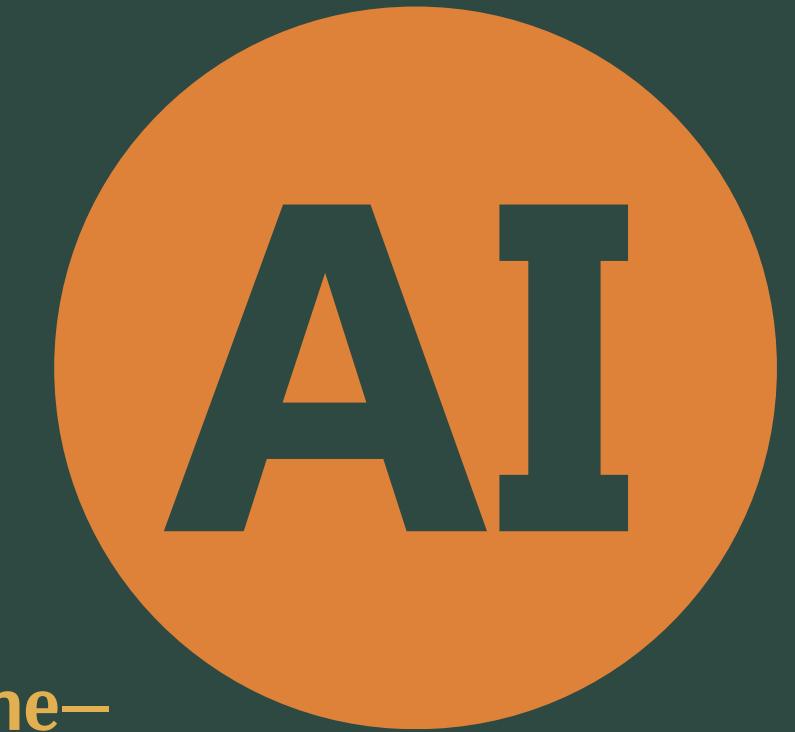


ACCESS AI

Bringing the world to the 4 billion still offline—
one community at a time.



GNEC HACKATHON 2025
SDG 10 (REDUCED INEQUALITIES)

Presented By

Len Johns Shaji & Lee Johns Shaji

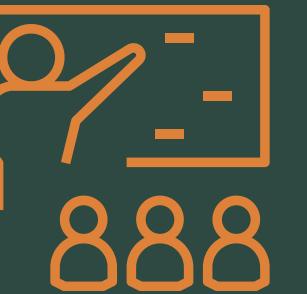


THE INEQUALITY PROBLEM

The Digital Divide Excludes 4 Billion People



Half the world lacks reliable internet access, this deepens education gaps, economic exclusion, and poverty cycles.



Education, AI, and digital tools remain out of reach for many.

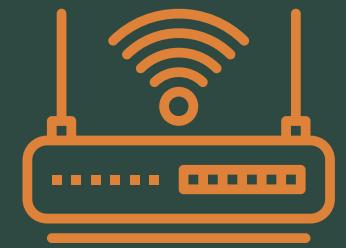
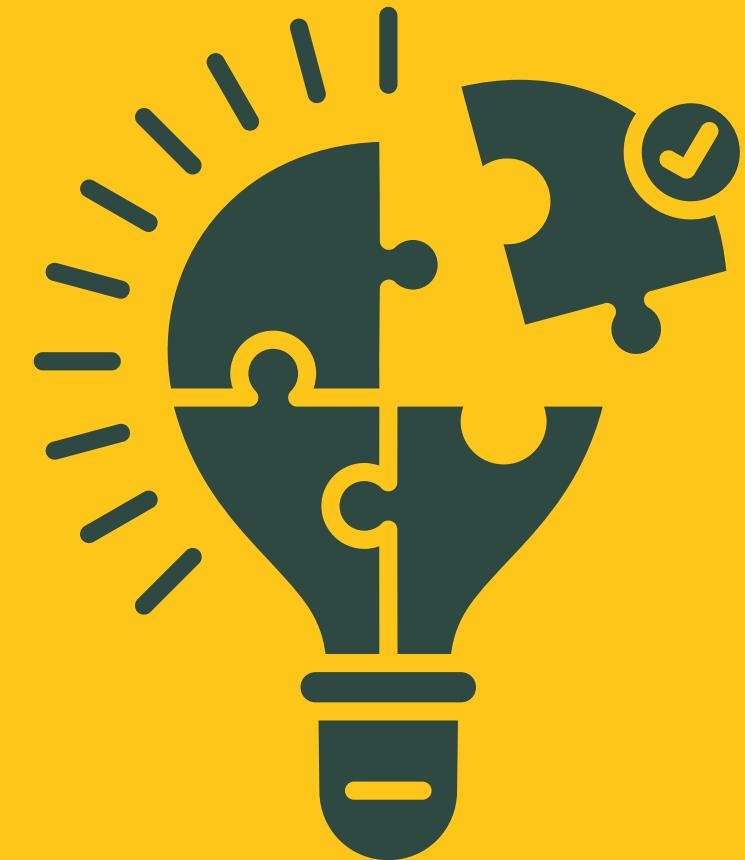


