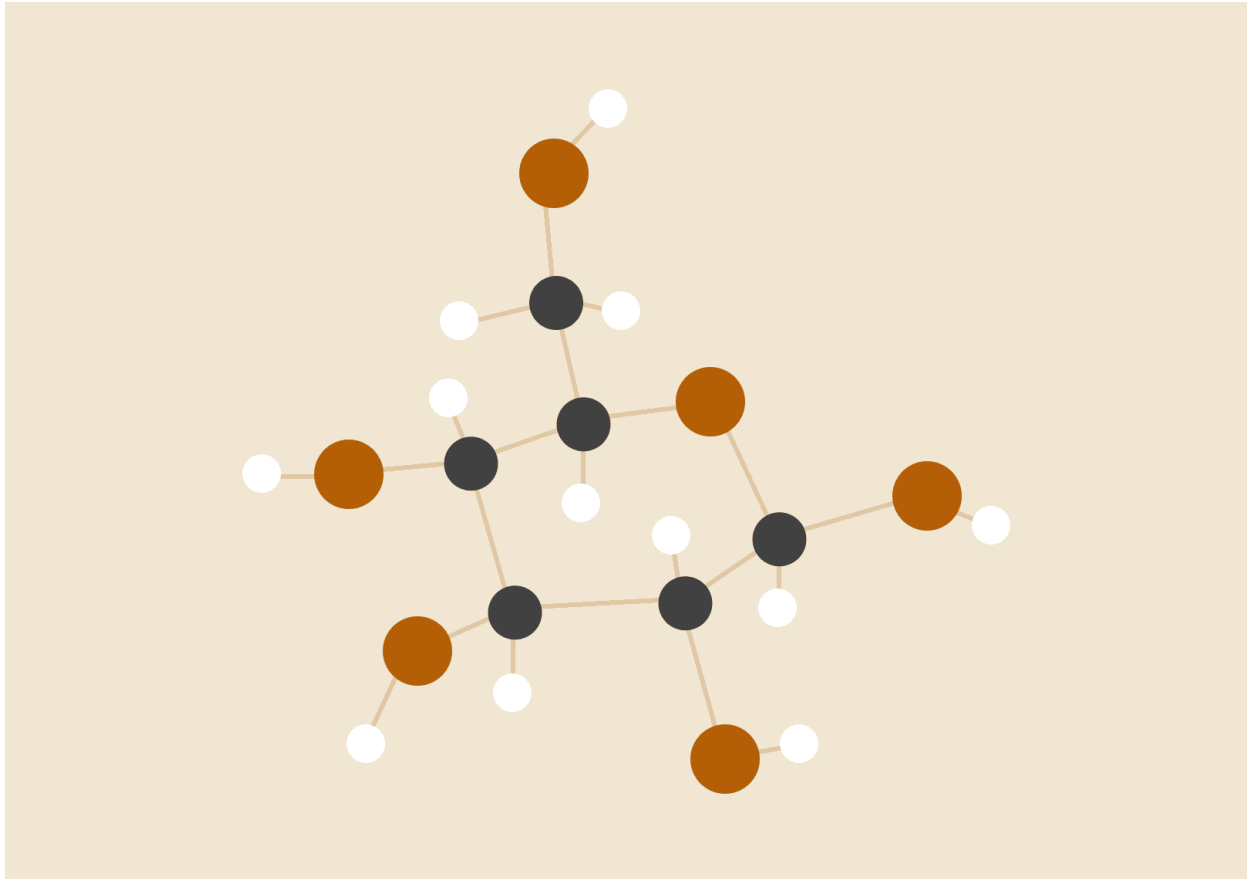


Science OpenHouse'25

'Behind the Tap'- Unmasking Hidden Data Access in Everyday Apps



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10TH Grade Science OpenHouse Synopsis

Project Title

Behind the Tap – Unmasking Hidden Data Access in Everyday Apps

~Theme: The Digital World: Innovations and Impacts

~Sub-Theme: Cybersecurity and Data Privacy

Objective

To build an interactive app/website that identifies what personal data is being collected by different applications and helps users understand how to protect their privacy online.

Problem Statement

Most users, especially teenagers, grant app permissions without reading the fine print. Many apps collect excessive data — like location, contacts, microphone access — even when it's not required for the app's core function. This unintentional data access can later result in **data breaches, digital profiling, and misuse of personal information.**

This is also in consideration with the recent data breaches like those of Archive.org and BigBasket exposed millions of users' personal data. This incident shows how easily our information can be misused online, making it crucial to develop tools that monitor and prevent such data leaks.

Solution and Scope

The project will:

- Track or simulate the data permissions given to apps
- Highlight potential risks (e.g., "XYZ app has access to your microphone 24/7")
- Suggest privacy actions to reduce risk
- Educate users through real-time alerts or dashboards

Tech/Tools Required

-**Frontend:** HTML, CSS, JavaScript (*basic only- in case we opt for a low-code model*)

-Backend Simulation (subject to change): Python or JSON file for mock app data

-Platform: Mobile app (via MIT App Inventor or Canva mockup) or website (via Glitch/Figma/Wixsite)

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