**AI-Summarizer (EchoAI)**

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**1. Audio/Video/Transcript to Summarized Text**

**Test Case 1: Uploading an Audio File**

* **Steps:**
  1. Log in as a user.
  2. Upload an audio file (.mp3, .wav, .m4a).
  3. Wait for processing.
  4. Check if the system generates a summary.
* **Expected Output:**
  1. System processes the audio file.
  2. Summary is generated accurately.
  3. No errors or incorrect formats.

**Test Case 2: Uploading a Video File**

* **Steps:**
  1. Upload a video file (.mp4, .avi).
  2. System extracts audio and generates a summary.
  3. Verify accuracy.
* **Expected Output:**
  1. System extracts audio correctly.
  2. Summary is generated and displayed.

**Test Case 3: Uploading a Transcript File**

* **Steps:**
  1. Upload a transcript (.txt, .srt, .pdf).
  2. System processes and summarizes the text.
  3. Verify the summary.
* **Expected Output:**
  1. Summary is generated properly.

**Test Case 4: Uploading an Unsupported File Type**

* **Steps:**
  1. Try uploading an Excel (.xls), PowerPoint (.ppt), or Image (.jpg).
* **Expected Output:**
  1. System rejects the file and displays an error message:  
     **"Invalid file format. Please upload an audio, video, or text file."**

**Test Case 5: Handling Long-Duration Files**

* **Steps:**
  1. Upload a 2-hour video/audio file.
  2. Wait for summary generation.
* **Expected Output:**
  1. System does not crash.
  2. Summary is generated within an acceptable time frame.

**2. Storing PDFs in User Accounts**

**Test Case 6: Saving Summary as PDF**

* **Steps:**
  1. Generate a summary.
  2. Click the "Save as PDF" button.
  3. Verify that the PDF is stored in the user’s account.
* **Expected Output:**
  1. PDF is saved in the user's account.
  2. File name follows a structured format (e.g., Summary\_2025-04-02.pdf).

**Test Case 7: Attempting to Save Without Generating a Summary**

* **Steps:**
  1. Click "Save as PDF" without generating a summary.
* **Expected Output:**
  1. System prevents saving and shows an error:  
     **"No summary available to save."**

**Test Case 8: Downloading a Saved PDF**

* **Steps:**
  1. Go to the user's profile.
  2. Click "Download" on a saved summary.
* **Expected Output:**
  1. PDF downloads correctly.

**3. User Profile Management**

**Test Case 9: Creating an Account**

* **Steps:**
  1. Open the signup page.
  2. Enter name, email, password.
  3. Click "Sign Up."
* **Expected Output:**
  1. Account is created.
  2. User is redirected to the dashboard.

**Test Case 10: Logging In**

* **Steps:**
  1. Enter email and password.
  2. Click "Log In."
* **Expected Output:**
  1. User is authenticated and redirected to their profile.

**Test Case 11: Incorrect Login Details**

* **Steps:**
  1. Enter incorrect email or password.
* **Expected Output:**
  1. System displays an error:  
     **"Invalid credentials."**

**Test Case 12: Viewing Saved Summaries in Profile**

* **Steps:**
  1. Go to the "My Summaries" section.
  2. Verify that previous summaries are listed.
* **Expected Output:**
  1. Summaries are displayed correctly.

**Test Case 13: Deleting a Saved Summary**

* **Steps:**
  1. Click "Delete" on a saved summary.
  2. Confirm deletion.
* **Expected Output:**
  1. Summary is removed from the user’s account.

**4. System Performance & Edge Cases**

**Test Case 14: Handling Multiple Users Simultaneously**

* **Steps:**
  1. Have multiple users upload files at the same time.
  2. Monitor system performance.
* **Expected Output:**
  1. No system crashes.

**Test Case 15: Network Failure During Upload**

* **Steps:**
  1. Start uploading a file.
  2. Disconnect from the internet.
  3. Reconnect.
* **Expected Output:**
  1. System resumes or provides an error message.

**Test Case 16: Handling Large PDFs**

* **Steps:**
  1. Try to generate a PDF from a very long summary.
* **Expected Output:**
  1. PDF is created without errors.