Remote, rural, and low-income communities face the biggest barriers.

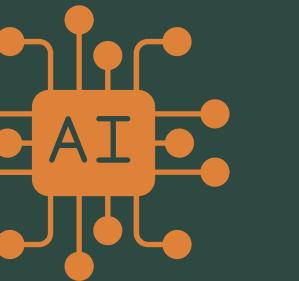


SOLUTION

Introducing ACCESS **AI**



A portable offline router
that turns any space into a
Wi-Fi AI Learning Hub.



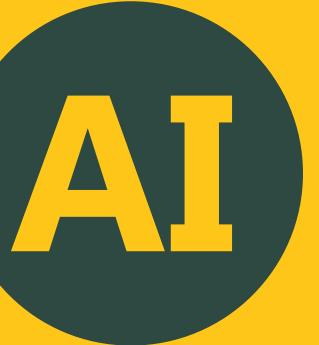
Lets users download and use
AI-powered learning apps—
no internet required.



Designed for rural schools,
libraries, and communities
without digital infrastructure.



HOW IT WORKS

ACCESS  AI



- The Windows, Android, and the host webpage will be stored in the USB

- The USB will be connected behind the router and used as the hub.



HOW IT WORKS

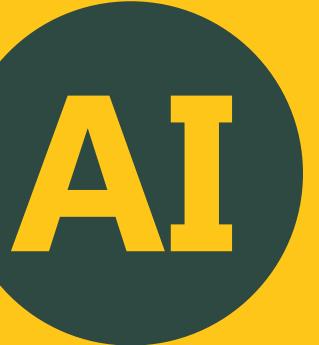
ACCESS **AI**

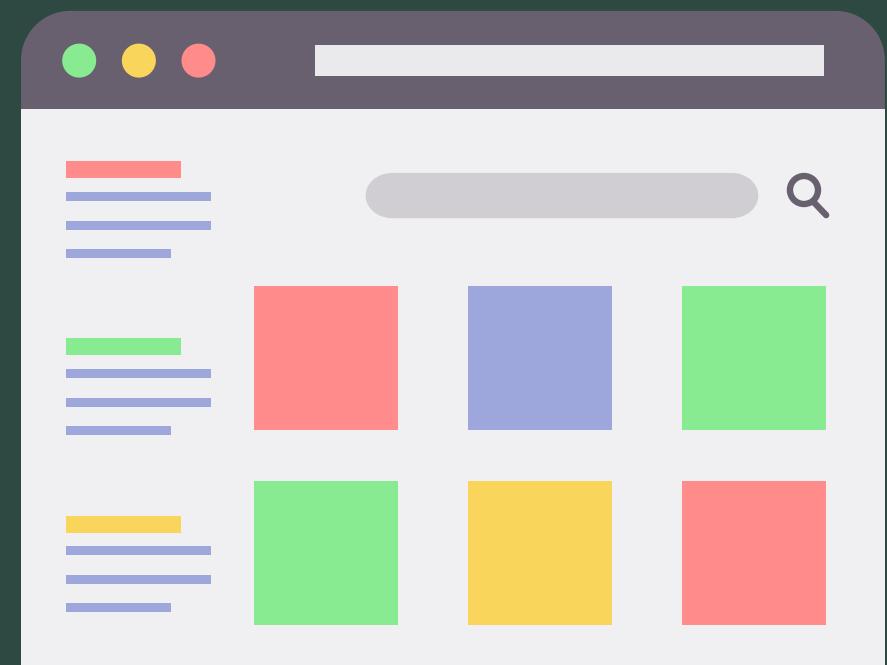


- Once turned on the access point will be automatically connected to the USB and will not require internet connection
- All users will be able to access the WI-FI network and will be redirected to ‘captive port’ page
- The user can choose the different download options from the webpage



