

NLAI – Autonomous Sales AI Agent (Node.js Starter Code)

/ai-agent/index.js

// NLAI – Autonomous Sales Brain (Starter Buildthon Version)

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```
import express from "express";
import fetch from "node-fetch";
import WebSocket from "ws";
import dotenv from "dotenv";
dotenv.config();
```

```
const app = express();
app.use(express.json());
```

```
/* -----
1. OPENAI REALTIME VOICE AGENT
-----*/
```

```
const OPENAI_API_KEY = process.env.OPENAI_API_KEY;
const REALTIME_URL = "wss://api.openai.com/v1/realtime?model=gpt-4o-mini-tts";
```

```
function createVoiceAgent(connectionId) {
  const ws = new WebSocket(REALTIME_URL, {
    headers: {
      "Authorization": `Bearer ${OPENAI_API_KEY}`,
      "OpenAI-Conversation-ID": connectionId
    }
  });
};
```

```
ws.on("open", () => {
  console.log("🔊 Voice Agent Connected");
```

```
  // Initial greeting
  ws.send(JSON.stringify({
    type: "response.create",
    response: {
      conversation: [
        {
          role: "assistant",
          content: [{ type: "output_text", text: "Hello! I'm the NLAI AI assistant. How can I help you today?" }]
        }
      ]
    }
  }));
}
```

```

    }
  });
});

ws.on("message", async (data) => {
  const event = JSON.parse(data);

  if (event.type === "response.output_text.delta") {
    console.log("AI:", event.delta);
  }

  if (event.type === "user_speech_result.final") {
    console.log("User said:", event.transcript);

    handleIntent(event.transcript, ws);
  }
});

return ws;
}

/* -----
2. SIMPLE INTENT HANDLER LOGIC
-----*/

async function handleIntent(text, ws) {
  let reply;

  if (text.includes("price") || text.includes("cost")) {
    reply = "Our pricing starts at just ₹799 per month for businesses. Would you like me
to send details on WhatsApp?";
  }

  else if (text.includes("demo")) {
    reply = "Sure, I can book a live demo for you. Please share your preferred time.";
  }

  else if (text.includes("location")) {
    reply = "We are based in Delhi, but we serve clients all across India.";
  }

  else {
    reply = "I can help with pricing, demos, follow-ups, and business automation. What
would you like to know?";
  }
}

```

```

    }

    ws.send(JSON.stringify({
      type: "response.create",
      response: {
        conversation: [
          { role: "assistant", content: [{ type: "output_text", text: reply }] }
        ]
      }
    }));

    // Log to Google Sheets
    logToSheet(text, reply);

    // Send WhatsApp auto follow-up
    sendWhatsAppFollowUp("91XXXXXXXXXX", reply);
  }

  /* -----
  3. GOOGLE SHEETS CRM LOGGING
  -----*/

  import { google } from "googleapis";

  async function logToSheet(userText, botReply) {
    try {
      const auth = new google.auth.GoogleAuth({
        credentials: JSON.parse(process.env.GOOGLE_SERVICE_ACCOUNT),
        scopes: ["https://www.googleapis.com/auth/spreadsheets"],
      });

      const sheets = google.sheets({ version: "v4", auth });

      await sheets.spreadsheets.values.append({
        spreadsheetId: process.env.SHEET_ID,
        range: "Sheet1!A:C",
        valueInputOption: "RAW",
        requestBody: {
          values: [[new Date().toISOString(), userText, botReply]]
        }
      });

      console.log("📄 Logged to Google Sheets");
    }
  }

```

```

    } catch (err) {
      console.error("Sheet Error:", err);
    }
  }
}

```

```

/* -----
4. WHATSAPP AUTO FOLLOW-UP
-----*/

```

```

async function sendWhatsAppFollowUp(phoneNumber, message) {
  try {
    await
    fetch(`https://graph.facebook.com/v17.0/${process.env.WHATSAPP_PHONE_ID}/message
s`, {
      method: "POST",
      headers: {
        "Authorization": `Bearer ${process.env.WHATSAPP_TOKEN}`,
        "Content-Type": "application/json"
      },
      body: JSON.stringify({
        messaging_product: "whatsapp",
        to: phoneNumber,
        text: { body: message }
      })
    });

    console.log("🗨️ WhatsApp follow-up sent!");
  } catch (err) {
    console.error("WhatsApp Error:", err);
  }
}

```

```

/* -----
5. API ENDPOINT: START AI CALL
-----*/

```

```

app.get("/start-call", (req, res) => {
  const connectionId = Date.now().toString();
  createVoiceAgent(connectionId);

  res.json({
    status: "AI agent started",
    connectionId
  });
});

```

```
});  
});
```

```
/* -----  
  6. SERVER  
-----*/
```

```
const PORT = process.env.PORT || 5000;  
app.listen(PORT, () => console.log(`🚀 NLAI AI Agent running on port ${PORT}`));
```