

## **Module D – Implementing the Map View with Google Maps API**

**Competition Time:** 4 hours

The competitor must create an interactive map view that displays nearby events using the Google Maps API.

The map should centre on the user's current location and show events as icons based on their coordinates.

When a user clicks an event icon, a pop-up should open displaying the event's title, description, organiser, and other key information.

Events are fetched from the REST API, which provides their latitude and longitude to ensure accurate placement on the map.

NOTE: Modules C and D must be submitted as a single solution.

Technical information about using the Google Maps API key can be found in the assets folder.

### **Requirements**

- The map must automatically load the user's location.
- Events must be fetched from the API and displayed as icons on the map.
- Clicking an event icon opens an information popup:
  - The pop-up must show the event name, address, and organisation name.
- The map view must be responsive and primarily designed for mobile.
- The complete solution must be finalised and submitted as part of Module D.

### **Final Submission Must Include:**

- A working mobile-optimised web application with an integrated map view
- An updated GitHub repository containing:
  - All source code files
  - Complete documentation

