

# Test Plan and Report - SummarAIze

**Product Name:** SummarAIze

**Team Name:** PAKAN

**Date:** June 1st, 2025

## Sprint 1 User Stories:

- {1} User story 1.1 [8]
  - **As a student, I need to upload a research paper PDF through an accessible website and get an accurate summary of the paper so I can understand the main points without reading the entire paper.**
  - Scenario 1: Upload and Summarize Paper (Pass/Fail)
    - Open website. select “Upload PDF.”
    - Choose file: test\_paper.pdf
    - Click the button to generate a summary.
  - Output: summary section containing the key points from the paper.
- {2} User story 1.2 [5]
  - **As a user, I want to indicate that I have no background knowledge on the research topic and receive a detailed literature review so that I can learn more about the subject.**
  - Scenario 1: Request Detailed Literature Review (Pass/Fail)
    - Upload test\_paper.pdf
    - Select beginner, intermediate, advanced.
    - Click the button to generate a summary.
  - Output: detailed summary tailored to the user’s background level which they selected. The length should match this.

## Sprint 2 User Stories:

- {3} User story 2.1 [13]
  - **As an educator, I want to be able to create a visual representation so that I can make presentations so that complex concepts are simplified for students.**
  - Scenario 3: Generate Visual Representation (Pass/Fail)
    - Upload test\_paper.pdf
  - Output: Playable video of visuals on paper is displayed in frontend.
- {4} User story 2.2 [8]
  - **As a student, I need to be able to play the narrated voiceover so that I can simultaneously absorb information while completing other tasks at hand.**
  - Scenario 4: Play the voiceover
    - Click the upload button.
    - User should see the option to click the narration play button.
  - Output: Should be able to the audio and check that it matches the content, and that they can still listen to the audio even if they navigated away from the page.
- {5} User story 2.3 [3]
  - **As a student, I should have a user account that stores my information so that I can track my progress.**
  - Scenario 5: Create and Access User Account (Pass/Fail)
    - Open app; click “Sign Up”
    - Input: name = Jamie Smith, email = jamie@example.com, password = Secure123!
    - Login using same credentials

- Navigate to Library Page
- Output: Account is created; login succeeds; previous summaries are saved.
- {6} User Story 2.4 [3]
  - **As a student, I want to choose the summary length (short, medium, detailed) so that I get the right level of depth for my needs.**
  - Scenario 6: Choose Summary Length (Pass/Fail)
    - Upload <test\_paper.pdf>
    - Select summary length: “Short”
    - System generates concise summary (1–2 paragraphs)
    - Repeat for “Medium” and “Detailed”
  - Output: Each mode produces appropriately sized output.

### Sprint 3 User Stories:

- {7} User story 3.1 [13]
  - **As a user, I want to get suggestions for related research papers so that I can explore the topic further.**
  - Scenario 7: Recommend Related Research (Pass/Fail)
    - Upload test\_paper.pdf
    - Scroll down to the bottom to see recommended research papers.
  - Output: list of 3–5 papers with title and links. Results are topically aligned with uploaded paper.
- {8} User story 3.2 [5]
  - **As a researcher, I want to see citations from the original paper in the summary so that I can refer back to the sources accurately.**
  - Scenario 8: Include Citations in Summary (Pass/Fail)
    - Upload test\_paper.pdf.
    - Click the button to see the generated summary.
    - Summary output includes inline references and citation blocks.
  - Output: Citations match those from source PDF (e.g., [1], [2]).
- {9} User story 3.3 [5]
  - **As a user, I want to ask questions about the paper so that I can clear up any confusion and refine the summary.**
  - Scenario 9: Ask Clarifying Questions (Pass/Fail)
    - Upload test\_paper.pdf
    - Ask the chatbot the question: “What was the main finding?”
    - System responds with answers based on content.
  - Output: Chatbot answers correctly references the paper's conclusion or results.

### Sprint 4 User Stories:

- {10} User story 4.1 [13]
  - **As a user, I want to generate a presentation for the contents of the research paper so that I can use it to communicate the information to others effectively.**
  - Scenario 10: Generate Presentation (Pass/Fail)
    - Upload test\_paper.pdf
    - System outputs .pptx of slides.
  - Output: Slides align with paper structure, including text and visuals.
- {11} User story 4.2 [13]
  - **As a student, I need to download videos I previously generated so that I can reference them later.**
  - Scenario 11: Download Generated Video (Pass/Fail)
    - Login as returning user.

- Go to the Library Page.
- Click download on new video.
- Output: Video downloads successfully, plays with summary content and narration.