HOW IT WORKS

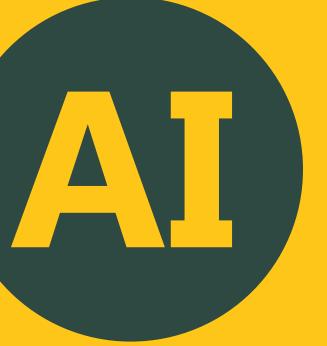
ACCESS  AI

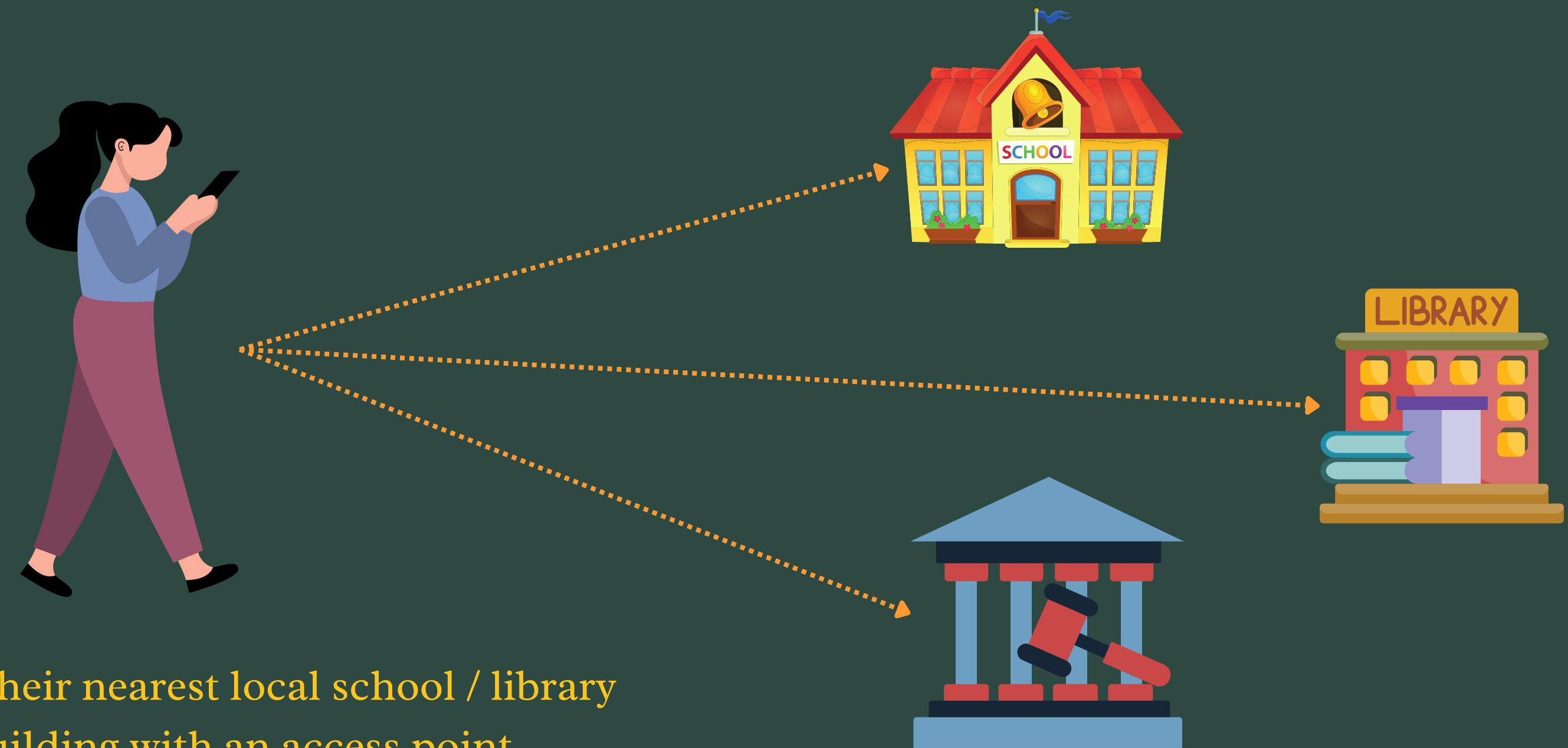


- Once downloaded the device disconnects from WI-FI.
- The user will be able to use the app offline and ask questions which the app will be able to answer.



