**Test Plan and Report - SummarAIze**

**Product Name:** SummarAIze

**Team Name:** PAKAN

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**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 listen 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.