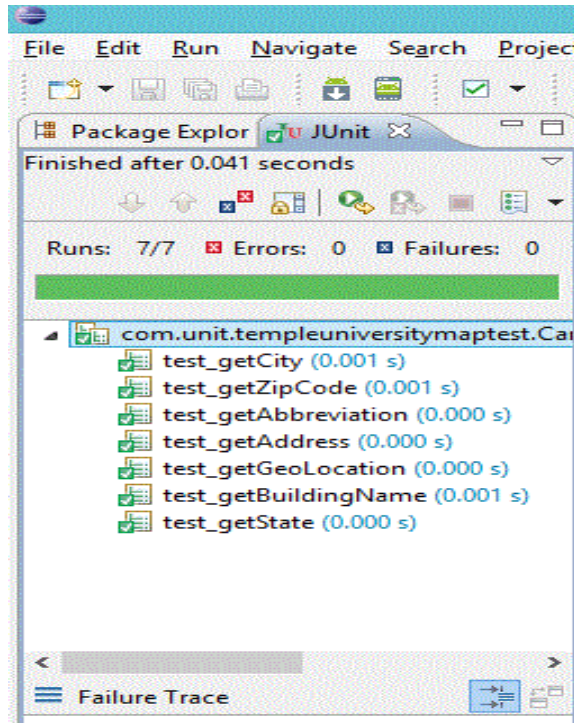
3. Unit Testing Results

3.a CampusLocationTest Class

Function Tested:

- test_getBuildingName()
- test_getAbbreviation()
- test_getAddress()
- test_getCity()
- test_getState()
- test_getZipCode()
- test_getGeoLocation

Results

4. Integration Testing Result

4.a CampusOverlay and MapActivity Classes

Function Tested:

- ✓ CampusOverlay
  - test_draw(Canvas c, MapView osmv, **boolean** shadow)
  - test_setMarker(**final** Bitmap marker)
  - test_GetMarker()
  - test_getGeopoint()
  - setGeopoint(GeoPoint point)
  - getTitle()
  - getDescription()

- ✓ MapActivity
  - test_FoodOverlay()
  - test_BuildingOverlay()
  - test_GetAllOverlay()
  - test_onCreate(Bundle savedInstanceState)

