

User Acceptance Testing (UAT) Template

Date	27 June 2025
Team ID	LTVIP2025TMID29152
Project Name	SmartSDLC – AI-Enhanced Software Development Lifecycle
Maximum Marks	

Project Overview :

- **Project Name:** SmartSDLC
- **Project Description:** A Generative AI-based platform for automating key SDLC tasks such as requirement classification, code generation, test case generation, bug fixing, code summarization, and AI assistant support, integrated with IBM Watsonx.
- **Project Version:** v1.0
- **Testing Period:** 27 June 2025 to 28 June 2025

✓ Testing Scope :

Features and Functionalities to be Tested:

- PDF Upload and Classification
- AI Code Generator (multi-language)
- AI-based Test Case Generator
- Bug Fixer (auto-correction of code)
- Code Summarizer
- Chat Assistant (Prompt-based query resolver)
- User Login and Authentication

User Stories / Requirements to be Tested:

- US-01: As a user, I can upload SDLC documents and get classified output
- US-02: As a user, I can generate code based on a functional requirement
- US-03: As a user, I can get test cases for a given code snippet
- US-04: As a user, I can fix buggy code using the AI bug fixer
- US-05: As a user, I can summarize code blocks to understand logic quickly

- US-06: As a user, I can interact with the chatbot for development queries
- US-07: As a user, I can log in and securely access SmartSDLC features

Testing Environment :

- **URL/Location:** <http://localhost:8501>
- **Credentials**

Username: Vanaja

Password: *****

Test Cases :

Test Case ID	Test Scenario	Test Steps	Expected Result	Actual Result	Pass/Fail
TC-001	Upload PDF and classify content	Step 1: Login Step 2: Upload valid PDF Step 3: Click classify	Output should show classification by SDLC phase	Classification displayed correctly	Pass
TC-002	Generate code from functional input	Step 1: Open Code Generator Step 2: Input task Step 3: Click generate	Code should be generated in correct language	Python/Java code generated correctly	Pass
TC-003	Generate test cases	Step 1: Open Test Generator Step 2: Paste code Step 3: Click generate	Test cases should be relevant and valid	Unit tests generated as expected	Pass
TC-004	Fix buggy code	Step 1: Open Bug Fixer Step 2: Paste buggy code Step 3: Click fix	Errors should be removed and logic retained	Bug fixed successfully	Pass
TC-005	Summarize code	Step 1: Open Code Summarizer Step 2: Paste code Step 3: Click	Summary should reflect logic clearly	Accurate summary provided	Pass

		summarize			
TC-006	AI Chat Assistant support	Step 1: Open Chat Assistant Step 2: Ask prompt	Response should be relevant and intelligent	Answers generated properly	Pass
TC-007	User Login and Security	Step 1: Enter valid credentials Step 2: Submit	User should be redirected to dashboard	Logged in and redirected correctly	Pass

Bug Tracking :

Bug ID	Bug Description	Steps to Reproduce	Severity	Status	Additional Feedback
BG-001	UI alignment issue on mobile devices	Step 1: Open on small screen Step 2: View PDF upload	Medium	In Progress	Needs responsive CSS fixes
BG-002	PDF classification fails for scanned PDF	Step 1: Upload scanned PDF Step 2: Click classify	High	Open	Consider OCR for image-based PDFs
BG-003	Forgot password button styling broken	Step 1: Go to login Step 2: Click "Forgot Password"	Low	Closed	Minor UI fix already applied

Sign-off :

- ✓ **Tester Name:** Vanaja Pulapa
- ✓ **Date of Test Completion:** 28 June 2025
- ✓ **Signature:** *Vanaja Pulapa*

✓ Notes:

- ✧ All features tested with both valid and invalid inputs
- ✧ Responsive layout checked on desktop and mobile
- ✧ Bugs logged and will be addressed before final deployment