Acceptance Test Plan

Production Optimiser

Politecnico di Milano, Information Engineering School, Italy
University of Zagreb, Faculty of Electrical Engineering and Computing, Croatia
Distributed Software Development

27th of December 2024

Overview

This document outlines the plan for acceptance testing to determine and verify which requirements are met. Features and components functionalities are tested with unit/integration tests through code so the primary use of acceptance testing is to involve the customer and manually ensure his requirements are fulfilled.

Acceptance testing will also provide an opportunity to gather final feedback on the frontend part of the application, allowing last minute refinements to be made based on the customer's preferences.

Each test is structured in given format:

Requirement ID(s)	[FR1, FR2, NFR4]
Test ID	AT1
Test Name	User needs platform access
Test description	Unregistered users don't have accounts and want to use the platform. They can request access with contact form.
Test steps	1. User visit registration request page 2. Fills email and company details 3. Submits access request 4. ….
Pass/Fail criteria	User successfully created registration request that admin can see and approve/deny.

Acceptance Test Cases

[AT1] User login, logout, account changes

Requirement ID(s)	[FR1, FR2, FR4, NFR1, NFR2]
Test ID	AT1
Test Name	User login, logout, account changes
Test description	Existing user performs actions with his credentials. Login, logout, and account modifications like email/password change or account deletion.
Test steps	1. User accesses platform for the first time (account already created) 2. Inputs email + password and logs in 3. Preforms credential change 4. User logs out 5. Preforms login with new credentials 6. User doesn't want to use the platform anymore and preforms account deletion
Pass/Fail criteria	Test is passing if all steps are performed without errors and after account deletion user can no longer log in. All sensitive data should be encoded in the database.

[AT2] User session is kept across tabs

Requirement ID(s)	[FR1, FR4]
Test ID	AT2
Test Name	User session is kept across tabs
Test description	User accesses the platform from another tab while already logged in, session is kept if timeout is not met
Test steps	1. User logs into the platform 2. Opens the new tab and accesses the platform 3. Immediately logs in with existing session
Pass/Fail criteria	Test is passing if user doesn't need to input credentials in the new tab, if specific timeout is met(24h) the session if invalidated and he will need to input credentials again.

[AT3] New user wants to join the platform

Requirement ID(s)	[FR2, FR3]
Test ID	AT3
Test Name	New user wants to join the platform
Test description	New user requests access to the platform and when accepted can login.
Test steps	1. User fills contact form for account creation 2. Admin accepts the user and sets initial password 3. User gets the email and logs into the platform
Pass/Fail criteria	Test is passing if admin successfully approves the request, user gets sent an email and user can log in.

[AT4] Admin sees existing tools and has ability to modify them

Requirement ID(s)	[FR5, FR6]
Test ID	AT4
Test Name	Admin sees existing tools and has ability to modify them
Test description	Admin can see all existing tools, has ability to change their name and service URL.
Test steps	1. Admin logs in 2. Goes to Service Tool Management tab 3. Edits some info for some existing service
Pass/Fail criteria	Test is passing if admin successfully sees all tools and can modify them.

[AT5] Admin can give/revoke access to specific tool to each user

Requirement ID(s)	[FR7, FR8]
Test ID	AT5
Test Name	Admin can give access to specific tool to each user
Test description	Admin can check which tools user has access to, and can modify that list
Test steps	1. Admin logs in 2. Goes to Tool Assignment 3. Inputs specific user email 4. Modifies permissions to tools
Pass/Fail criteria	Test is passing if admin successfully sees all models assigned to a user and can modify that list, give access to new models and revoke access to existing ones. User can call specific tool only if access is granted to him else he gets unauthorized error

[AT6] Uploading files and text to service tools

Requirement ID(s)	[FR9, FR8]
Test ID	AT6
Test Name	Uploading files and text to service tools
Test description	Both users and admins can call specific service tools with shown input, either image, file or text
Test steps	1. User selects the tool in top left of the screen 2. Starts new call with selected tool 3. Provides required input to the tool
Pass/Fail criteria	Test is passing if service tool is correctly called without any validation errors. Prompt will give users information about which file extensions are supported for specific tool.

[AT7] User sees his historical data

Requirement ID(s)	[FR12]
Test ID	AT7
Test Name	User sees his historical data
Test description	User can see all his past calls in the left sidebar
Test steps	1. User can see his history of calls 2. User can click on specific one to check inputs and outputs
Pass/Fail criteria	Test is passing if user can successfully retrieve his historical data and sees each specific one

[AT8] User successfully calls service tool and sees the response

Requirement ID(s)	[FR9, FR10, FR11]
Test ID	AT8
Test Name	User successfully calls service tool and sees the response
Test description	User can call the tool with given input, and receive its output on the platform
Test steps	1. User selects service tool 2. Provides input that passes validation 3. Calls the service and receives the response in raw and formatted
Pass/Fail criteria	Test is passing if user can successfully call the service, then see the provided input, be able to download it and see the output

[AT9] Admins can see tool and user statistics

Requirement ID(s)	[FR13, FR14]
Test ID	AT9
Test Name	Admins can see tool and user statistics
Test description	Admins see stats for each tool and see stats for each user
Test steps	1. Admins goes to statistics tab 2. Sees dashboard with graphs 3. Can click specific info for tool or for user and receive more data
Pass/Fail criteria	Test is passing if admin can successfully retrieve info about usage statistics of models and users

[AT10] Multiple request handling for one tool

Requirement ID(s)	[FR9, NFR5, NFR6, NFR8]
Test ID	AT10
Test Name	Multiple request handling for one tool
Test description	Multiple users can access the tools at the same time and when deployed each tool is easily scalable
Test steps	1. 2 separate users log in in 2 separate browsers 2. Call the same tool at the same time 3. Both requests should pass without any significant delays
Pass/Fail criteria	Test is passing if both calls pass without any added delays compared to single request