

WhatsApp Bot Assessment - Software Developer Intern

Project Overview

Build a **WhatsApp Auto-Reply Bot** with a web dashboard that automatically responds to incoming messages.

Required Libraries

Primary (Choose One):

- Evolution API self hosted version: <https://github.com/EvolutionAPI/evolution-api> (Preferred)
- WhatsApp Web.js: <https://github.com/pedroslopez/whatsapp-web.js>

Technical Requirements

Backend

- WhatsApp integration using one of the above libraries
- Auto-reply logic using LLM
- Message logging/storage
- Real-time updates

Frontend

- Dashboard to manage bot settings
- Message history display
- Response rule configuration
- Real-time chat interface

Core Features

1. **WhatsApp Connection:** QR code login, connection status
2. **Auto-Reply System:** using LLM like OpenAI etc
3. **Web Dashboard:** Manage rules, view messages, bot controls
4. **Message Storage:** Save and display conversation history



Deliverables

1. Deployed Application

- Live working URL

2. GitHub Repository

Structure:

```
|— backend/  
|— frontend/  
|— README.md (setup instructions, features, screenshots)
```

3. Video Demo

- Project walkthrough
- Live bot demonstration
- Code architecture explanation



Evaluation Criteria

- **Functionality (40%):** Core features work correctly
- **Code Quality (25%):** Clean, documented, error-handled code
- **UI/UX (15%):** Intuitive dashboard design
- **Deployment (10%):** Successfully deployed and accessible
- **Presentation (10%):** Clear video demonstration



Technical Tips

- Use environment variables for API keys
- Handle WhatsApp disconnections gracefully
- Implement rate limiting for message sending

Due Date: 5th of September, 2025 **Good luck!**

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