

# Integration Test Report

**Project Name:** FloTorch

**Test Name:** Integration Test for Project Workflow in FloTorch.ai

**Test Date:** December 6, 2024

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## 1. Objective

To verify the seamless integration of the key components in FloTorch.ai's project workflow, including project creation, configuration, experiment execution, and evaluation, ensuring that users can efficiently manage and execute RAG system experiments.

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## 2. Scope

The integration test ensures:

1. Correct navigation between application pages (Welcome, Projects, and Experiment configurations).
  2. Accurate data flow between project creation, indexing, and retrieval configuration modules.
  3. Experiment execution and monitoring work as expected.
  4. Evaluation metrics and results display correctly after experiment completion.
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## 3. Test Environment

- **Hosting Platform:** AWS App Runner
  - **Front-end Framework:** Nuxt 3, Vue 3
  - **Back-end Framework:** FastAPI
  - **Database:** DynamoDB
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## 4. Test Scenarios

Scenario ID	Scenario Description	Expected Result	Status
FT-001	Access Welcome Page.	The user is greeted with the Welcome Page and can click 'Get Started' to proceed to the Projects page.	Passed
FT-002	Navigate to Projects page.	Projects page loads, displaying existing projects with details (ID, Name, Region, Status, Date).	Passed
FT-003	Create a new project manually.	The user can fill out all fields, proceed through indexing and retrieval configuration pages.	Passed
FT-004	Create a new project using a config file.	The config file is uploaded, parameters are auto-filled, and valid experiments are displayed.	Passed
FT-005	Execute multiple experiments.	Selected experiments move to "In Progress" state and execute as expected.	Passed
FT-006	Monitor experiment statuses.	Experiment statuses update dynamically (e.g., Not Started, Indexing, Retrieval, Completed).	Passed
FT-007	View completed experiment evaluation results.	Evaluation metrics and model-generated answers are displayed correctly for completed experiments.	Passed
FT-008	Handle failed experiments.	Failed experiments are marked as "Failed" with an appropriate error message visible to the user.	Passed

## 5. Test Results

### Passed Scenarios:

- FT-001
- FT-002
- FT-003
- FT-004
- FT-005
- FT-006
- FT-007

- FT-008

#### Failed Scenarios:

None

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### 6. Issues Identified

Issue ID	Description	Impact	Resolution Plan
None	-	-	-

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### 7. Recommendations

- Ensure consistent user guidance for manual and configuration-file-based project creation workflows.
  - Add edge case handling for unsupported formats in configuration files.
  - Enhance real-time monitoring with additional experiment-level logs for troubleshooting.
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### 8. Conclusion

The integration test validated that FloTorch.ai's workflow, from project creation to evaluation, functions seamlessly. No critical issues were identified. The product is ready for further performance testing and user acceptance testing.