

1. Introduction

This test plan defines the strategy, scope, objectives, risks, and detailed test cases for Sprint 3 of the Polish AI Résumé Builder project. Sprint 3 focuses on completing Azure service integrations, LLM service integration, Editor backend and frontend stabilization, authentication finalization, dashboard cleanup, and cross-team Azure setup.

1.1 Objectives

Sprint 3 aims to validate the following:

- Fully functional Upload Service to Azure.
- Successful Team Azure Account Setup & shared environment configuration.
- LLM Service integration for suggestion generation.
- Completed Editor Page Backend and Frontend connection.
- Completed Authentication and Sign Up flow.
- Dashboard cleanup and UI corrections.

2. Scope

This test plan covers the new functionality delivered during Sprint 3, plus regression for Sprint 1 and Sprint 2 items affected by new Azure and LLM integrations.

Included in scope:

- Upload service API and UI triggers
- Azure storage, identity, and API routing verification
- LLM request/response flows inside the editorial workflow
- Editor Page full-stack behavior (backend + frontend alignment)
- Authentication/Sign Up flow completion
- Dashboard cleanup items that affect user flows

3. Sprint 3 Risks

1. Azure misconfiguration impacting storage or compute endpoints.
2. LLM service rate limits, token errors, or inconsistent responses.

3. Editor backend–frontend mismatch causing save or load failures.
4. Authentication regressions after flow refactor.
5. Dashboard cleanup possibly breaking navigation or layouts.

4. Test Approach

Testing includes unit, integration, API, and E2E using Playwright. Manual exploratory testing focuses on LLM behavior, editor interactions, and Azure upload edge cases. Regression testing covers prior authentication and Editorial page features.

5. Test Cases

5.1 Azure Upload Service

TC-AZU-001 — Upload valid file → Stored successfully in Azure Storage.

TC-AZU-002 — Upload invalid file → Validation error.

TC-AZU-003 — Network loss during upload → Retry prompt; no corruption.

5.2 LLM Service

TC-LLM-001 — Request suggestions → Returns valid improvement text.

TC-LLM-002 — LLM timeout → Graceful error message.

TC-LLM-003 — LLM malformed response → Fallback handling works.

5.3 Editor Page (Backend + Frontend)

TC-EDT-001 — Load resume → Data retrieved from backend.

TC-EDT-002 — Edit line → Auto-saves.

TC-EDT-003 — Apply AI suggestion → Displays and persists.

TC-EDT-004 — Refresh browser → Restores latest saved state.

5.4 Authentication

TC-AUTH-001 — Sign Up (new flow) works.

TC-AUTH-002 — Authentication persists session.

TC-AUTH-003 — Invalid login rejected.

5.5 Dashboard Cleanup

TC-DB-001 — Navigation links correct.

TC-DB-002 — No broken UI elements.

6. Environments

QA, Dev, and Staging with Azure Resource Group per environment. LLM staging endpoint used for load and error simulations.

7. Schedule

Test Planning: Dec 1–Dec 2

Functional Testing: Dec 2–Dec 8

Integration Testing: Dec 8–Dec 10

Regression Testing: Dec 10–Dec 11

Final Fix Verification: Dec 11–Dec 12

Sprint 3 Demo: Dec 13

Trace Directions

Test Case ID	Area	Description	Requirements Trace	Directions	Expected Output	Priority	Status
TC-AUTH-001	Authentication	Sign up with valid credentials	AUTH-001	Open app → Auth page → Fill valid email/password → Create account.	User account created; redirected to Editorial page; session cookie/token set.	High	Pass
TC-AUTH-002	Authentication	Sign in existing user	AUTH-002	Open app → Auth page → Enter valid credentials → Sign in.	Redirect to Editorial; session active; user name visible.	High	Pass
TC-AUTH-003	Authentication	Reject invalid password policy	AUTH-003	Attempt sign up with weak password.	Inline validation shows policy error;	Medium	Pass

					account not created.		
TC-AUTH-004	Authentication	Sign out clears session	AUTH-004	From Editorial, choose Sign out.	Returned to Auth page; accessing Editorial requires re-auth.	High	Fail
TC-AUTH-005	Authentication	Session expiry/refresh	AUTH-005	After token expiry simulate API call.	Silent refresh works or user is prompted to sign in again.	Medium	Pass
TC-EDIT-001	Editorial	Create new résumé	EDIT-001	From Editorial, click New → enter headline and first section.	Draft created with untitled name; auto-save enabled.	High	Pass
TC-EDIT-002	Editorial	Edit and save content	EDIT-002	Modify a line; pause 1–2s.	Auto-save to Azure backend; save indicator confirms.	High	Pass
TC-EDIT-003	Editorial	Reload restores content	EDIT-003	Hard refresh browser.	All content restored from backend; caret position reasonable.	High	Pass
TC-EDIT-004	Editorial	Undo/redo editing	EDIT-004	Make changes then undo/redo.	Edits revert/restores without data loss.	Medium	Pass
TC-EDIT-005	Editorial	Unauthorized access blocked	SEC-002	Open /editorial route while signed out.	Redirected to Auth; 401/403 on protected APIs.	High	Pass

TC-CHA-T-001	Inline Chat	Request suggestions for a line	CHAT-001	Select a résumé line → Click 'Ask AI'.	Chat panel opens with suggestions contextual to selected line.	High	Pass
TC-CHA-T-002	Inline Chat	Apply suggestion	CHAT-002	Click 'Apply'.	Line text updates; change is auto-saved.	High	Fail
TC-CHA-T-003	Inline Chat	Rate/undo suggestion	CHAT-003	Rate suggestion or undo.	Feedback recorded; content reverts if undone.	Medium	Pass
TC-CHA-T-004	Inline Chat	Error/timeout handling	CHAT-004	Simulate API error or slow response.	Non-blocking error; retry option; editor remains usable.	High	Pass
TC-CHA-T-005	Inline Chat	Quota exceeded scenario	CHAT-005	Simulate quota cap.	Graceful degradation message; prevents repeated calls within cooldown.	Medium	Fail
TC-AZ-001	Azure Backend	Create/read/update résumé via API	AZ-CRUD-001	Use app to create and edit; observe network.	200 responses; persisted data consistent with UI.	High	Pass
TC-AZ-002	Azure Backend	Handle network loss	AZ-RES-002	Toggle offline mid-edit.	Changes queued; user warned; sync resumes on reconnect.	High	Pass
TC-AZ-	Azure Backend	Authorization on APIs	SEC-API-003	Call APIs without	401/403; no data	High	Pass

003				token.	leaked.		
TC-AZ-004	Azure Backend	Data model validation	AZ-VAL-004	Post malformed payload via API test client.	400 with clear validation errors; no server crash.	Medium	Pass
TC-AZ-005	Azure Backend	Basic performance smoke	PERF-005	Measure p95 for save and chat relay.	p95 save < 800ms; chat relay < 2.5s (targets).	Medium	Pass