**Lab session 5: Create Geolocation Flutter application with Google Maps and Open Street Maps.**

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| **Introduction** |
| In this lab session, you will demonstrate create Flutter application to integrate Geo-location features |

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| **Objectives** |
| At the end of this session, students are expected to be able to create a Flutter App to implement some Geo-location functionalities. |

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| **Deliverables** |
| * A full documentation with Screenshots and descriptions of the Labs and Dart files. |
| **Student Name** |
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**Tutorials**

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| 1. <https://techblog.geekyants.com/implementing-flutter-maps-with-osm> |
| 1. [**https://www.flutter4u.com/openstreetmap-osm-plugin-for-flutter/**](https://www.flutter4u.com/openstreetmap-osm-plugin-for-flutter/) |
| **3.** **https://github.com/edwinmacalopu/OpenStreetMap-flutter** |
| **4.** **https://flutterawesome.com/openstreetmap-plugin-for-flutter/** |
| **5.** **https://pub.dev/packages/flutter\_osm\_plugin** |

**Practical -**

**Task-1**

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| **Adding Google Maps to a Flutter App** |
| **https://codelabs.developers.google.com/codelabs/google-maps-in-flutter#0** |
| **Provide a documentation with a short description and screenshots for all the steps of the lab and the Dart files.** |

**Task-2**

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| **Create a Flutter APP using OpenStreet Map (OSM)** |
| **Create a Flutter App with OSM to display a few (5) hotels in 5 different districts in Mauritius using markers. Add some interesting features on the markers such as an info window.** |
| **Provide a documentation with a short description and screenshots for all the steps of the lab and the Dart files.** |

**Task-3**

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| **Create a Flutter APP to showcase a live location tracking** |
| **Reference: https://medium.com/flutter-community/flutter-google-map-with-live-location-tracking-uber-style-12da38771829** |
| **Provide a documentation with a short description and screenshots for all the steps of the lab and the Dart files.** |
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**OSM = Open Street Map**

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| **Student Notes and feedback** |
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| **Screenshots** |

