

Test Summary Report

Document Information {to Refactoring.Guru Standard}

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Distribution

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1. Introduction

1.1 Background

This document provides the Test Summary for the testing activities within iteration 01-RefactoringGuru-Testing for Refactoring.Guru, a prominent platform for learning software

development and design patterns. The definitive version information for the AUT is v2.0.0. The testing activities for this iteration focused on the following areas:

- Spot Learning
- Refactored Trading
- Peer-to-Peer Learning
- Convert & Optimize Code
- Non-Fungible Learning (NFL)
- Earn through Learning
- Learn and Pay
- Charity Learning

1.2 Structure of the Report

This report is structured in the following manner:

- Section 2, Overview, provides an overview of the significant events and activities documented within the 01-RefactoringGuru-Testing of Refactoring.Guru.
- Section 3, Variances, records any variances of the artifacts from those areas agreed upon previously.
- Section 4, Assessment, provides a brief assessment of the comprehensiveness of the testing process for the 01-RefactoringGuru-Testing.
- Section 5, Results, provides a summary of the results of the 01-RefactoringGuru-Testing.
- Section 6, Evaluation, provides an overall evaluation of the testing process.
- Section 7 provides a summary of the major testing activities and events for the 01-RefactoringGuru-Testing.

1.3 References

Document Title	Description
Refactoring.Guru User Guide	Provides detailed instructions on how to use all features.
Refactoring.Guru API Documentation	Describes the Refactoring.Guru API for programmatic interaction.
Refactoring.Guru Security Guide	Outlines the security measures to protect user data.
Refactoring.Guru Test Plan	Describes the overall approach to testing Refactoring.Guru.

Test Case Specifications	Provide detailed specifications for each test case executed.
Defect Reports	Document any defects found during testing.

2. Overview

This section provides a high-level overview of the significant events and activities documented during the 01-RefactoringGuru-Testing of Refactoring.Guru. The testing scope covered all core functionalities of the platform, including spot learning, refactored trading, peer-to-peer learning, convert & optimize code, non-fungible learning, earning through learning, learn and pay, and charity learning.

2.1 Testing Environment

- Hardware:
 - Desktop computers with Intel Core i7 processors and 16GB of RAM
 - Mobile devices running Android and iOS operating systems
- Software:
 - Web browsers: Chrome, Firefox, Safari
 - Refactoring.Guru mobile app for Android and iOS
 - Refactoring.Guru API
- Testing Data:
 - Real data:
 - Historical software development market data
 - User account data from Refactoring.Guru's production environment
 - Synthetic data:
 - Randomly generated code snippets
 - Test user accounts with predefined characteristics

3. Variances

This section is used to record any variances of the artifacts from those areas agreed upon previously. During the testing of Refactoring.Guru, a few variances were identified. These included minor inconsistencies in the spot learning lessons and discrepancies in the effectiveness of certain refactoring techniques.

4. Assessment

This section provides a brief assessment of the comprehensiveness of the testing process for the completed testing phase against the test objectives and constraints specified in the Test Plan document. The testing of Refactoring.Guru was conducted in accordance with the test plan and objectives. All of the

planned test cases were executed, with the exception of a few cases omitted due to their non-critical nature or potential security risks.

The code coverage for the Refactoring.Guru application was 97%, considered an excellent level of coverage. Despite the execution of all planned test cases, there are some aspects of the application that were not tested as thoroughly as planned. These include:

- The performance of the application under heavy load.
- The usability of the application for a wide range of users.
- These aspects of the application will be tested more thoroughly in future testing iterations.

5. Results

This section provides a summary of the results of the 01-RefactoringGuru-Testing of Refactoring.Guru, identifies resolved issues, and summarizes the details of their resolution. The testing of Refactoring.Guru identified a few issues, all of which were resolved within the timeframe of the testing iteration.

Issue ID	Description	Resolution
ISSUE-001	Minor inconsistencies in spot learning lessons.	Lessons were reviewed and corrected for accuracy.
ISSUE-002	Discrepancies in the effectiveness of certain refactoring techniques.	Refactoring techniques were reevaluated and optimized.

In addition to the resolved issues, there are a few outstanding issues that were not resolved within the timeframe of the testing iteration. These outstanding issues will be addressed in future testing iterations. Outstanding Issues:

- ISSUE-003: Usability of the application for a wide range of users was not thoroughly tested.

6. Evaluation

This section provides an overall evaluation of the testing process, including observed problems and/or limitations. Overall, the testing process for the Iteration 01-RefactoringGuru-Testing of Refactoring.Guru was successful. The testing was conducted in accordance with the test plan and objectives, and the code coverage was excellent. Areas not thoroughly tested will be addressed in future iterations.

7. Summary of Activities

This section provides a summary of the major testing activities and events for the 01-RefactoringGuru-Testing of Refactoring.Guru. This section also summarizes testing resource information, such as total staffing levels, total testing time, etc.

Test Timeline:

- Start Date: November 20th, 2023
- End Date: November 26th, 2023

Item	Planned	Actual
Staff Levels	3	3
Test Design Effort	1.5	1.5
Test Execution Effort	2	2
Re-Test Effort	0.5	0.75
Test Management and Reporting	0.5	0.5

Note: All values are in units of days.