5. Acceptance Testing Results
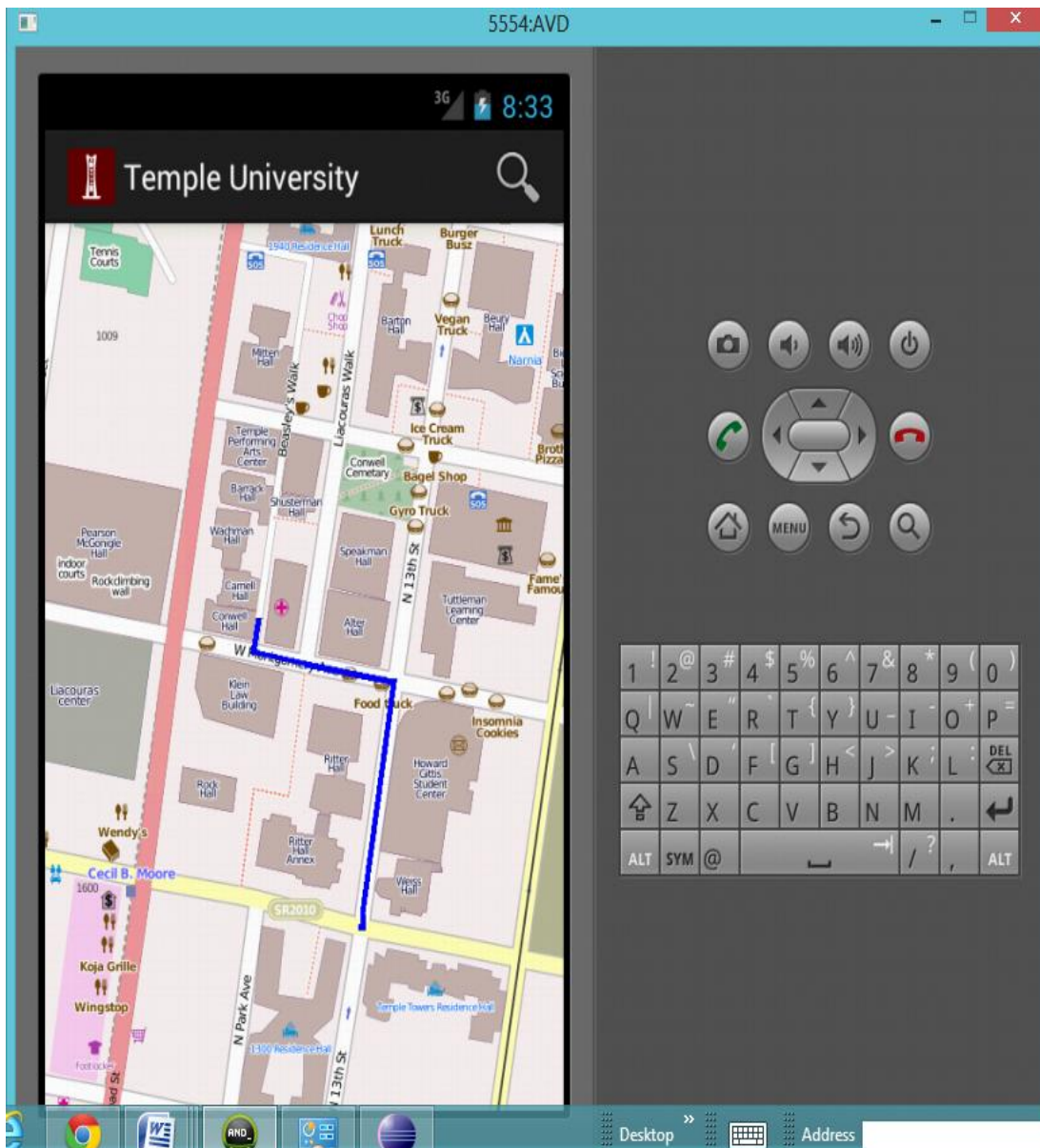
5.a showDirectionsTo()

Description: Verify that route is displayed from one static point (start) to another static point (End)
Precondition: user must know End location
Input: End geolocation coordinates (end Latitude, and end Longitude)
Output: Display route from current location to End location

