

WebX Lab CA - Report

Name of Student	Vaishnal Mali
Class Roll No	D15A_26
D.O.P.	20/03/2025
D.O.S.	27/03/2025
Sign and Grade	

TITLE : Prepwise

PROJECT DESCRIPTION

The **PrepWise** project is a **Fullstack AI Technical Interview Practice** developed using **Flask, MongoDB, React, and TypeScript**. It is an AI-powered career preparation platform that delivers personalized roadmaps to help users navigate and achieve their career goals efficiently.

The **backend** is built using **Flask (Python)** to handle API requests and communicate with the database. **MongoDB** is used for storing product details, user information, and order data. The **frontend** is developed using **React with TypeScript**, ensuring a responsive and dynamic user interface.

TECHNOLOGIES USED

- **Frontend:** React, TypeScript, Tailwind CSS
- **Backend:** Flask (Python)
- **Database:** MongoDB (Atlas)
- **Development Tools:** VS Code, Postman, Git

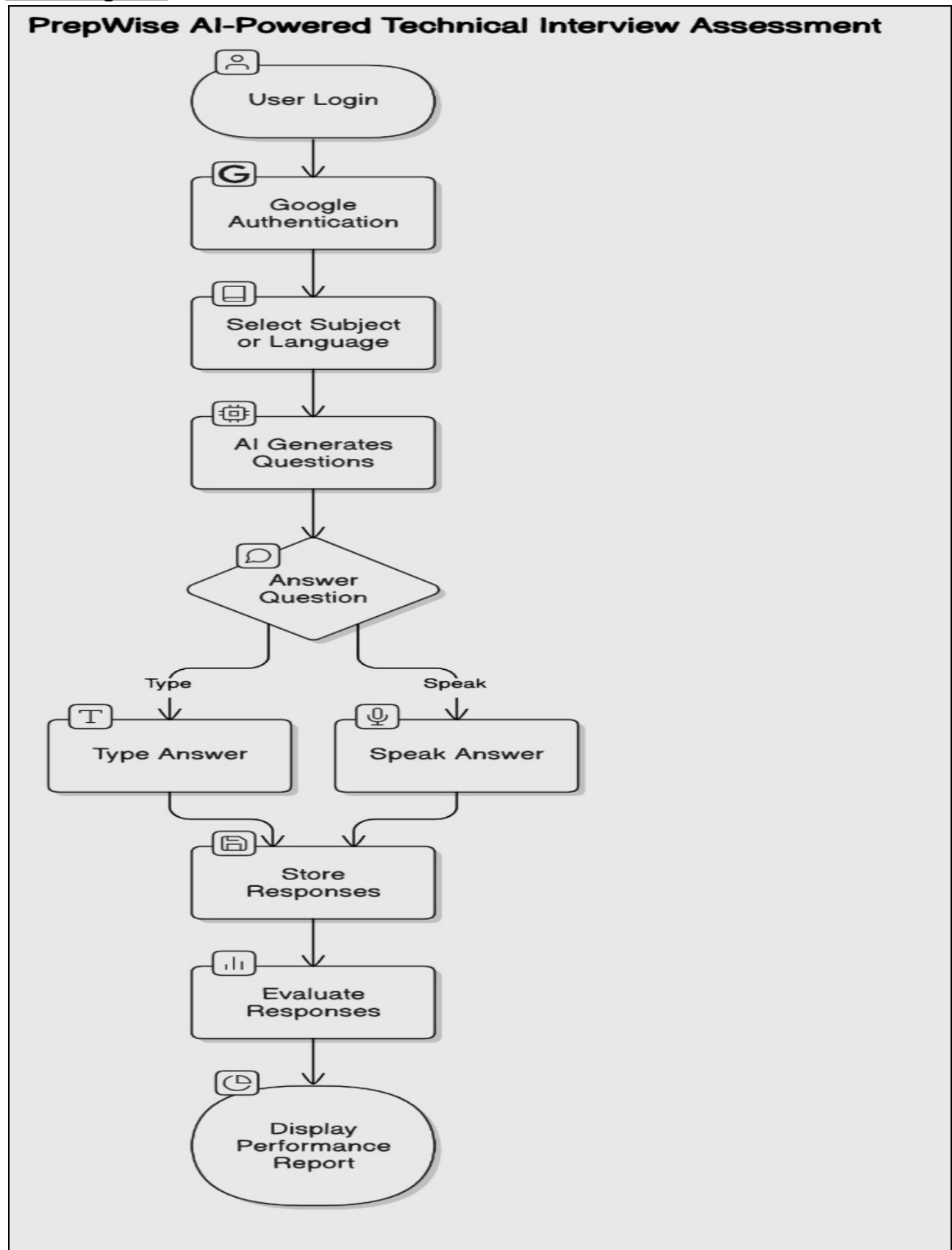
FEATURES IMPLEMENTED

AI-Powered Interview Assessment: Automatically generates 5 subject-specific technical questions and evaluates user responses with real-time feedback and accuracy scoring.

Multi-Modal Answer Input: Users can answer questions either by typing or speaking, with integrated speech-to-text functionality for voice input.

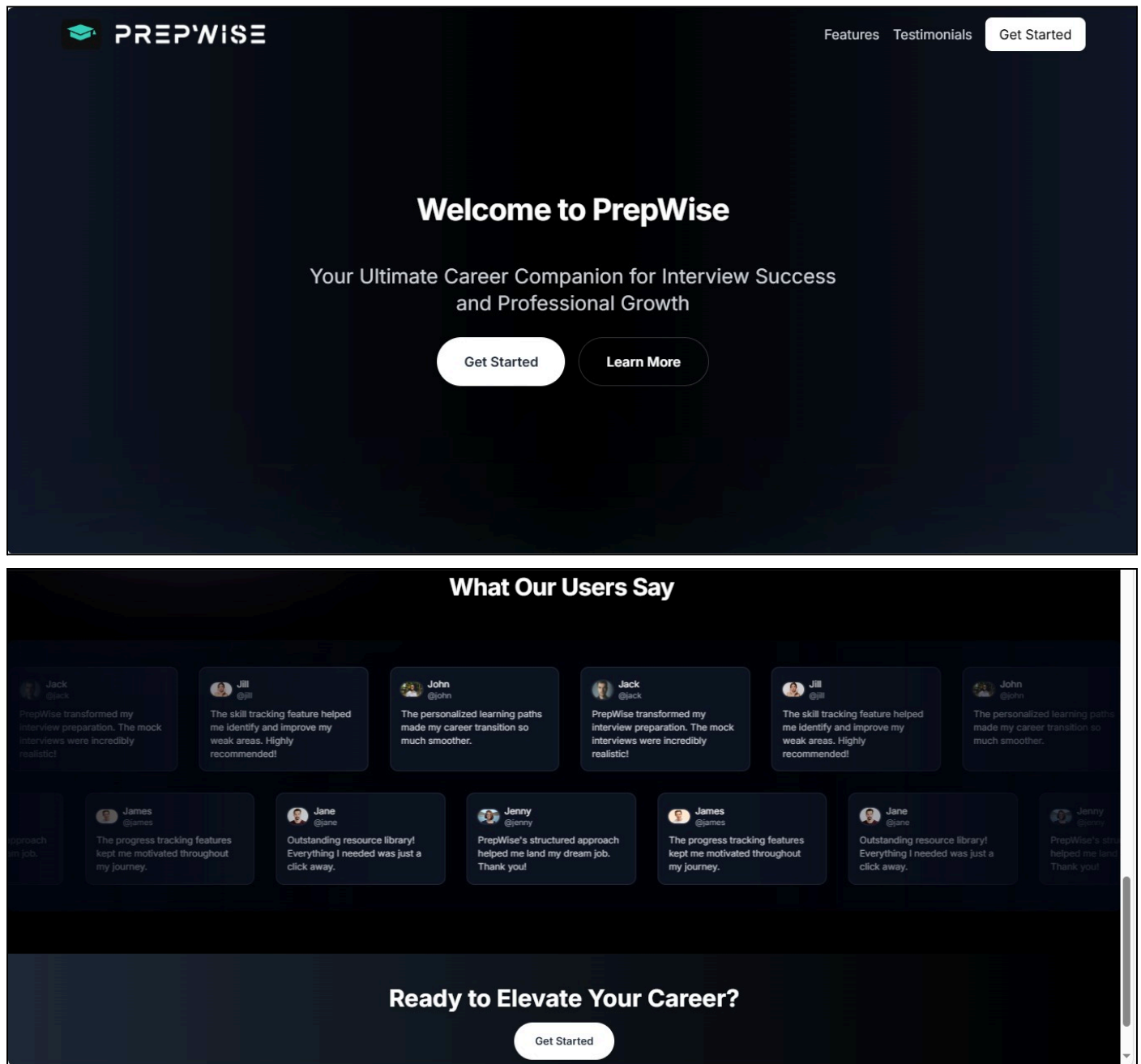
GITHUB LINK - <https://github.com/vaishnal16/webx-ca>

