



Join Venture AI

A Betopia Company

AI Developer Assessment Test

Greetings Candidate,

Thank you for taking the time to attend the interview for the **AI Developer** position. We appreciate your interest in joining our team. We're pleased to inform you that you've been shortlisted for the next phase of the selection process, which is an **assessment test** designed to evaluate your skills in AI model development, machine learning algorithms, and problem-solving.

Please find below the instructions for completing your assessment as part of the **AI Developer** selection process:

Your Task: Build a simple AI-powered chatbot that can answer questions about a financial policy document

1. Extract Data

- Read the financial policy document (**provided with the email**).
- Pull out important information (like budget, debt, or infrastructure details)
- Make sure you keep track of where you found the info (page number or section is enough).

2. Set Up Database for Search

- Store the main points or sections in a database (like faiss, chormadb, pinecone) for quick searching.
- When the user asks a question, use vector search to find the closest matching section or answer.

3. Build the Chatbot

Your chatbot should:

- Understand simple user questions about the document.
- Use **conversation memory** so it remembers what the user just asked (so if someone asks “What about debt?” right after another question, the bot knows the topic).
- Give answers using the information found through the knowledge base search.
- Respond clearly and helpfully.

What to Submit

- Your code (with comments, so we can follow your thinking)
- A quick “How to run” guide (just a README with instructions)
- **Please upload all source code to a public GitHub repository and include the repository link in your submission email to:**
hasanmahmudnayeem3027@gmail.com

Tips & Encouragement

- Focus on getting a basic version working. Clean and simple beats complicated and buggy!
- If you're not sure how to do something, explain your idea in a comment.
- If you want, include a little write-up about how you made the chatbot “remember” things, and why you set up the search the way you did.
- **You DO NOT need to deploy anything.** Running your code locally or in a notebook is perfect!

Submission Deadline

- All reports must be submitted before 23/08/2025 (11:59 pm)
- Late submissions may not be considered for the next stage.
- Thank you, and we look forward to reviewing your insights and observations.

Warm regards,

Hasan Mahmood

Lead AI Developer

Join Venture AI (JVAI)