Results

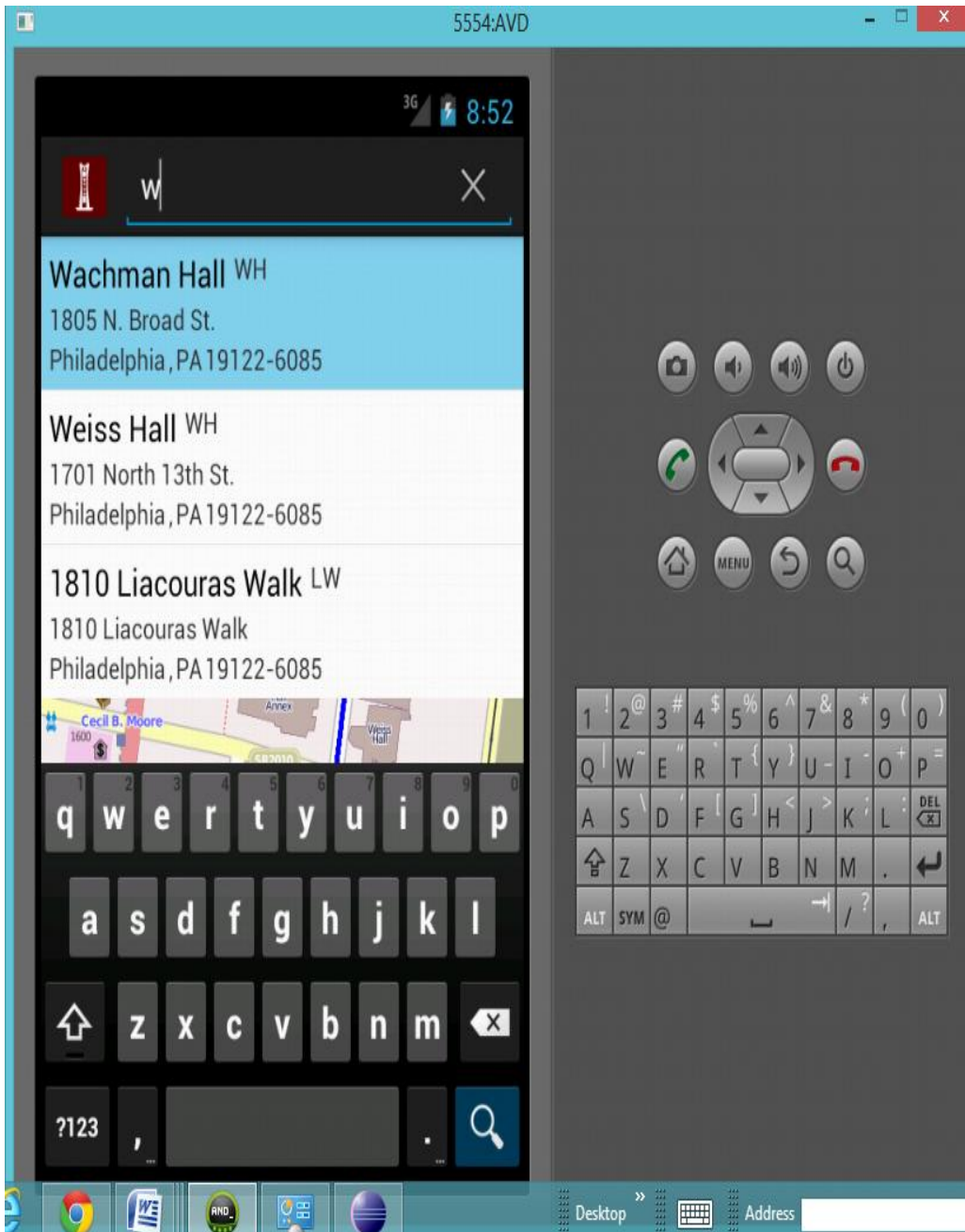**5.b onOptionsItemSelected()**

Description: Provide the option to select destination location from Menu
Precondition: know the name of building name
Input: Enter initial of building name
Output: Display option menu to select specific building starting with Initial
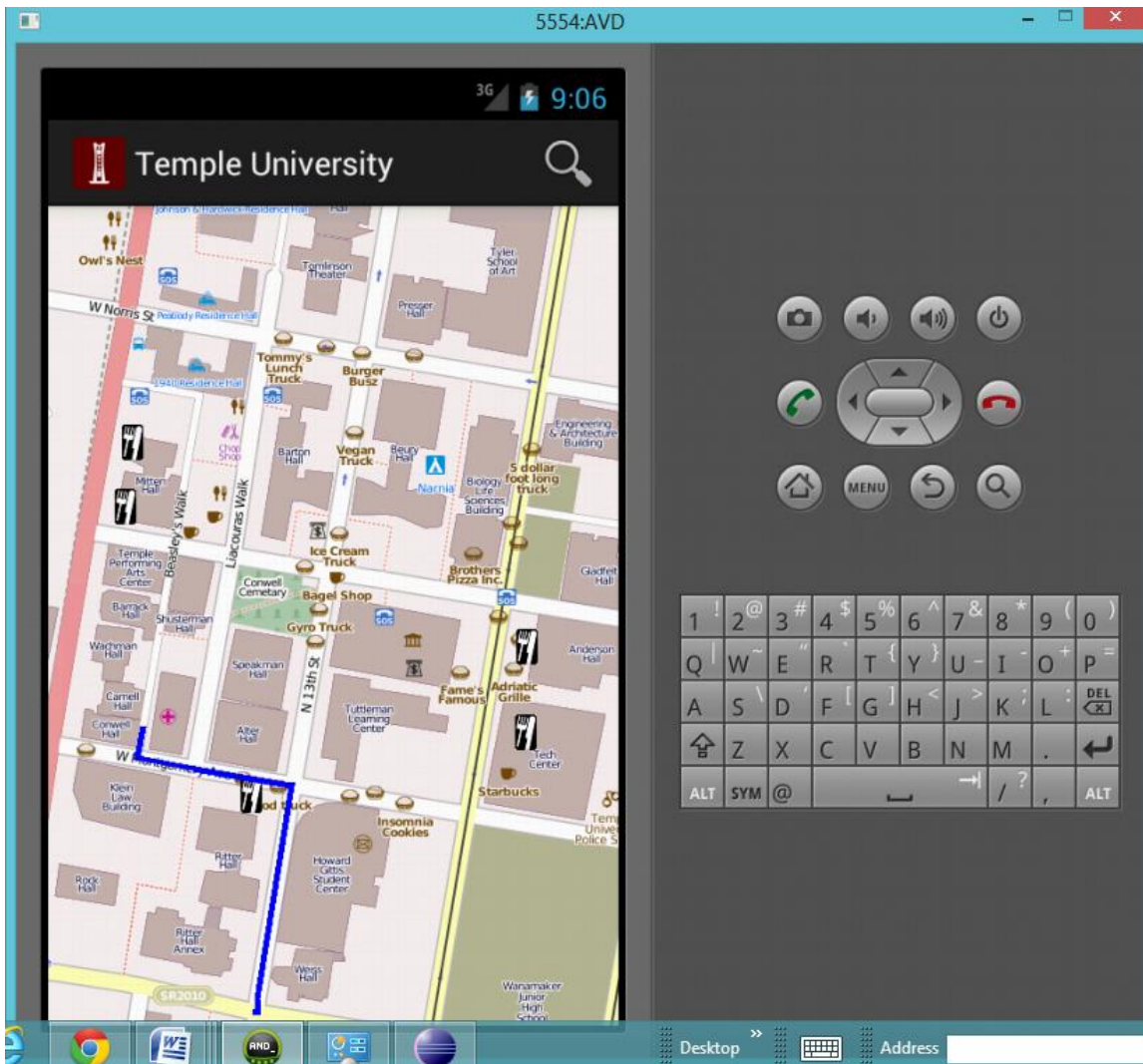
Results