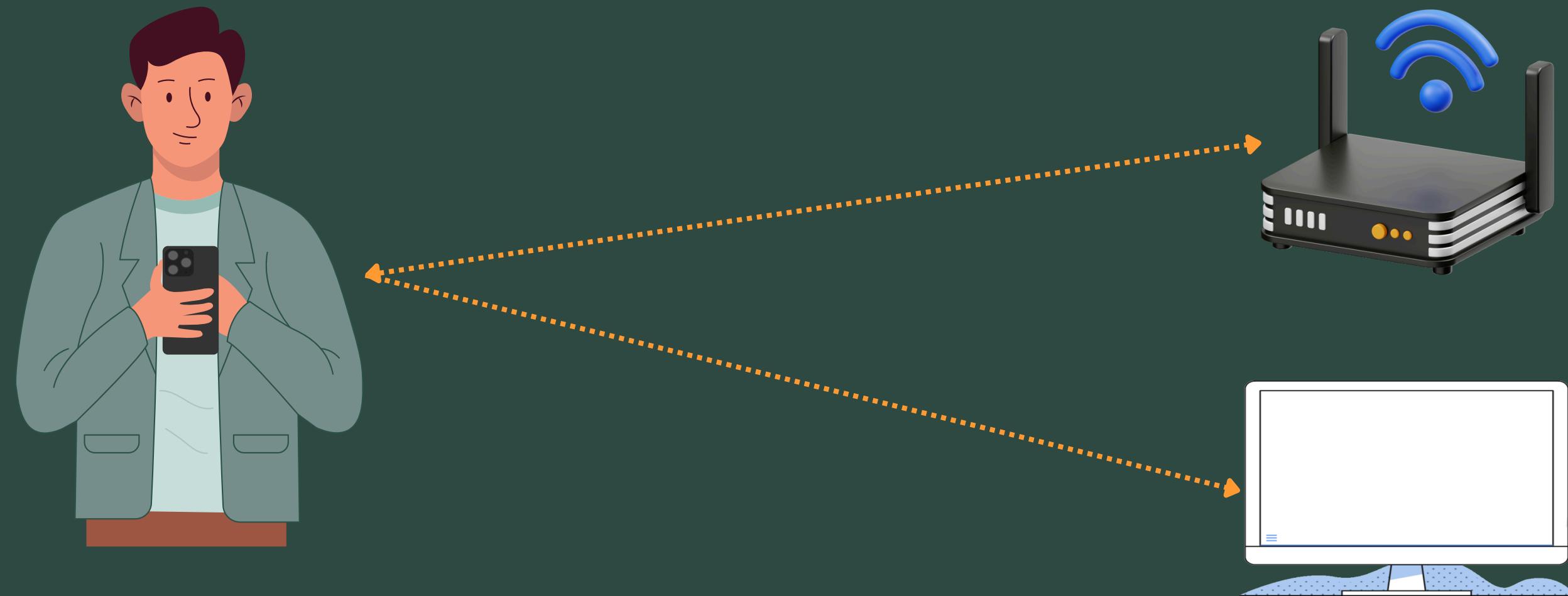
USER PERSPECTIVE

ACCESS  AI



USER PERSPECTIVE

ACCESS **AI**



User can access the ‘ACCESS AI’ WI-FI for free, to download the app in their language



USER PERSPECTIVE

ACCESS AI



User can ask any question to the AI offline chat-bot and it will answer any question (similar to having the internet)

CURRENTLY DEVELOPED

ACCESS **AI**



- Created a host page to redirect user once connected to WIFI network
 - Integrated different languages.
 - Provides clear instructions on how the app works
 - System requirements for installation
- Used open source trained model Microsoft Phi-4 for LLM
- Developed a fully functioning windows application.



