Adverse Medical Event Prediction System

Test Cases

1. Environment Setup Check

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| **Test Case** | **Expected Result** |
| App runs with python app.py | Flask starts on localhost:5000 without errors |
| Required folders exist (uploads/, reports/) | Automatically created or present |
| Models load successfully | No errors on app startup |

1. Audio Upload and Transcription

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| **Test Case** | **Input** | **Expected Output** |
| Upload valid .wav or .mp3 file | hello.wav | Transcribed text appears in <pre> block |
| Upload empty file | Blank file | Error message or flash alert |
| Upload unsupported file (e.g., .txt) | file.txt | Should return 400 error or file-type alert |
| No file selected and submit | - | Should show "No file selected" error |

1. Text Input and Symptom Prediction

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| **Test Case** | **Input** | **Expected Output** |
| Enter meaningful symptoms | "Fever and cough for 2 days" | Displays predicted label like "Flu" |
| Empty input | - | Should show "No text input" |
| Input gibberish | "asdfgh" | Should still return a prediction (check robustness) |
| Use transcribed text directly | From audio | Should process and predict correctly |

1. Report Generation

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| **Test Case** | **Input** | **Expected Result** |
| After analysis | Valid text | PDF is generated and stored in /reports/ |
| PDF filename is unique | Repeated usage | Files should not overwrite |
| Download report | Click on download link | File downloads correctly |
| Access non-existent file | /download/fake.pdf | Returns 404 JSON error |