

Coding assessment Questions

General Instructions

Read Carefully:

Ensure that you thoroughly read each question and its requirements. If any part of a question is unclear, do not hesitate to ask for clarification.

Compulsory Questions:

- Question 1: Database and Frontend Integration
- Question 2: Copy the UI
- Question 4: Responsive Table with Popup Form

Time Management:

Allocate your time wisely, ensuring that you thoroughly complete the compulsory questions before moving on to the optional ones.

Question 1: Database and Frontend Integration

1. Database Setup:

- Create a database (using a system of your choice, e.g., MySQL, PostgreSQL, etc.).
- Within the database, create a table named **production** with the following columns (you may add additional details if desired):
 - **product_id** (Primary Key)
 - **product_name**
 - **product_image** (a URL to an image taken from the internet)
 - **product_price**
 - *(Optional: **product_description**, etc.)*

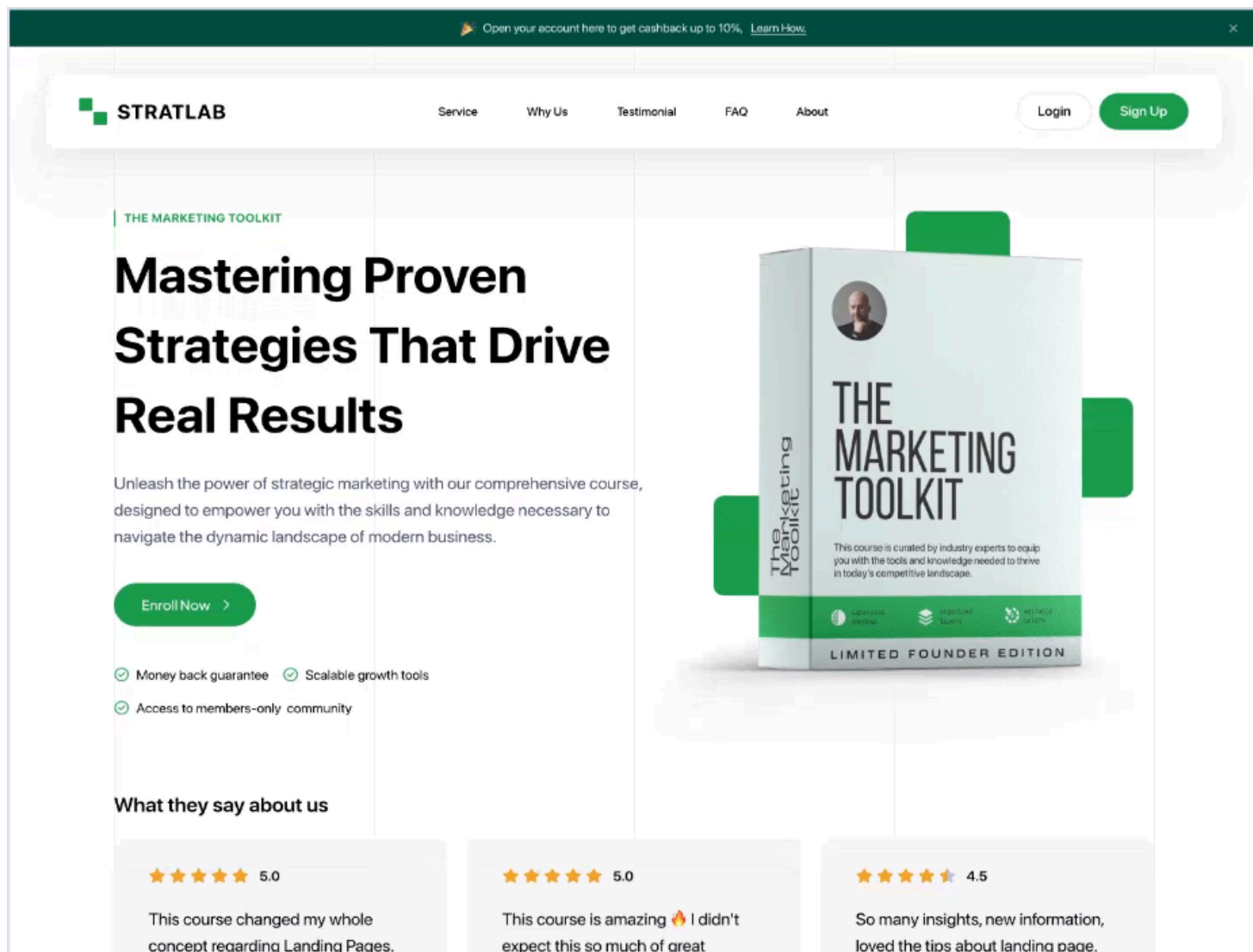
2. Backend Implementation:

- Write code that connects to your database and retrieves all product records from the **production** table.
- Expose an API endpoint (for example, **/api/products**) that returns the product data in JSON format.
- You may use any backend technology (e.g., Node.js/Express, PHP, Python/Django, etc.).

3. Frontend Implementation:

- Create a simple HTML/CSS/JavaScript page that calls your API endpoint.
- Display all the products in a card view. Each card should show:
 - Product Image
 - Product Name
 - Product Price
- Arrange the cards in a responsive grid layout with proper styling.

Question 2: Copy the UI



Question 3: Responsive Table with Popup Form

1. Responsive Table:

- Create a table with 9 rows of dummy data representing products (e.g., Product ID, Product Name, and Price).
- The table should be responsive:
 - On mobile devices: Display the table in its normal format (1 column per row).
 - On desktop screens: Display the table as a grid layout with items arranged in 3 columns.

2. Popup Form:

- Place a button at the top of the page. When clicked, it should open a popup modal containing a form.
- The popup form should have two fields (for example, "Name" and "Email") and two buttons: Clear and Submit.
- When Submit is clicked, the form data should be printed to the console.