DEMO



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PHI-4



*ALL DEMO WAS DONE OFFLINE

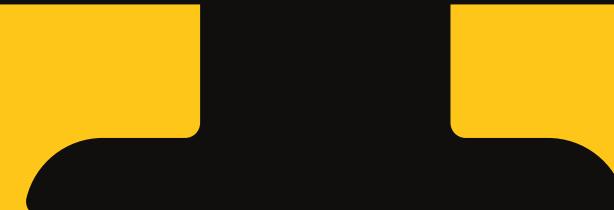
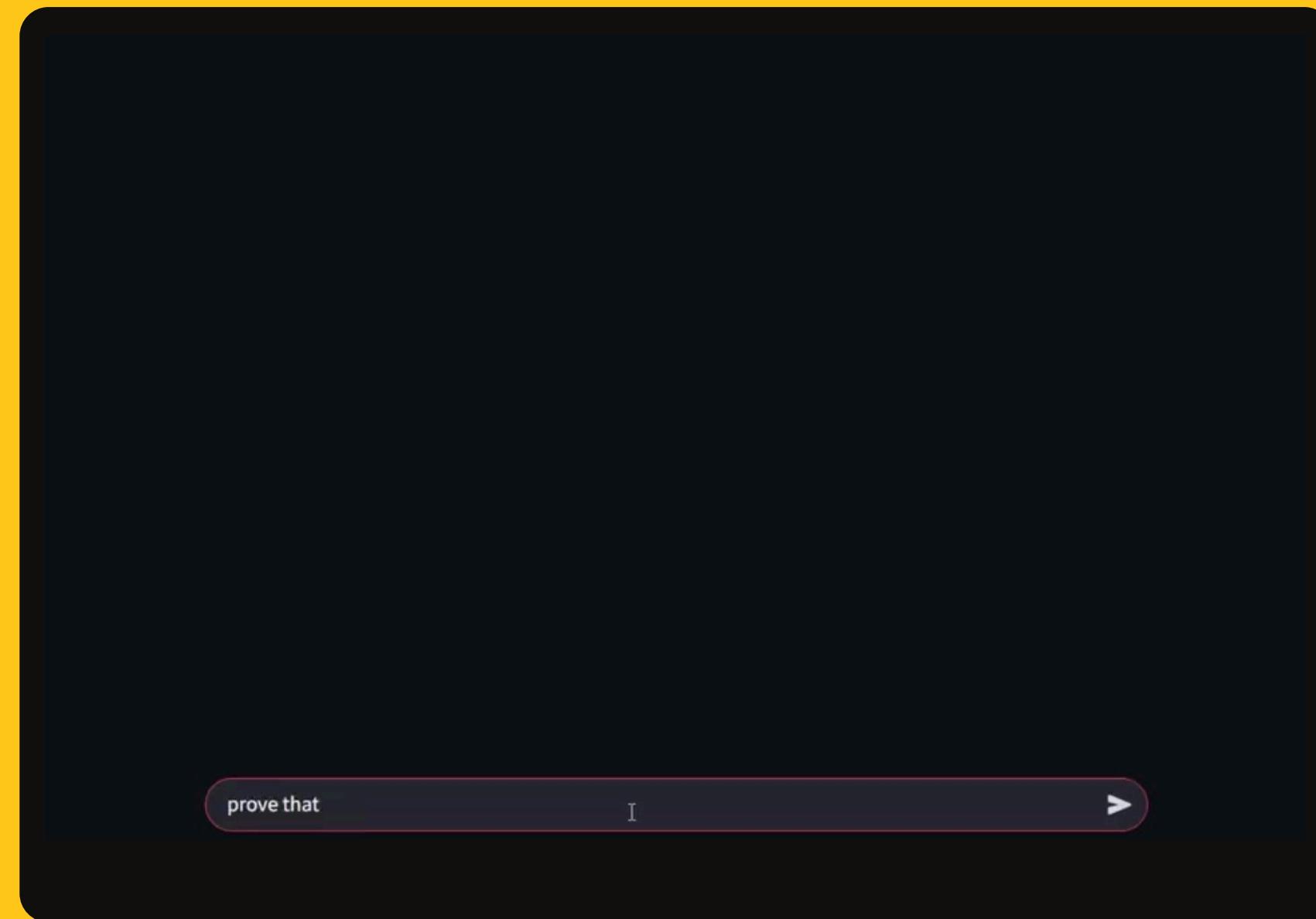


