## 2.1 Server Part Unit Testing Record

**2.1.1 Class name for testing**: HelpPlaceServiceImpl

**Unit Test Case X (UTC-0X):** getNearestHelpPlace(double userLatitude,double userLongitude,Integer categoryId) :HelpPlace

**Test date:** 17/10/2014

**Tested by:** Sawatdiporn

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Case** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| **List of help place object** | **List of help place object** |
| **ID** | **ID** |
| 1 | Test find nearest help place by input category’s ID which is in database | 1 | 1 | Pass |
| 2 | Test find nearest help place by input category’s ID which is not in database | null | null | Pass |

**Unit Test Case X (UTC-0X):** getHelpPlacesInScope(double userLatitude, double userLongitude, double scope)**:**List<HelpPlace>

**Test date:** 17/10/2014

**Tested by:** Sawatdiporn

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| --- | --- | --- | --- | --- |
| **Case** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| **List of help place object** | **List of help place object** |
| **ID** | **ID** |
| 1 | Test get help places by input scope which have help place locate | 1 | 1 | Pass |
| 2 | Test get help places by input scope which have help place locate | 1,2 | 1,2 | Pass |
| 3 | Test get help places by input scope which does not have help place locate | Empty List | Empty List | Pass |

**Unit Test Case X (UTC-0X):** getLatitudeDistance(double latitude)**:**double

**Test date:** 17/10/2014

**Tested by:** Sawatdiporn

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| --- | --- | --- | --- | --- |
| **Case** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| **Latitude surface distance** | **Latitude surface distance** |
| 1 | Test get latitude surface distance by input latitude | 110649.0 | 110649.0 | Pass |
| 2 | Test get latitude surface distance by input latitude | 110649.0 | 110649.0 | Pass |

**Unit Test Case X (UTC-0X):** getLongitudeDistance(double longitude)**:**double

**Test date:** 17/10/2014

**Tested by:** Sawatdiporn

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Case** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| **Longitude surface distance** | **Longitude surface distance** |
| 1 | Test get longitude surface distance by input latitude | 107551.0 | 107551.0 | Pass |
| 2 | Test get longitude surface distance by input latitude | 107551.0 | 107551.0 | Pass |

**Unit Test Case X (UTC-0X):** findDistance(double la1, double long1, double la2, double long2)**:**double

**Test date:** 17/10/2014

**Tested by:** Sawatdiporn

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Case** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| **Distance (meter)** | **Distance (meter)** |
| 1 | Test get distance between two places by input latitude and longitude | 478.7309966661931 | 478.7309966661931 | Pass |
| 2 | Test get distance between two places by input latitude and longitude | 155044.92200234122 | 155044.92200234122 | Pass |