Testing

# Unit Tests(mocks)

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| Test ID | Test description | Pre-Conditions | Test Steps | Test Data | Expected Results |
| 1 | Check JSON Integrity | User in home page | 1. Open app 2.land in homepage | none | News from website should appear on the screen |
| 2 | Check current GPS location | GPS permission should be given , GPS should be on, GPS should be the location setting | 1. Registered User opens app 2. Presses ‘Scenarios’, and enters the Scenarios Activity  3. Should see the closest scenarios by proximity | 1.Location 2. Pressing the ‘scenarios’ activity | Scenarios should be sorted by proximity to the device |
| 3 | Check GPS delta (=distance from scenario in JSON) | GPS permission should be given , GPS should be on, GPS should be the location setting | 1. Registered user opens app  2. Presses ‘Scenarios’ and enters the Scenario Activity | 1.Location,  scenarios,  2. Pressing the ‘scenarios’ activity | Scenario location should be the correct distance away from the device |
| 4 | Check Scenario correctness | User is registered,  Location setting is ‘city’ | 1. User opens app  2. User selects scenarios and gets GPS from server  3. Check that the scenarios in his city match the ones in the server | 1. We should have a pre-written scenarios list 2. We pull said list from server  3. check json received from server against our own for inconsistencies | 0 inconsistencies |

# Integration Tests

1. Check if JSON from U(4) == U(1) (check encoding, big/little endian etc.)
2. Check if mocked local GPS location is near real GPS scenario in U(3)



1. Check if real local GPS location is near mocked GPS scenario in U(3)

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Test ID | Test description | Pre-Conditions | Test Steps | Test Data | Expected Results | Actual Results | Pass/Fail |
| 1 | Check JSON Integrity | User in home page | 1. Open app 2.land in homepage | none | News from website should appear on the screen |  |  |

# System Tests



1. Scenario #1:
   1. User opens app and is not a registered user.
   2. User registers for system.
   3. User tries to log in but cannot do so because they were  
      not approved by administrator.
   4. User does not see the logged in tabs from the main screen.
   5. User tries to register again with same e-mail/phone but cannot do so because the mail should be unique.
2. Scenario #2:
   1. User opens app and is not a registered user.
   2. User registers for system.
   3. Admin approves registration immediately,
   4. User receives list of scenarios and picks one near him.
   5. User files report for pictures.
3. Scenario #3:
   1. Pre-registered user opens app, and is greeted by main screen for logged in users.
   2. Changes GPS settings from ‘GPS’ mode to ‘city’ mode.
   3. Opens ‘Scenarios’ screen and only sees scenarios in their city.
   4. Picks one scenario and accepts it.
   5. Uploads video of scenario.