DEMO



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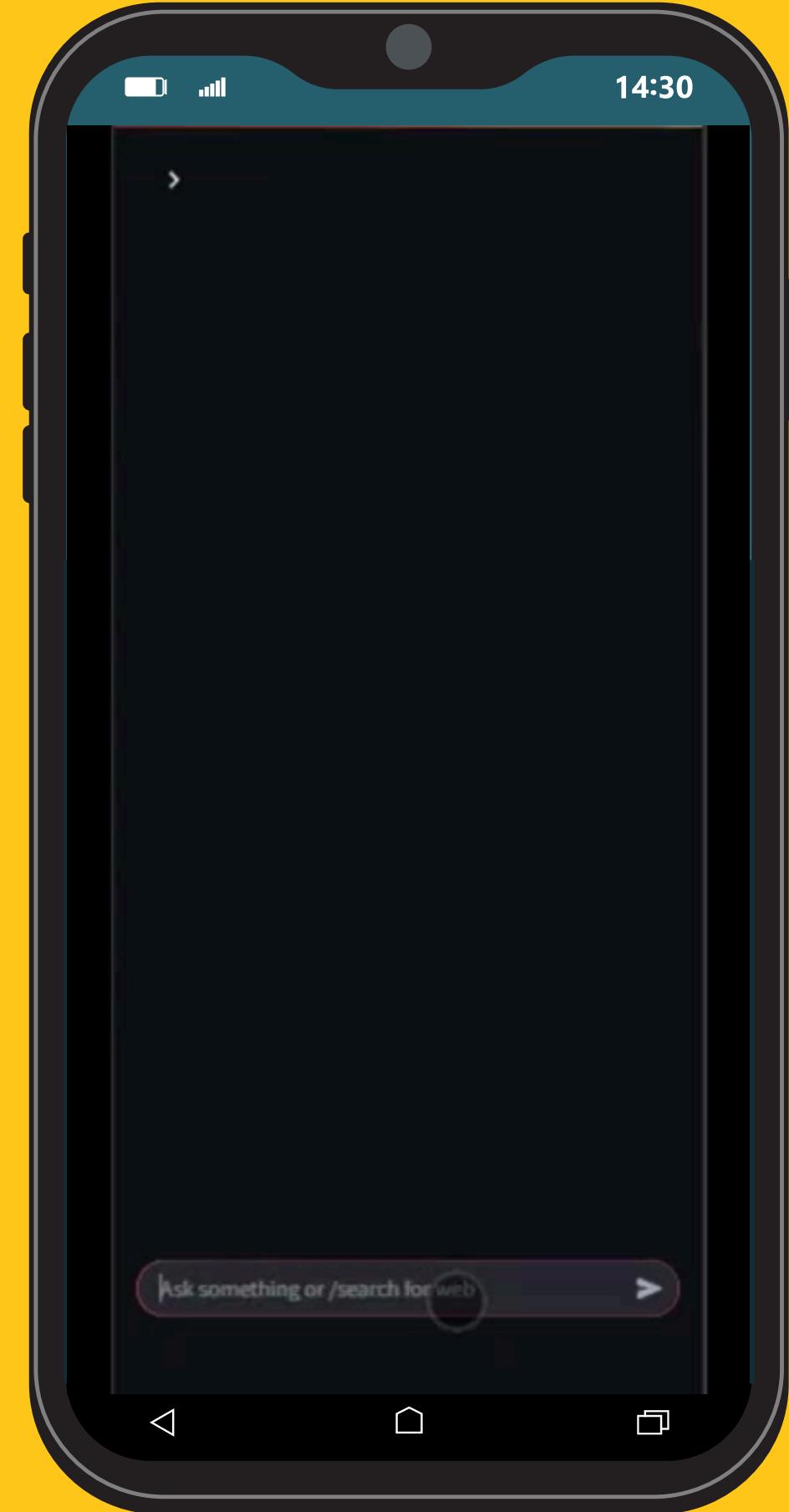
*ALL DEMO WAS DONE OFFLINE

DEMO



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*ALL DEMO WAS DONE OFFLINE

FUTURE DEVELOPMENTS



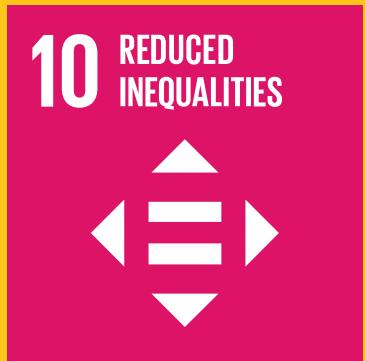
- Create a fully functioning Android app with fewer storage requirements
- Create a prototype router transmission
- Automatically updates every month with the latest information trained to the model.
- Collaborate with major publishing houses and libraries to provide their literature (especially academic).

Fully Functional Prototype:
September 2025



TEAM

ACCESS **AI**



Len Johns Shaji - University of Houston, United States

- Product Developer
- Website Designer
- Business Research
- AI Analyst



Lee Johns Shaji - Indian Institute of Technology, India

- App Developer
- AI Researcher
- Front-End Developer
- Back-End Developer

