

Shadoq CAT tool

CAT Tool Plan Document - Sprint 1

1. Introduction

- Purpose: This document outlines the plan for software development during Sprint 1 of the CAT (Computer-Assisted Translation) Tool project.
- Scope: The scope of Sprint 1 includes implementing the core functionality of the CAT Tool, such as user authentication, project creation, and translation memory integration.
- Objectives: The objectives of Sprint 1 are to establish the basic infrastructure of the CAT Tool, enable user registration and authentication, and implement project creation and translation memory integration features.

2. Project Overview

- Project Name: CAT Build
- Project Description: CAT Build is a software project aimed at developing a user-friendly and efficient CAT Tool for professional translators. The tool will facilitate the translation process by providing features such as translation memory, terminology management, and collaboration capabilities.
- Project Team:
 - Lead Developer: Hoàng Khải
 - Quality Assurance: Hoàng Khải

3. Sprint Details

- Duration: The duration of Sprint 1 will be from 27/12 to 27/1.
- Sprint Goal: The goal of Sprint 1 is to establish the basic functionality of the CAT Tool, including user authentication, project creation, and translation memory integration.
- User Stories:
 - User Story 1: As a user, I want to be able to register and authenticate to access the CAT Tool.
 - User Story 2: As a user, I want to be able to create new translation projects and manage them.
 - User Story 3: As a user, I want to be able to integrate translation memory systems to leverage existing translations.

4. Development Approach

- Methodology: The software development will follow the Agile methodology, specifically Scrum.
- Roles and Responsibilities:
 - Lead Developer: Provide technical guidance, review code, and ensure adherence to best practices.
 - Front-end Developer: Develop the user interface and client-side functionality.
 - Back-end Developer: Implement server-side logic, APIs, and database integration.
 - Quality Assurance: Conduct testing, including unit testing and integration testing.

5. Sprint Backlog

- Tasks:
 - Task 1: Design and implement user registration and authentication functionality.
 - Task 2: Develop project creation feature, including database schema and API endpoints.
 - Task 3: Integrate translation memory system, enabling import and retrieval of translations.

6. Development Environment

- Tools and Technologies:
 - Front-end: vite -react
 - Back-end: Django - mysql

7. Risks and Mitigation Strategies

- Risk 1: Potential delays in external API integration for translation memory.
 - Mitigation Strategy: Identify alternative translation memory systems and establish a backup plan.
- Risk 2: Technical challenges in implementing user authentication and security.
 - Mitigation Strategy: Conduct thorough research and utilize well-established authentication libraries and practices.

8. Testing Approach

- Testing Strategy: Conduct unit testing for each module/component and integration testing for end-to-end functionality. Use test automation tools where applicable.
- Test Cases: Develop test cases for user registration, project creation, and translation memory integration.

9. Deliverables

- Sprint Deliverables: By the end of Sprint 1, the following deliverables are expected:
 - User registration and authentication feature implemented and tested.
 - Project creation functionality developed and verified.
 - Translation memory integration module integrated and tested.
- Acceptance Criteria: Successful completion of each user story and passing of corresponding test cases.

10. Conclusion

- Summary: This document provides an overview of the software development plan for Sprint 1 of the CAT Tool project.