Flow Diagram:

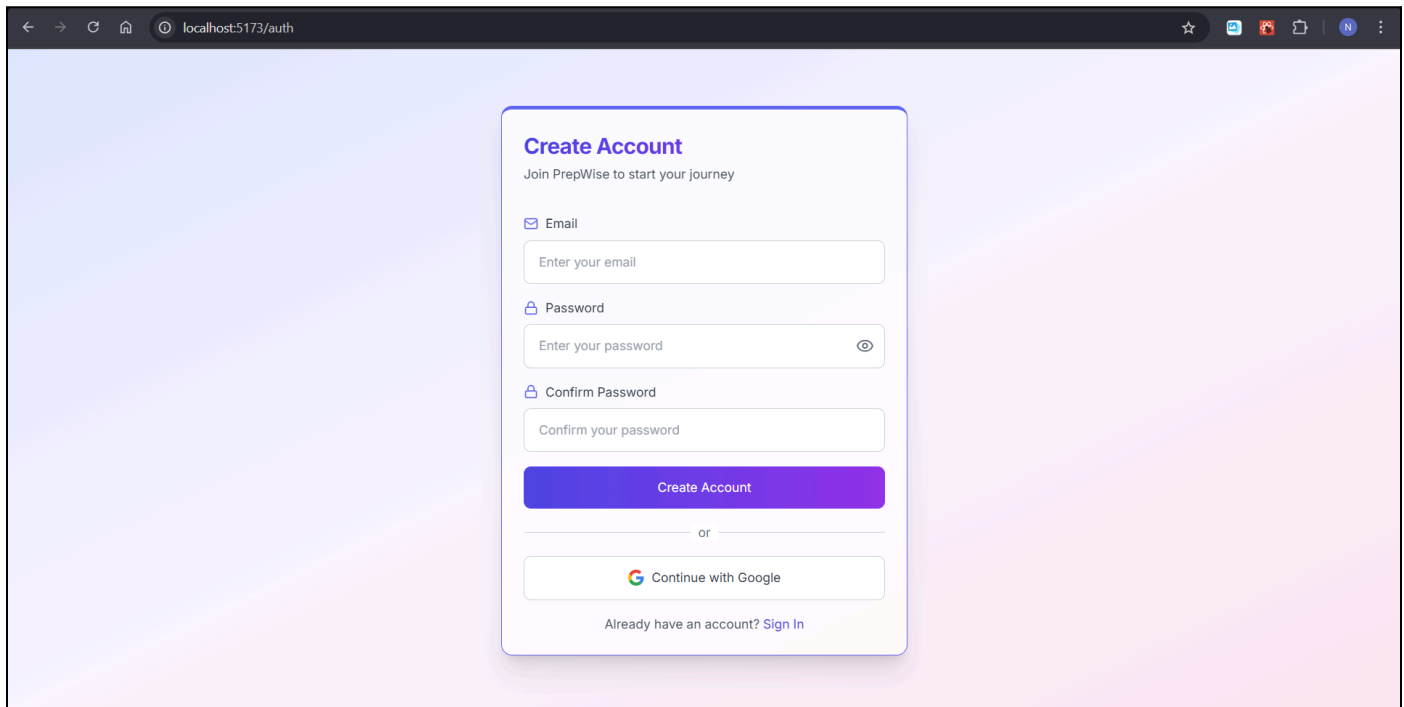


OUTPUT:

