

Agile User Story

Retrieval-Augmented Generation (RAG) Application

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Date

Table of Contents

1. What is an Agile User Story?
2. The Characteristics of a User Story
3. What to Avoid When Writing User Stories
4. RAG System User Story with Acceptance Criteria and Testing

What is an Agile User Story?

A user story is an Agile project management tool used to define product functionality and its associated benefit. In the context of the RAG Application, the user story describes how different users will interact with the system to retrieve and integrate relevant external knowledge into AI-generated responses, ensuring accuracy and relevance.

The Characteristics of a User Story

A well-defined user story should be:

- **Independent**: Can be developed and implemented separately.
- **Negotiable**: Allows for collaboration and flexibility in implementation.
- **Valuable**: Provides clear business or user benefits.
- **Estimable**: Can be estimated for effort and resources.
- **Small**: Should be achievable within a single sprint.
- **Testable**: Must have clear acceptance criteria.

What to Avoid When Writing User Stories

Common mistakes when writing user stories include:

- **Not involving stakeholders**: The product owner or end-user should always be involved.
- **Overloading with details**: Too much specificity can limit flexibility and innovation.
- **Lack of acceptance criteria**: Without clear criteria, it is difficult to validate completion.

RAG System User Story with Acceptance Criteria and Testing

User Story:

As a knowledge worker, I want the RAG system to retrieve and integrate relevant external knowledge into AI-generated responses so that I can receive accurate, context-aware answers that improve my research and decision-making.

Acceptance Criteria:

- System processes user queries and identifies key topics.
- Retrieves and ranks the most relevant external knowledge sources.
- Generates responses that seamlessly incorporate retrieved information.
- Allows users to filter sources based on reliability, recency, or domain.
- Provides citations and reference links to retrieved documents.
- Supports user feedback for improving response accuracy.

Acceptance Testing:

- Submit queries and verify that retrieved documents are relevant.
- Check response generation to ensure retrieved content is properly integrated.
- Confirm filtering options refine the knowledge base results as expected.
- Validate that citations are included in AI-generated responses.
- Test user feedback mechanisms for improving retrieval accuracy.

Sponsor Acceptance

Approved by the Project Sponsor:

Date: _____

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