Test Environment Setup

Introduction

The Full Body Workout Android App is a comprehensive fitness application designed to facilitate users in performing effective full-body workouts at home without the need for any equipment. The app caters to users of all fitness levels, irrespective of gender, offering a range of features including workout routines, challenges, animations, and voice guidance.

Purpose

The purpose of this test environment document is to outline the necessary infrastructure, configurations, and procedures for testing the Full Body Workout Android App. The testing aims to ensure the app's functionality, usability, and performance across various Android devices, screen sizes, and network conditions.

Test Environment Setup for Full Body Workout Android App

Hardware Requirements:

PC/Laptop:
Minimum: Dual-core processor, 4GB RAM
Recommended: Quad-core processor, 8GB RAM

Android Devices:
A range of Android devices for testing different screen sizes and resolutions.
Include devices from popular manufacturers like Samsung, Oppo, Redmi, Oneplus.

Software Requirements:

Android Studio:
Install the latest version of Android Studio IDE for development and testing.

Android Emulators:

Configure Android Emulators with various Android versions (Android 12, Android 10, Oreo) to test compatibility.
Emulators for different screen sizes and resolutions.

Operating Systems:
Android Mobile OS – Chrome for testing on web-based platforms.

Internet Connectivity:
To test features like 21 Days Challenge,voice assistants and Ads Implementation that may require an internet connection.

Testing Tools:

Defect Tracking:
Use MS Excel or any defect tracking tool for efficient defect reporting and tracking.

Performance Testing:
If needed, consider using performance testing tools to evaluate app responsiveness and stability.

Automation Tools (Optional):
Appium, UI Automator, or other automation tools if you plan to automate test cases.

Setup Steps:

Install Android Studio:
Download and install the latest version of Android Studio.

Configure Emulators:
Set up Android Emulators with various Android versions and device configurations.
Test the app on both emulators and physical devices.

Install Additional Software:
Install necessary software for defect tracking, performance testing, and automation (if applicable).

Internet Connection:
Ensure a stable internet connection for testing features like online reminders and challenges.

Prepare Test Data:
Create a set of test data for different levels (Beginner, Intermediate, Advanced) to test the app's flexibility.

Defect Tracking Setup:
Establish a system for defect tracking using MS Excel or a defect tracking tool.

Performance Testing (Optional):
If applicable, set up tools for performance testing and configure them as needed.

Automation (Optional):
If using automation, configure Appium or other tools for running automated test scripts

Environment Security:
Ensure secure access to the test environment, especially if the app involves user data.

By setting up this test environment and following these steps, you can comprehensively test the Full Body Workout Android App, ensuring its functionality, performance, and user satisfaction across various scenarios and devices.