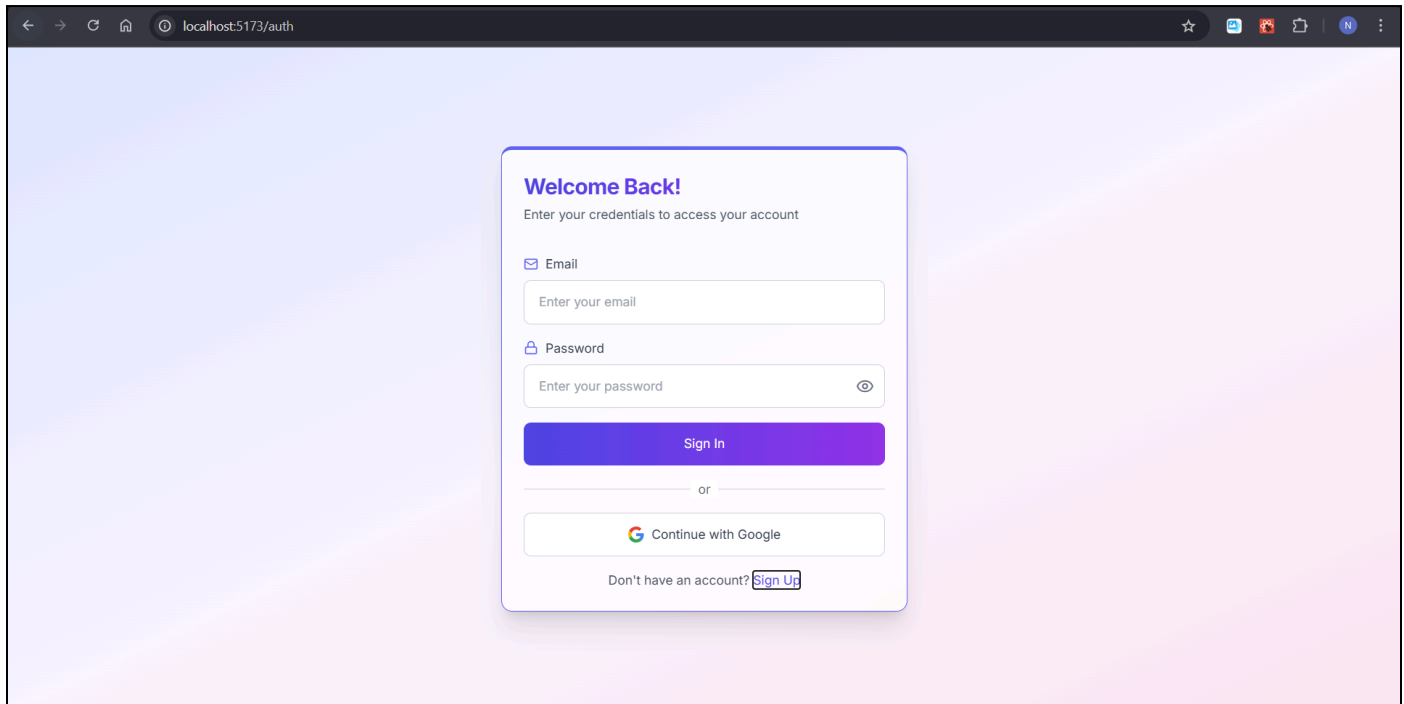
Landing Page:



Auth Page:



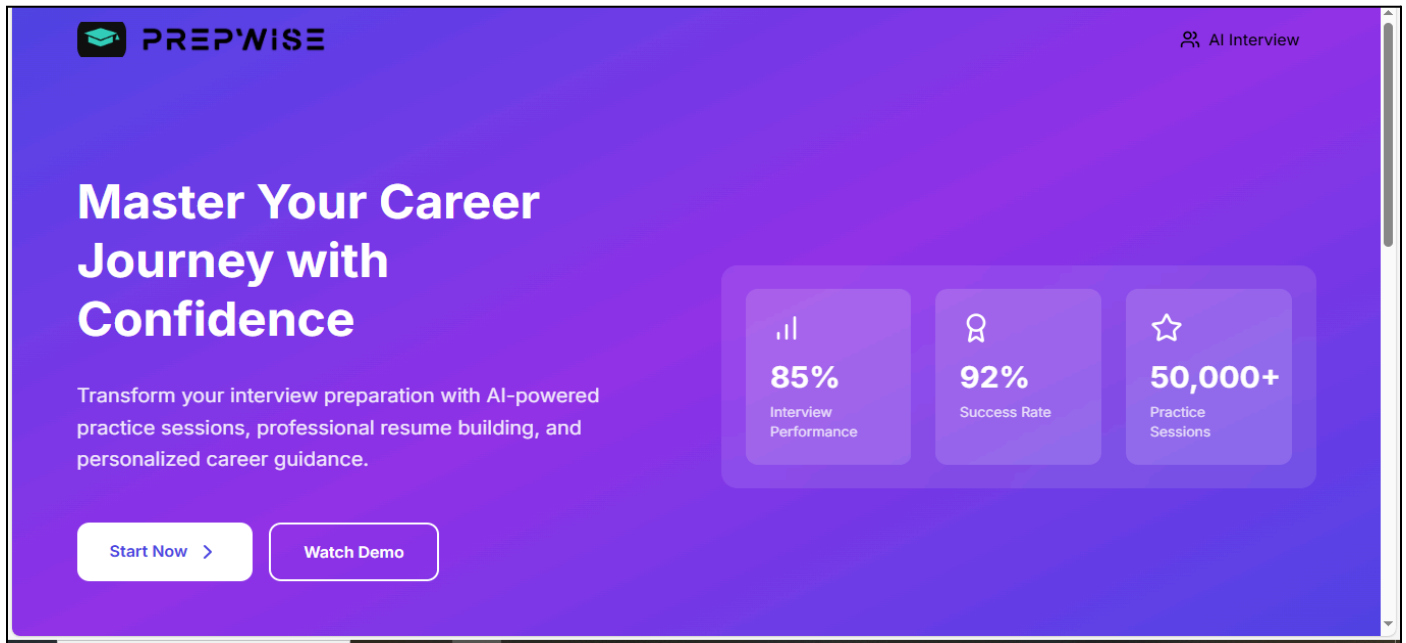
The screenshot shows a web browser window with the address bar displaying 'localhost:5173/auth'. The page features a 'Create Account' form centered on a light purple gradient background. The form has a title 'Create Account' and a subtitle 'Join PrepWise to start your journey'. It includes three input fields: 'Email' with a placeholder 'Enter your email', 'Password' with a placeholder 'Enter your password' and a toggle icon, and 'Confirm Password' with a placeholder 'Confirm your password'. Below these fields is a prominent purple 'Create Account' button. A horizontal line with the word 'or' in the center separates this from a 'Continue with Google' button, which features the Google logo. At the bottom of the form, there is a link that says 'Already have an account? Sign In'.



The screenshot shows a web browser window with the address bar displaying 'localhost:5173/auth'. The page features a 'Welcome Back!' form centered on a light purple gradient background. The form has a title 'Welcome Back!' and a subtitle 'Enter your credentials to access your account'. It includes two input fields: 'Email' with a placeholder 'Enter your email' and 'Password' with a placeholder 'Enter your password' and a toggle icon. Below these fields is a prominent purple 'Sign In' button. A horizontal line with the word 'or' in the center separates this from a 'Continue with Google' button, which features the Google logo. At the bottom of the form, there is a link that says 'Don't have an account? Sign Up'.

The auth page allows users to sign up or log in using manual registration or Google authentication to access their personalized dashboard.

Dashboard Page:



AI Interview Page:

← ↻ ⓘ localhost:5173/ai-interview 🔍 ☺ ☆ ⚙ ⋮ 🌈

AI Technical Interview Practice

Topic: JavaScript ▾ ⏮ Restart Question 1 of 5

Easy JavaScript Question 1 of 5

Write a JavaScript function that takes an array of objects, where each object has a 'name' and a 'price' property. The function should return an object with two properties: 'totalPrice' and 'averagePrice'. The 'totalPrice' property should be the sum of all prices, and the 'averagePrice' property should be the average of all prices. If the input array is empty, the function should return an object with both 'totalPrice' and 'averagePrice' set to 0.

Reference: https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/reduce

Your Response: ⬇ Start Recording

Type your answer here...

