

## Full Stack Developer Evaluation Task

# WhatsApp Web Clone

Your mission If you choose to accept, is to build a **WhatsApp Web – like chat interface** that displays real-time WhatsApp conversations using webhook data. The interface should mimic WhatsApp Web, show chats neatly, and support sending new messages (for storage only – no external sending).

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### You Will Need to:

- Set up a **MongoDB Cluster** (preferably MongoDB Atlas)
  - Create **server-side APIs** in **Node.js** or **Python** to process payloads and serve data
  - Build a **responsive, mobile-friendly frontend** that looks and behaves like WhatsApp Web
  - Host your application on a **public URL** (e.g., using Vercel, Render, Heroku, or your own server)
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### ✅ Task 1: Webhook Payload Processor

- Here is a zip file with sample payloads (JSON files) that simulate WhatsApp Business API webhooks:

Download It here: [https://drive.google.com/file/d/1pWZ9HaHLza8k080pP\\_GhvKI8j2voy-U/view?usp=sharing](https://drive.google.com/file/d/1pWZ9HaHLza8k080pP_GhvKI8j2voy-U/view?usp=sharing)

- Write a script to:
    - Read these payloads
    - Insert new messages into the MongoDB collection:  
**Database:** whatsapp  
**Collection:** processed\_messages
    - Use the **status payloads** (sent, delivered, read) to **update the status** of each corresponding message using the id or meta\_msg\_id field
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### ✅ Task 2: WhatsApp Web–Like Interface

- Create a **frontend UI similar to WhatsApp Web**
- Show all **conversations** grouped by user (wa\_id)
- Clicking a chat should show:
  - All message bubbles with date time
  - Status indicators (sent, delivered, read)
  - Basic user info (name and number)

- Design should be:
    - **Clean**
    - **Responsive**
    - **Easy to use on mobile and desktop**
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### ✅ Task 3: Send Message (Demo)

- Add a **“Send Message” input box** like WhatsApp Web
  - On submit, the message should:
    - Show up in the conversation UI
    - Be saved to the database (processed\_messages)
    - No message will actually be sent outside the platform
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### ✅ Task 4: Deployment

**Host the complete app on a public URL** You may use: Vercel, Render, Heroku, Or any other hosting provider

- **Do not submit code-only repositories or localhost URLs**
- Demo must be accessible publicly without setup

### 🌟 Bonus Task: Real-Time Interface Using WebSocket (Not Mandatory)

Simulate real-time message updates using **WebSocket** (e.g., Socket.IO). Your frontend should automatically reflect new messages and status updates as they are inserted or updated in the database, without requiring a manual refresh.

### 🧠 Evaluation Criteria

- Closeness of your app UI to WhatsApp web
- Responsiveness on mobile devices
- Thoughtful assumptions and attention to detail
- A well-structured backend
- Responsiveness and mobile friendliness

### Submission Instructions:

Submit ONLY using the [MakeList Form here](#). Submissions via email or internshala chat won't be evaluated.

### Requirements

- Submit only if you're:
  - Based in **India**

- **Not** a student, intern, or part-time applicant
- Final Submission Must Include:
  - **Public URL to the running app**
  - (Optional) GitHub repo or documentation

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## NOTES

- No real WhatsApp messages will be sent. This is a frontend + backend simulation for webhook data processing and display.
- Use of AI based code generation is acceptable as long as you are able to explain it