

Brock Butler Class Design Document
CD–UI-MAPS Maps Activity Class Design
Date Modified: 03/04/2013
Version: 1.1

Revision History

Date	Version	Change	Author
02/28/13	1.0	Initial Draft	Mathew Menonkariyil
03/04/13	1.1	Added additional methods; cleaned up.	Vince Pascuzzi

Description

The Maps Activity is responsible for displaying the map, user location, and the path to the specified destination. User can update their position and search for locations. Should a location be found, user has option to get directions.

Class Variables

- **int POSITION_UPDATE**
 - Indicates a position update
- **int WIFI_DOWN**
 - Indicates wifi is down
- **int DESTINATION_ARRIVAL**
 - Indicates destination arrival
- **Position mPosition**
 - Indicates the current position
- **Position[] mPath**
 - Indicates the way points to destination

Methods

- **void onCreate(Bundle savedInstanceState)**
 - Sets up UI and runs various checks (wifi enabled, connectivity check).
- **void onBackPressed()**
 - Overrides default behaviour by returning to the Activity from which this was called.
- **boolean isWifiEnabled()**
 - Checks if device wifi is enabled. True if enabled; false otherwise.

- **boolean isConnected()**
 - Checks if device is connected to the wireless network. True if enabled; false otherwise.
- **boolean searchLocation(String loc)**
 - Takes a location provided by the user and calls mapping utility to determine if there exists the location.
- **Position getSearchLocation(String loc)**
 - Called when a location exists. Returns the location as a Position.
- **Position getCurrentPosition(String loc)**
 - Retrieves the user's current Position.
- **Position [] getDirections(Position src, Position dest)**
 - Returns array of type Position which contains the path from the user's current Position to destination.
- **void drawPath(Position [] path)**
 - Draws the path.
- **void drawPosition(Position pos)**
 - Draws a position on the map.

Class Design Sign-off

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