

TEST PLAN

PROJECT NAMEFindAcademia - Find the best college for you

PROJECT IDFA001

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INTRODUCTION

This test plan outlines the strategy and methodologies for validating the FindAcademia application. Testing will focus on ensuring that the application functions correctly, meets user requirements, and delivers a positive user experience.

Test Strategies

Unit Testing: Verify individual components for correct functionality.

Integration Testing: Ensure seamless interaction between frontend, backend, and database.

Functional Testing: Confirm the application performs all specified tasks as intended.

Usability Testing: Assess user interface for ease of use and design consistency.

Process and Workflow

SCOPE

IN SCOPE

Search Functionality: Testing the ability to search for colleges by city, state, and category.

Database Integration: Ensuring data is correctly stored, retrieved, and displayed.

User Interface: Checking the usability and design consistency of the application.

OUT SCOPE

Load Testing: Not included in the current testing phase.

Security Testing: Comprehensive security assessments are not part of this plan.

Performance Optimization: Detailed performance tuning and optimization will not be tested at this stage.

QUALITY OBJECTIVE

Verify Functional and Non-Functional Requirements: Ensure the application meets all specified requirements.

Achieve Quality Standards: Confirm the application adheres to client-defined quality specifications.

Identify and Resolve Issues: Detect and fix bugs before the final release.

ROLES AND RESPONSIBILITIES

QA Analyst: Responsible for designing, executing, and documenting test cases. Ensures that the application meets quality standards.

Test Manager: Oversees the testing process, manages test planning, and tracks progress. Ensures testing aligns with project goals.

Configuration Manager: Handles configuration management and ensures proper version control of the application and test environments.

Developer: Implements bug fixes and improvements based on test results. Assists with debugging and optimizing the application.

TEST METHODOLOGY

OVERVIEW

The Agile test methodology is adopted for the FindAcademia project. Agile allows for iterative development and frequent testing, which aligns with the need for continuous feedback and quick adjustments throughout the development process. This approach ensures that the application evolves with user needs and improves through regular updates and testing cycles.

TEST LEVELS

Given the project scope and timeline, **System Testing** will be conducted. This level of testing ensures that the entire application is tested as a whole, validating end-to-end functionality, performance, and integration of all components. Given the scope and the timelines of this project we suggest 'System Testing' for the project.

BUG TRIAGE

Prioritization: Bugs are categorized based on severity (Critical, Major, Minor) and impact on functionality.

Resolution: Critical and Major bugs are addressed first to ensure core functionalities are operational. Minor bugs are resolved as time allows.

Schedule: Bugs are fixed according to priority, with high-severity issues targeted for immediate resolution and lower-priority bugs scheduled for later fixes.

TEST COMPLETENESS

Test Coverage: All critical functionalities are tested.

Test Execution: All manual and automated test cases are executed.

Bug Resolution: All high-severity bugs are fixed; remaining bugs are scheduled for future releases.

TEST DELIVERABLES

Test Plan: Outlines the testing approach and scope.

Test Cases: Detailed scenarios for validating application functionality.

Requirement Traceability Matrix: Maps test cases to requirements.

Bug Reports: Documentation of identified issues and their status.

Test Strategy: Overall testing methodology and approach.

Test Metrics: Performance and test execution statistics.

Customer Sign-Off: Confirmation of test completion and acceptance.

RESOURCE AND ENVIRONMENT NEEDS

TESTING TOOLS

Requirements Tracking Tool: JIRA

Bug Tracking Tool: Bugzilla

Automation Tools: Selenium

TEST ENVIRONMENT

Processor: Intel i5 or equivalent

RAM: 8 GB

Storage: 256 GB SSD

Operating System: Windows 10 or macOS

Network: Stable internet connection for accessing online tools and repositories

ADDITIONAL COMMENTS

Documentation: Ensure all test cases, bugs, and results are well-documented to facilitate smooth project handover and future reference.

Version Control: Regularly commit and push changes to version control systems (e.g., Git) to maintain a record of development progress.

TEST PLAN						
ITEMS TO TEST	TEST DESCRIPTION	TEST START DATE	TEST END DATE	RESPONSIBLE PERSON	STATUS	COMMENTS
Search Functionality	Test college search by city, state, and category	25-08-2024	25-08-2024	Mshireen A	Completed	Functionality is working as expected
Database Integration	Check data storage and retrieval	25-08-2024	28-08-2024	Mshireen A	Completed	Data is stored and retrieved correctly
User Interface	Assess UI design and usability	29-08-2024	29-08-2024	Mshireen A	Completed	UI is user-friendly and consistent