5.c FoodOverlay()

Description: Display food overlay marker on the map
Precondition: Know existing restaurant and food store location on campus
Input: Enter the geolocation coordinates of restaurant
Output: Display marker on specific location

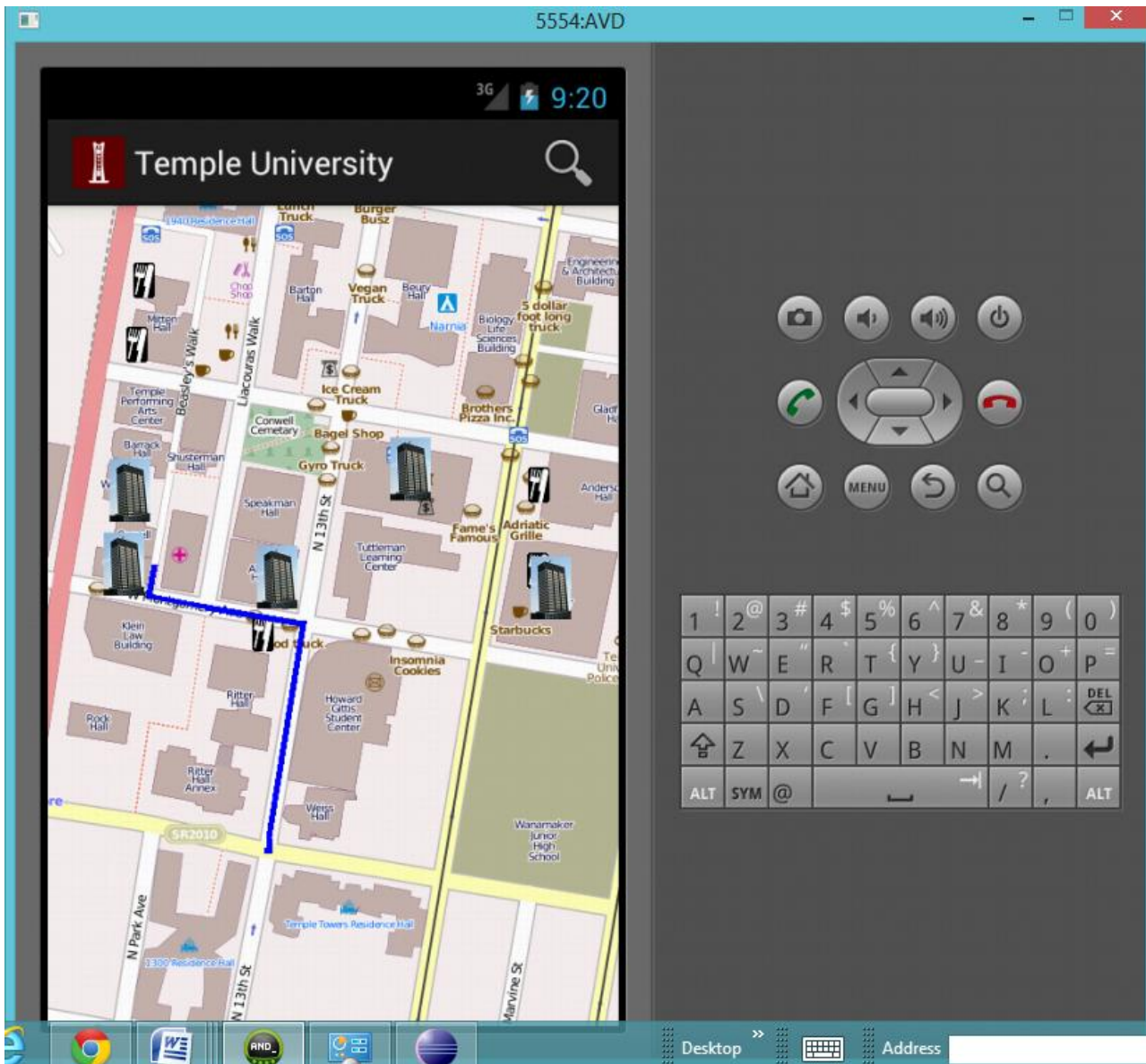**Results**

5.d BuildingOverlay()