Press Alt+Space to toggle recording Press Ctrl+Enter to submit

Skip Question Submit Answer →

Debug Information ▾

← ↻ ⓘ localhost:5173/ai-interview 🔍 ☺ ☆ ⚙ ⋮ 🌈

AI Technical Interview Practice

Performance Summary

3.6

Overall Score

3.8

Correctness

3.4

Clarity

3.6

Completeness

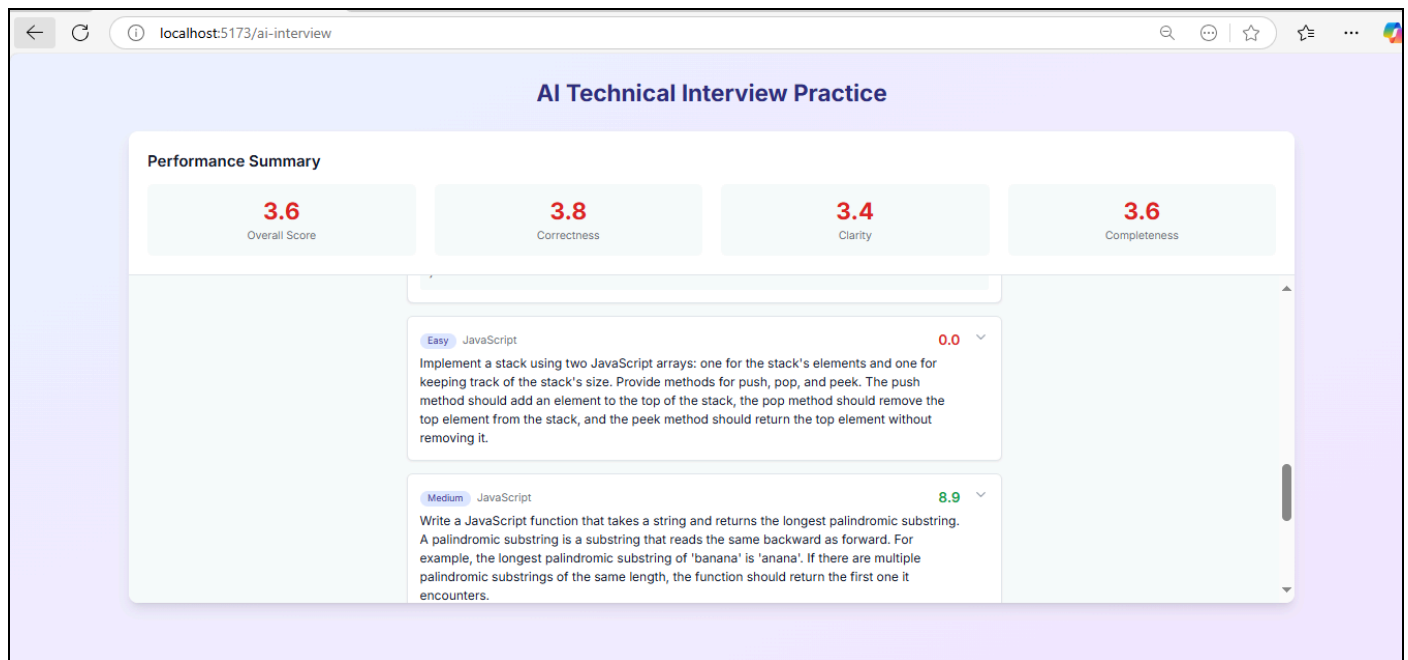
Detailed Feedback

Easy JavaScript 9.3 ^

Write a JavaScript function that takes an array of objects, where each object has a 'name' and a 'price' property. The function should return an object with two properties: 'totalPrice' and 'averagePrice'. The 'totalPrice' property should be the sum of all prices, and the 'averagePrice' property should be the average of all prices. If the input array is empty, the function should return an object with both 'totalPrice' and 'averagePrice' set to 0.

Your Response:

```
function calculatePriceStats(items) {
  if (!Array.isArray(items) || items.length === 0) {
    return {
      totalPrice: 0,
      averagePrice: 0
    };
  }
}
```



Your Response:

asasas

Metric	Score
Correctness	0.0
Clarity	0.0
Completeness	0.0

Feedback:

The response is not a valid solution to the problem. It does not provide a correct or meaningful answer. The candidate should have provided a JavaScript function that takes two arrays of numbers and returns the union of the two arrays.

Sample Answer:

```
function unionArrays(arr1, arr2) { let union = [...new Set([...arr1, ...arr2])]; return union.sort((a, b) => arr1.indexOf(a) - arr1.indexOf(b)); }
```

CONCLUSION:

The PrepWise platform streamlines the technical interview preparation process by leveraging AI to generate personalized interview questions and evaluate user responses in real-time. With features like Google Authentication, speech-to-text input, and automated feedback, it offers a flexible and user-friendly assessment experience. The system ensures accurate performance analysis and insightful feedback, helping users identify strengths and areas for improvement. Overall, PrepWise serves as an intelligent and efficient solution for enhancing technical readiness.