Location based services – Nearby Hospitals Test Doc

# How the JAR was tested by HCL

An android app (APK) was created in which JAR was used.

APK has the scenario of crash simulation as delivered earlier in Phase 1 delivery.

On crash detection – it takes current crash location of device (by GPS). **(GPS option on Android device must be ON)**

**Test scenarios**

**Testing done through Browser**

1. API call from Google was tested through the given URL on Chrome browser

<https://maps.googleapis.com/maps/api/place/nearbysearch/json?location=28.549319,77.329717&radius=2000&types=hospital&sensor=false&rankedBy=distance&key=AIzaSyDz79lX_i1jk_wus9KOCoNcMPAY1Y42vug>

1. Gave the radius parameter value in above URL as 2000 m, and then response was checked in the browser itself. Response comes in JSON format – which displays the list of hospitals alongwith place details of hospital.

**Invalid scenarios testing:**

1. Entered an invalid API key in the method call.

Error message was be returned – “your API is not valid”

**Testing done through APK on Android Device**

Installed the APK on Android device (7” size) Android kitkat version. GPS was turned on device and Internet connectivity was ensured on device.

Started the App – which generates crash detection simulation.

1. Mentioned the radius as 2000 meter in method in parameter

On crash detect – the button ‘Nearby Hospitals’ is clicked – which in-turn displays the list of hospitals (name) – that are in the radius of 2000 meter.

1. Mentioned the radius as 3000 meter in method in parameter

On crash detect – the button ‘Nearby Hospitals’ is clicked – which in-turn displays the list of hospitals (name) – that are in the radius of 3000 meter – this list is larger than the earlier list of hospitals.

Click on any hospital name – which then displays the details of that very hospital

1. Hospital Name
2. Hospital Address
3. Distance from current location
4. Likewise other radius values were given and test result was validated in similar line.

# How Ford can test

1. Install the **VehicleSimulationCrashApp.apk** on Android Tab using with a normal installation process.
2. **Device prerequisite** 
   1. **Screen Size of tab should be 7” or larger**
   2. **Android version should be 2.3 or above**
3. Make sure GPS is turned On and accessing your location from the **setting >>Location services**
4. Run the application by clicking the app icon ‘VehicleCrashSimulationApp’ icon.
5. App starts running and displays the vehicle data stream on screen.
6. Crash detect will come after approx. 15 seconds
7. Button ‘Nearby Hospitals’ will appear on top right.
8. Press the button ‘Nearby Hospitals’
9. Next screen will display the list nearby hospitals from the current location (where testing is being done)
10. By clicking on any specific hospital name – it will show below info about that hospital.
11. Hospital Name
12. Hospital Address
13. Distance from current location

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