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🧠 1. Watson Assistant Setup

Step 1: Create Assistant

Go to IBM Cloud → Catalog → AI → Watson Assistant

Create an instance

Create an assistant and a dialog skill with intents and entities

Sample Intents:

#symptom\_check

#appointment\_booking

#medication\_reminder

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🌐 2. Backend (Node.js + Express + Watson SDK)

server.js (Backend API):

const express = require("express");

const bodyParser = require("body-parser");

const AssistantV2 = require("ibm-watson/assistant/v2");

const { IamAuthenticator } = require("ibm-watson/auth");

const app = express();

app.use(bodyParser.json());

const assistant = new AssistantV2({

version: "2021-11-27",

authenticator: new IamAuthenticator({

apikey: "YOUR\_WATSON\_API\_KEY",

}),

serviceUrl: "YOUR\_ASSISTANT\_URL",

});

let sessionId = null;

// Create session

assistant.createSession({ assistantId: "YOUR\_ASSISTANT\_ID" })

.then(res => {

sessionId = res.result.session\_id;

}).catch(err => console.error(err));

// Chat endpoint

app.post("/chat", (req, res) => {

const message = req.body.message;

assistant.message({

assistantId: "YOUR\_ASSISTANT\_ID",

sessionId: sessionId,

input: {

message\_type: "text",

text: message,

},

})

.then(response => res.send(response.result.output.generic[0].text))

.catch(err => res.status(500).send(err));

});

app.listen(3000, () => console.log("Server running on port 3000"));

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🩺 3. Frontend (HTML + JS)

index.html:

<!DOCTYPE html>

<html>

<head>

<title>Health Assistant</title>

</head>

<body>

<h2>Intelligent Health Assistant</h2>

<input type="text" id="userInput" placeholder="Describe your symptoms">

<button onclick="sendMessage()">Send</button>

<div id="chatBox"></div>

<script>

function sendMessage() {

const msg = document.getElementById("userInput").value;

fetch("/chat", {

method: "POST",

headers: { "Content-Type": "application/json" },

body: JSON.stringify({ message: msg })

})

.then(res => res.text())

.then(data => {

document.getElementById("chatBox").innerHTML += "<p><strong>Bot:</strong> " + data + "</p>";

});

}

</script>

</body>

</html>

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🕒 4. Medication Reminder (IBM Cloud Functions + Scheduler)

Create a Cloud Function in IBM Cloud:

function main(params) {

const medication = params.med || "your medicine";

return {

statusCode: 200,

body: Reminder: It's time to take your ${medication}.

};

}

Trigger this using IBM Cloud Scheduler at fixed times.

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📅 5. Appointment Booking Example (Cloudant)

Create a simple appointment DB in IBM Cloudant:

Appointment Save Endpoint:

app.post("/book", (req, res) => {

const { name, time } = req.body;

db.insert({ name, time }, (err, body) => {

if (!err) res.send("Appointment booked!");

else res.status(500).send(err);

});

});