Hackathon Challenge: The "Social Saver" Bot

Theme: Turning Your Instagram Saves into a Knowledge Base.

1. Executive Summary

We all do it: you're scrolling through **Instagram**, you see a Reel with a great workout routine, a design tip, or a coding hack. You hit "Save," but you never look at it again. It gets buried in a hidden folder, lost forever.

The Mission: Build a **WhatsApp Bot** that fixes this.

Your task is to build a bot that takes the Instagram links (and other social links) you send it, automatically understands them, and saves them to a personal website.

2. The Core Problem

Information on social media is fleeting.

- **Instagram:** Great for visual inspiration, but impossible to search.
- **WhatsApp:** Where we actually chat and share things, but it's not a storage tool.

The Challenge:

Create a system where a user can simply **forward an Instagram link to a WhatsApp Bot**, and the system automatically:

1. **Reads** the link.
2. **Extracts** the caption or vibe.
3. **Saves** it to a clean, searchable dashboard.

3. The Pipeline (Keep It Simple)

You don't need enterprise code. You just need to connect the dots.

A. The Inputs (Primary Focus: Instagram)

1. **Instagram Links (The Star):** The bot should accept a Reel or Post URL.
   - *Challenge:* Can you extract the caption? Can you get the hashtags?
2. **Twitter (X) Threads:** The bot should save the text from a Tweet.
3. **Blogs/Articles:** The bot should save the title and main text.

B. The Interface (WhatsApp)

- **The User Experience:** The user shouldn't have to download a new app. They should just text their "Bot Number" on WhatsApp.
- **The Interaction:**
  - *User:* Sends https://instagram.com/p/xyz...
  - *Bot:* "Got it! Saved to your 'Design' bucket."

C. The Intelligence (AI)

Once the link is received, your backend should use a simple AI (like OpenAI, Gemini, or HuggingFace) to:

- **Auto-Tag:** Is this "Fitness," "Coding," "Food," or "Travel"?
- **Summarize:** Write a 1-sentence summary of the caption.

D. The Output (The Dashboard)

Build a simple web page (Cards layout) that displays the saved content.

- **Visuals:** Show the Instagram link (embed it if you can!) and the AI summary.
- **Search:** Let the user type "Pasta" and find that recipe Reel they saved 2 weeks ago.

4. Technology Stack (Open Ended)

You have total freedom. Use the tools you know best.

- **Bot Interface: WhatsApp** (Twilio Sandbox, Meta API, or any Python library). *Telegram is allowed as a backup if WhatsApp is too hard*.
- **Backend:** Python (Flask/FastAPI), Node.js, or No-Code tools.
- **AI/LLM:** OpenAI API, Gemini, Claude, or open-source models.
- **Database:** Firebase, MongoDB, SQLite, or Google Sheets.

5. Evaluation Criteria

We are judging your **creativity** and **functionality**.

1. **The "WhatsApp -> Insta" Flow (40%)**
   - If I forward a Reel to your bot, does it actually end up on the website?
   - Does the bot reply to me?
2. **AI Smarts (30%)**
   - Did the AI correctly guess the category (e.g., tagging a workout video as "Fitness")?
3. **User Experience (20%)**
   - Is the dashboard clean?
   - Is it easy to find old links?
4. **The "Wow" Factor (10%)**
   - Did you figure out how to embed the video player?
   - Did you add a "Random Inspiration" button?

Deliverables:

1. A working demo (Screen recording of you sending a link on WhatsApp and it appearing on the web).
2. A link to your code repository.
3. A simple diagram showing how you connected WhatsApp to your Database.