

# Backend

## Llm.js

```
const axios = require('axios');

const { GoogleGenerativeAI } = require("@google/generative-ai");
const apiKey = 'AlzaSyB-gYeps1h7YUPOSCNIDtB0Z4zBGDLzhoA';

const genAI = new GoogleGenerativeAI(apiKey);

const model = genAI.getGenerativeModel({ model: "gemini-1.5-flash"});

exports.generateNextQuestion = async (previousQuestion,userResponse) => {

    const prompt = `Question: ${previousQuestion} User's response: ${userResponse}. Generate the next question.`;

    console.log(prompt,apiKey)

    try {

        const result = await model.generateContent(prompt);

        const response = await result.response;

        const text = response.text();

        console.log(text)

        return text;

    } catch (error) {

        console.error('Error generating question:', error);

        throw error;

    }

};
```

## **surveyController.js**

```
const Survey = require('../models/Survey');

const axios = require('axios');

const { generateNextQuestion } = require('../config/llm');

exports.startSurvey = async (req, res) => {
  // console.log("Working")

  const previousQuestion = "How often do you exercise?";

  return res.json({ question: previousQuestion });
};

exports.getNextQuestion = async (req, res) => {
  const userResponse = req.body.response;
  const previousQuestion=req.body.pre;
  try {
    const nextQuestion = await generateNextQuestion(previousQuestion,userResponse);
    // console.log("nextQuestion",nextQuestion)
    res.json({ question: nextQuestion });
  } catch (error) {
    res.status(500).json({ error: "Error generating the next question" });
  }
};
```

## **Survey.js**

```
const mongoose = require('mongoose');

const surveySchema = new mongoose.Schema({
  question: { type: String, required: true },
  response: { type: String },
});
```

```
module.exports = mongoose.model('Survey', surveySchema);
```

### **surveyroutes.js**

```
const express = require('express');
```

```
const { startSurvey, getNextQuestion } = require('../controllers/surveyController');
```

```
const router = express.Router();
```

```
router.get('/start', startSurvey);
```

```
router.post('/nextQuestion', getNextQuestion);
```

```
module.exports = router;
```

### **index.js**

```
const express = require('express');
```

```
const mongoose = require('mongoose');
```

```
const surveyRoutes = require('./routes/survey');
```

```
const dotenv = require('dotenv');
```

```
dotenv.config();
```

```
const cors = require("cors")
```

```
const app = express();
```

```
app.use(cors())
```

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

```
app.use('/api/survey', surveyRoutes);
```

```
const PORT = process.env.PORT || 8000;
```

```

const connectDB = async () => {
  try {
    await mongoose.connect(process.env.MONGO_URI, {
      useNewUrlParser: true,
      useUnifiedTopology: true,
    });
    // console.log('MongoDB connected');

    app.listen(PORT, () => console.log(`Server running on port ${PORT}`));
  } catch (error) {
    console.error('server connection error:', error);
    process.exit(1);
  }
};
// app.listen(PORT)

module.exports=connectDB();

```

## Frontend

### App.js

```

import React from 'react';
import Survey from './components/Survey';

function App() {
  return (
    <div className="App">
      <Survey />
    </div>
  );
}

```

```
export default App;
```

### **Survey.js**

```
import React, { useState } from 'react';
```

```
import axios from 'axios';
```

```
const Survey = () => {
```

```
  const [questions, setQuestions] = useState([]);
```

```
  const [currentAnswer, setCurrentAnswer] = useState("");
```

```
  const fetchNextQuestion = async (response) => {
```

```
    try {
```

```
      const res = await axios.post('http://localhost:5000/api/survey/nextQuestion', {  
response,pre:questions[-1] });
```

```
      setQuestions([...questions, { question: res.data.question, response }]);
```

```
    } catch (error) {
```

```
      console.error('Error fetching next question:', error);
```

```
    }
```

```
  };
```

```
  const handleAnswerSubmit = (e) => {
```

```
    e.preventDefault();
```

```
    fetchNextQuestion(currentAnswer);
```

```
    setCurrentAnswer("");
```

```
  };
```

```
  const startSurvey = async () => {
```

```
    const res = await axios.get('http://localhost:5000/api/survey/start');
```

```
    setQuestions([{ question: res.data.question, response: " " }]);
```

```

};

return (
  <div>
    {questions.length === 0 && <button onClick={startSurvey}>Start Survey</button>}
    {questions.map((q, index) => (
      <div key={index}>
        <p>{q.question}</p>
        {index === questions.length - 1 && (
          <form onSubmit={handleAnswerSubmit}>
            <input
              type="text"
              value={currentAnswer}
              onChange={(e) => setCurrentAnswer(e.target.value)}
            />
            <button type="submit">Next</button>
          </form>
        )}
      </div>
    ))}
  </div>
);
};

export default Survey;

```