**Use Case 6: Access Map of Local Area**

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| **Use Case Element** | **The user wants to access the map functionality on the application to display a map of the user’s local area.** |
| **Use Case Number** | **6** |
| **Application** | **The function relates to the GPS functionality of the application.** |
| **Use Case Name** | **Access Map of Local Area.** |
| **Use Case Description** | **A user wants to examine a map of the local area that they are currently located in while using the application.** |
| **Primary Actor** | **The user trying to use the application to display a map of the local area they are currently located in.** |
| **Precondition** | 1. **The business user must have access to the internet.** 2. **The area the user is operating in has access to satellite and cell tower transmissions.** |
| **Trigger** | **The user clicks on the map button in the application.** |
| **Basic Flow** | 1. **The user clicks the map button on in the application.** 2. **The satellites that record GPS information transmits their current location information to the cell towers in the local area.** 3. **The application reads the location transmissions emitted by the cell towers in the area, to understand the user’s current location and the area around them.** 4. **The application sends the users location information to the cloud server.** 5. **The cloud server sends an activity request to the organisation log.** 6. **The organisation log quires the records for organisations in the local area.** 7. **The organisation log returns a list of activities to the cloud server.** 8. **The cloud server sends a collection of activities in the local area to the application.** 9. **The application generates a map of the local area based on the location the user is currently located in, highlighting any activities that are near the user’s current location.** 10. **The application displays the map of the local area to the user.** |
| **Alternate Flows** | 1. **There are now satellites in range or available due to technical information. The application at the current moment in time can’t receive any location based information. Therefore, application cannot display a map of the current location.** 2. **The organisation log could not find any activates present in the local area. The organisation log sends a no activities found message to the cloud server. The cloud server sends a no activates in the area message in the area. The application generates a map of the local area to the user, but now activates are highlighted on the map as noon can be found.** |

**Use Case: Access Map of Local Area**

Show Map

Generate Map

Applications

User

Check Crime in Area

Organisation Log

Cloud Server

Send User Location

Send Activities Collection

Send GPS Location

Cell-Tower

Return Activities

Check Activity Request

Transmit Location

Satellite

Query Activities