

# Test Strategy

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## Introduction:

This test strategy outlines the features to be tested, the type of testing to be conducted, and the specifications pertaining to the computer system that will be used to perform the tests.

The purpose of this test strategy is to find any errors made during the development process. Any errors found during the testing process will then be forwarded to the programmers to repair the feature.

The aim of this test strategy is to ensure the application's quality within all phrases of the system development lifecycle to deliver a fantastic product to the users.

## Features to be Tested:

The features below will be executed from an end user's perspective:

Feature
Application Start / Load - UI
Application Start / Load - UI Functionality
Main – Supported Input Types
Main Menu (Buttons) – UI
Main Menu (Buttons) – UI Functionality
Main – GUI Elements – UI
Main – GUI Elements – UI Functionality
Main – Dropdown Elements – UI
Main – Dropdown Elements – UI Functionality
Main – Meters – UI
Main – Meters – UI Functionality

Friends – List Panel – UI
Friends – List Panel – UI Functionality
Friends – Add Panel – UI
Friends – Add Panel – UI Functionality
Server Panel – UI
Server Panel – UI Functionality
Server Panel – Scroll View Item – UI
Server Panel – Scroll View Item – UI Functionality
Options Panel – Main – UI
Options Panel – Main – UI Functionality
Options Panel – General Options – UI
Options Panel – General Options – UI Functionality
Options Panel – Graphics Options – UI
Options Panel – Graphics Options – UI Functionality
Options Panel – Audio Options – UI
Options Panel – Audio Options – UI Functionality
Options Panel – Control Options – UI
Options Panel – Control Options – UI Functionality
Pause Menu – Settings – Main – UI
Pause Menu – Settings – Main – UI Functionality
Pause Menu – Settings – General Options – UI
Pause Menu – Settings – General Options – UI Functionality
Pause Menu – Settings – Graphics Options – UI
Pause Menu – Settings – Graphics Options – UI Functionality
Pause Menu – Settings – Audio Options – UI
Pause Menu – Settings – Audio Options – UI Functionality
Pause Menu – Settings – Control Options – UI
Pause Menu – Settings – Control Options – UI Functionality

## Approach / Testing Type

The testing types that will be utilized for this test plan are manual black box testing and automated white box unit testing.

Manual black box testing, as the phrase suggests, is a test process in which a highly skilled individual manually tests an application without peering into its internal structure in order to identify bugs from an end user’s perspective. The highly skilled individual must follow a written test plan that describes a set of unique test scenarios.

White box unit testing, as the name implies, is a method of testing software that tests the inner workings of an application. White box unit testing does this by allowing testers to run pieces of code that will test sections of functionality within the application’s internal structure.

## Item Pass / Fail Criteria

### Pass

Test cases will be passed if no errors are found, or an error is found but cannot be replicated by another team member.

### Fail

Test cases will be failed if an error is found and can be replicated by another team member.

## Test Deliverables

The following will be delivered to the programmers:

- Document outlining the test strategy
- Test Plans
- Bug Template

## Test Environment

### Hardware

**Video Card** EVGA GeForce RTX 2080 Black Edition

**CPU** Ryzen 5 3600x

**RAM** Trident Z RGB 2x8GB

**Motherboard** X570 Phantom Gaming 4

**PSU** RM750x

**Storage Devices** Crucial MX500 2TB, Seagate Barracuda 3TB 7200RPM

### Software

**OS Version** Windows 10 Home

### Network Connection Type

**Network Connection Type** 2.4 GHz

## Task Management System

**Link:** <https://tasks.office.com/edunetnz.onmicrosoft.com/Home/PlanViews/tKJpqbo0sUSpB2ETMzxMR8gAAuLw?Type=PlanLink&Channel=Link&CreatedTime=637666630259250000>