

# Tests

## GpsActivity

### 1. Map view

**Test description:** Test the map

**Preconditions:** Application installed on an Android device.

**Test steps:**

1. Launch the application.
2. Press the redirectToGpsActivity button.
3. Verify that a map is displayed with no gray tiles.

### 2. Map overlay

**Test description:** Test location update and that an arrow overlay is placed correctly.

**Preconditions:** Test 1 is working. User located in GpsActivity. The phone has registered your current position.

**Test steps:**

1. Verify that an orange arrow image is in the center of the map view.
2. Press a finger on the arrow.
3. Verify that a dialog with "Current Location" appears.
4. Move away from your current position(physically)
5. Verify that the previous arrow has disappeared and a new arrow can be found on your new location.

### 3. Radius overlay

**Test description:** Test the radius overlay surrounding a chat room

**Preconditions:** Test 1 is working. User located in GpsActivity. A room has just been created, using this phone.

**Test steps:**

1. Verify that a green circle is surrounding the arrow image
2. Move to a location that's outside the previously mentioned circle
3. Verify that the circle has changed color from green to red.

### 4. Scroll map

**Test description:** Test so the map is scrollable

**Preconditions:** Test 1 is working. User located in GpsActivity.

**Test steps:**

1. Swipe with your finger on the map.
2. Verify that the map is moving and that it has loaded new map information.

### 5. Zoom map

**Test description:** Test the zoom functions on the map

**Preconditions:** Test 1 is working. User located in GpsActivity.

**Test steps:**

1. Click anywhere on the map.
2. Verify that a zooming-tool appears on the screen.
3. Verify that zooming is possible by pressing the zoom-in(+) button and the zoom-out(-) button.
4. Pinch with two fingers on the map.
5. Verify that the map zooms in/out.

## 6. Compass

**Test description:** Test if the compass is working as intended.

**Preconditions:** Test 1 is working.

**Test steps:**

1. Verify that a compass is displayed in the upper left corner of the map.
2. Rotate the phone and verify that the compass needle is pointing the same way throughout the whole rotation process.

## SettingsActivity

### 7. Satellite view

**Test description:** Test if it's possible to change in what view the map is displayed.

**Preconditions:** Test 1 is working, user situated in GpsActivity.

**Test steps:**

1. Verify that the map is shown in a map view(can be seen on <https://maps.google.com/>).
2. Press the settings button.
3. Verify that Satellite view is set to false.
4. Press Satellite view.
5. Verify that Satellite view is set to true.
6. Click on the GpsActivity button.
7. Verify that the map is show in satellite view.