



**WEBYAPAR SOLUTIONS PVT. LTD.**

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## **Problem Statement:**

We are excited to invite you to participate in a skill assessment exercise designed to showcase your full stack development capabilities. Your task is to create a web application that interacts with the WhatsApp cloud API to send messages and media, and implements a webhook to receive messages.

## **Technical Requirements:**

- Backend:
  - Use Node.js with Express.js for the backend.
  - Integrate MongoDB to store necessary data (e.g., user information, message logs).
  - Implement endpoints to interact with the WhatsApp cloud API for sending messages and media.
  - Set up a webhook endpoint to receive incoming messages from the WhatsApp cloud API.
- Frontend:
  - Utilize HTML, CSS, and vanilla JavaScript for the frontend.
  - Implement a user-friendly interface to send messages and media.
  - Ensure responsive design for different screen sizes.
- Integration with WhatsApp Cloud API:
  - Create a free testing account on Meta Business to access the WhatsApp cloud API.
  - Use the API documentation to understand endpoints and authentication mechanisms.

- Implement functionality to send messages and media through the API.
- Configure webhook to receive incoming messages and process them accordingly.

### **Evaluation Criteria:**

- User Interface:
  - Intuitive design that makes it easy for users to send messages and media.
  - Responsive layout that adapts to different devices and screen sizes.
  - Attention to detail in UI/UX design.
- Code Quality:
  - Well-organized code structure with clear separation of concerns.
  - Consistent naming conventions and coding style.
  - Proper documentation/comments to explain complex logic or functionality.
- Best Practices:
  - Adherence to industry best practices and standards.
  - Security measures implemented to protect user data and prevent vulnerabilities.
  - Efficient use of resources and optimization techniques where applicable.
- System Design and Documentation (Optional):
  - Basic Schema Design for the application.
  - API documentation of your application.

### **Expected Outcome:**

Your submission should demonstrate a well-functioning web application that adheres to the specified requirements. Pay attention to animations, color schemes, and UI design, as these will be critical aspects of our review.

**Timeframe:** The task is designed to be completed within 6–8 hours.

### **Submission Guidelines:**

Demonstration Video:

- Create a video demonstrating the web application in action. Include both desktop and mobile views to display responsiveness.
- Record your entire screen using this [screen-recorder](#).
- Upload the video to your YouTube channel as an **unlisted** video and share the link.

#### Code Review:

- Upload your code to a repository on GitHub.
- Provide the repository link for us to review your code.

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We look forward to seeing your creativity and technical skills in action. This problem statement will help us understand your approach to problem-solving and application development.

**Webyapar Solutions Hiring Team!**

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