**Important Notes**

1. **Startup Delay**
   * Since the app runs on **Render**, the service may “sleep” when idle.
   * If you see a delay (~20–30 seconds) when first opening the link, please wait — the app is starting up.
2. **Tabs in Application**
   * **🚮 Simulation Tab**
     + Shows HIT Campus Map with bins, vehicles, and water tap marker.
     + Buttons on sidebar for: Fill Bin, Assign Vehicle, Reset, Start/Stop Auto Simulation.
     + Vehicle movement is animated along shortest path.
   * **📊 Dashboard Tab**
     + Shows real-time Air Quality gauges (NH3, Smoke, Alcohol, Benzene, CO₂, NOx).
     + Shows real-time Water Quality gauges (TDS, EC).
     + Shows Waste Management panel with:
       - Bin fill percentages
       - Vehicle status (Idle/Busy)
       - Assignments history
       - Comparison statistics
3. **QR Code Complaint System**
   * QR Code shown in **Dashboard panel**.
   * Enter mobile number and complaint.
   * Complaint will appear live in “Alerts” section of Dashboard.

**Demo Flow for Jury**

1. Open the link → App loads.
2. Go to **Simulation tab** → See map with bins & vehicles.
3. Click **Fill Random Bin** → A bin turns red (FULL).
4. Click **Assign Vehicle** → Nearest vehicle moves to the bin.
5. Go to **Dashboard tab** → Observe real-time air/water gauges + waste management statistics update.
6. Try the **QR Code complaint system** → Submit a complaint and check it appears live.

**Contact**

If the app fails to load, please refresh the page after 20–30 seconds.  
For technical issues, contact:  
**Team VIDYUT, Haldia Institute of Technology**