Machine Test

Flutter Developer Assessment: Practical Machine Test

Objective:

Develop a basic e-commerce application using Flutter that showcases your ability to implement core features and design an attractive, user-friendly interface.

Features to Implement:

Product Listing:

- Display 20 hard-coded real products with with images, names, and prices.
- Each product should have an "Add to Cart" button.
- Design a visually appealing and intuitive UI.

Product Details Screen:

- When a product is selected, navigate to a detailed view displaying full product information.
- Include both "Add to Cart" and "Buy Now" options.

Product Details Screen:

- Implement a sign-up and login system with OTP authentication (use a third-party plugin for OTP).
- If a new user signs up, they receive a scratch card.
- The scratch card should reveal a random product available for Rs. 0, with an option to add it to the cart and purchase it at Rs. 0.

Cart Functionality:

- Create a Cart screen that displays all added products.
- Show the total cost and provide an option to remove items from the cart.
- Include a "Proceed to Checkout" button

Checkout and Transaction:

- On checkout, simulate a payment process (dummy data is acceptable).
- Include a "Buy Now" button to finalize the transaction.
- Generate a PDF receipt post-transaction, containing:
    Product Name(s)
    Quantity
    Total Price
    Transaction ID
    Date of Purchase
- Provide an option to download or share the receipt.

UI/UX Design:

- Focus on creating an elegant, user-friendly interface with an emphasis on aesthetics.
- Implement AI-powered animations (e.g., smooth transitions, product animations) to enhance the user experience.

Tech Stack:

- Use Flutter for the frontend.
- Utilize any suitable library for PDF generation (e.g., the pdf package in Flutter).
- Backend implementation can be basic; focus on the core functionality and user interface.

Submission Guidelines:

- Ensure the code is well-structured and adequately commented.
- Include a README file detailing setup instructions, app architecture, and an explanation of the AI animations used.
- Submit the project as a ZIP file or via a Git repository link.

Evaluation Criteria:

- Functional correctness and completeness of the application.
- Quality and elegance of UI/UX design.
- Smoothness and creativity in AI animations.
- Proper implementation of cart functionality and transaction flow.
- Accuracy and formatting of the PDF receipt generation.
- Code quality, readability, and documentation.
- Timely completion of the project.

Good Luck