

Test plan of functional and non-functional testing for demoblaze app

Functional Test Plan

- **Registration**

- Validate existence of email, username, password and confirm password
- Validate password criteria for security
- Validate that the app send verification email for the user email
- Validate user will have valid credentials after verifying email
- Validate user will get clear error message if they filled any invalid input
- Validate user will get clear error message if tried to signup while they have valid active account

- **Login**

- Validate user can login with valid credentials after verifying their email
- Validate user will get secure error message if entered any wrong information in the credentials
- Validate forget password will send email to targeted email

- **Product Search**

- Validate user can search for product from home page
- Validate most relative products will be filtered using keyword from search bar
- Validate user can select product category (phones, monitors, laptops)

- **Product Selection**

- Validate user can see initial description on the product cart
- Validate can select product by clicking it from home page (Brand, specs, etc.)

- **Cart Management**

- Validate user can access cart from nav bar and other handy positions for better usability
- Validate all order details are displayed in card table
- Validate user can change quantity from cart table

- **Payment Processing**

- Validate integration with safe payment service to keep users info secure
- Validate payment service will identify card status (expired, active)
- Validate payment service will require card number, expiry and cvv for Cart verification
- Validate payment service will withdraw order price after user checks out the order
- Validate order will fail the card does not have enough
- Validate app provides option for the user to save card info or not
- Validate app uses cvv if user selected to save card info in the app
- Validate app supports COD payment

- **Checkout**

- Validate check out form has detailed information about the address (country, city, street, block)
- Validate user can check out as a guest
- Validate user can check out as a logged in user

Non-Functional Test Plan

- **Security testing**

- Validate security of login api to keep users info safe
- Validate email verification if same user opened other session
- Validate passwords are encrypted in case of leakage
- Validate payment sensitive info are encrypted in case of leakage

- **Performance testing**

- Enable monitoring tool to identify critical path and number of active users on the app on normal days and stress days.
- Make sure response time does not exceed 2 seconds less for navigation between application sections and under normal load testing and stress testing.