

Test Strategy

Purpose

The purpose of testing is to ensure the quality, reliability, and functionality of software or a system. It involves systematically evaluating and validating various aspects of the system to identify defects, errors, or areas of improvement. The key purpose of testing is Detecting Defects, Verifying Functionality, Ensuring Reliability, Validating Requirements, Improving Quality, Reducing Risks and Enhancing User Satisfaction.

Scope

The scope of this test plan includes the following areas:

- Navigation Drawer functionality
- Various 21 Days Challenge module functionality which is available on Home Screen
- Unity Ads implementation functionality
- BMI (Body Mass Index) calculator functionality
- User workout history functionality
- Workout activity functionality

Test Levels

- Unit Testing
- Integration Testing
- System Testing
- Acceptance Testing

Test Types

- Smoke Testing
- Sanity Testing
- Regression Testing
- Functional Testing
- UI/UX Testing
- Performance Testing
- Security Testing
- Compatibility Testing

- Video Implementation Testing
- Mobile Ads Implementation Testing

Test Techniques

- Black-box Testing
- White-box Testing
- Exploratory Testing
- Usability Testing
- Load Testing
- Device Fragmentation Testing
- Video Playback Testing
- Offline Testing
- Test Environments
- Emulators
- Physical Devices
- Android Studio IDE
- Various Android Versions
- Different Devices
- Various Network Conditions

Test Schedule

Parallel with development cycle

Tools

- Android Studio
- Emulators
- Physical Devices
- Appium
- TestNG
- UI Automator
- Load Testing Tools
- Crashlytics
- Word and Excel documents

Resource Allocation

Rahul Kawatghare as Android Developer and Software Tester

Risk Management

Changes in Requirements

Technical Issues

Compatibility Issue

Offline Mode Failures

Unexpected App Behavior

Test Exit Criteria

No Critical and High Priority Defects

No Critical GUI Issues

App Works on Major Devices

App Functions Smoothly in Offline Mode

Smooth Video Playback

Consistent Behavior in All Scenarios