Description: Display marker for each building
Precondition: Know different building name and location
Input: Enter the geolocation coordinates of building
Output: Display building marker on the map

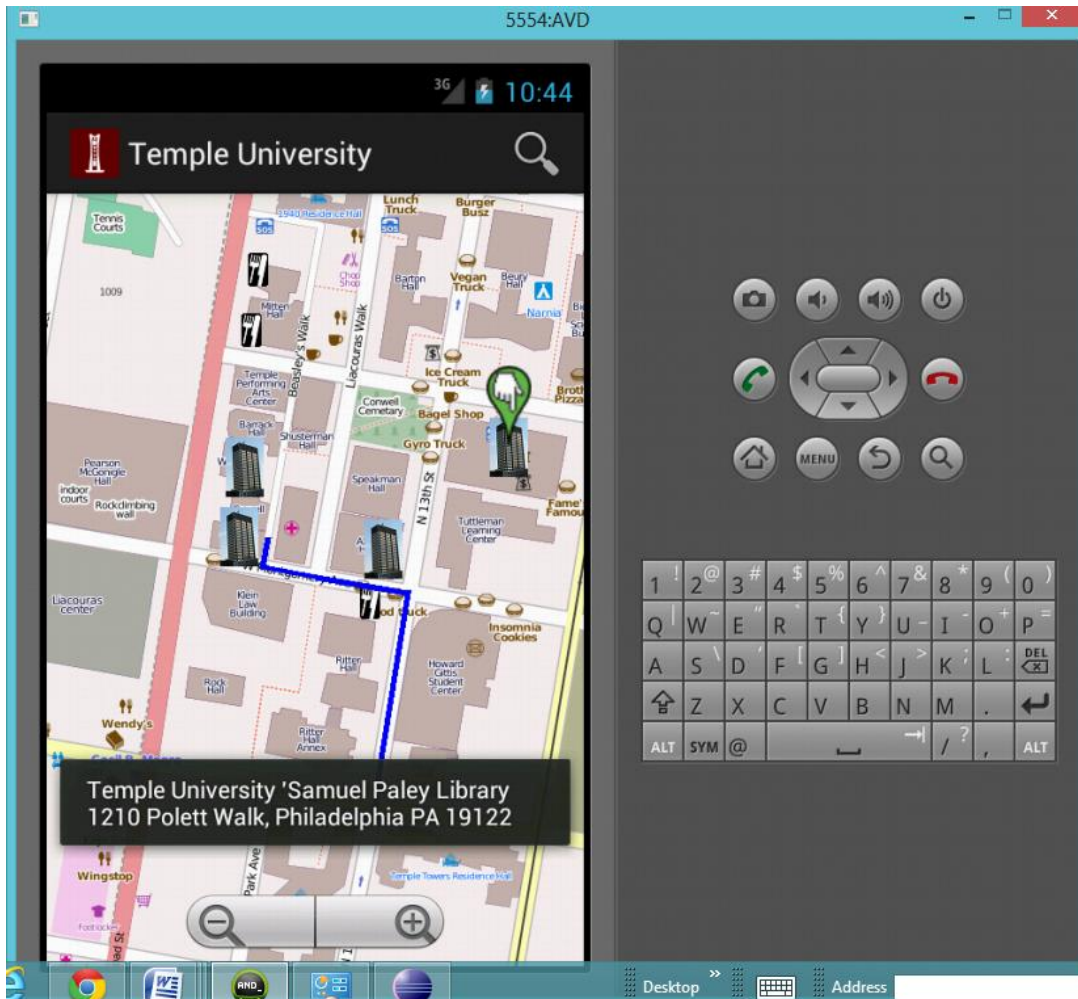*Results*

5.e onItemLongPress()

Description: Show information of overlay when click
Precondition: click on icon
Input: overlay item
Output: Display overlay title, description and name.

Results

6. Responsibilities

Name of Developers	Responsibility
Adama Coulibaly	Support Manager
Willy lulciuc	Development Manager
David Mason	Planning Manager
Sean Morgan	Team Leader
Ben Walker	Quality/Process Manager