

Project Report

Title of Project:

Comprehensive PDF & Image Manipulation Suite

Name of the Innovator:

Sania Ansari

Start Date:

11/02/2026

End Date:

18/02/2026

Day 1: Empathise & Define

Step 1: Understanding the Need

Which problem am I trying to solve?

Currently, users face tool fragmentation when managing digital documents. Simple tasks like merging PDFs, compressing images, or file conversion often require visiting multiple, disconnected websites or installing heavy, expensive software (e.g., Adobe Acrobat). This results in a disjointed workflow and productivity loss.

Who is affected by this problem?

The primary groups affected are Students facing submission portals limits, Job Aspirants struggling with strict upload guidelines, and Professionals needing quick, software-free document processing.

How did I find out about this?

Interviews, Observation, AI Tools, Online Research

Step 2: Problem Statement

"Currently, users face a fragmented workflow when managing digital documents. To perform basic operations like merging PDFs, compressing images, or converting formats, they are forced to navigate multiple disconnected websites or install expensive, heavy software. Furthermore, existing free solutions often degrade user experience with intrusive ads, privacy risks, and slow processing, creating a need for a unified, lightweight, and efficient document manipulation suite."

Why is this problem important to solve?

"Currently, users face a fragmented workflow when managing digital documents. To perform basic operations like merging PDFs, compressing images, or converting formats, they are forced to navigate multiple disconnected websites or install expensive, heavy software. Furthermore, existing free solutions often degrade user experience with intrusive ads, privacy risks, and slow processing, creating a need for a unified, lightweight, and efficient document manipulation suite."

Take-home task insights:

"Currently, users face a fragmented workflow when managing digital documents. To perform basic operations like merging PDFs, compressing images, or converting formats, they are forced to navigate multiple disconnected websites or install expensive, heavy software. Furthermore, existing free solutions often degrade user experience with intrusive ads, privacy risks, and slow processing, creating a need for a unified, lightweight, and efficient document manipulation suite."

Day 2: Ideate

Step 3: List at least 5 different solutions:

1. "Currently, users face a fragmented workflow when managing digital documents. To perform basic operations like merging PDFs, compressing images, or converting formats, they are forced to navigate multiple disconnected websites or install expensive, heavy software. Furthermore, existing free solutions often degrade user experience with intrusive ads, privacy risks, and slow processing, creating a need for a unified, lightweight, and efficient document manipulation suite."

2. "Currently, users face a fragmented workflow when managing digital documents. To perform basic operations like merging PDFs, compressing images, or converting formats, they are forced to navigate multiple disconnected websites or install expensive, heavy software. Furthermore, existing free solutions often degrade user experience with intrusive ads, privacy risks, and slow processing, creating a need for a unified, lightweight, and efficient document manipulation suite."

3. "Currently, users face a fragmented workflow when managing digital documents. To perform basic operations like merging PDFs, compressing images, or converting formats, they are forced to navigate multiple disconnected websites or install expensive, heavy software. Furthermore, existing free solutions often degrade user experience with intrusive ads, privacy risks, and slow processing, creating a need for a unified, lightweight, and efficient document manipulation suite."

4. "Currently, users face a fragmented workflow when managing digital documents. To perform basic operations like merging PDFs, compressing images, or converting formats, they are forced to navigate multiple disconnected websites or install expensive, heavy software. Furthermore, existing free solutions often degrade user experience with intrusive ads, privacy risks, and slow processing, creating a need for a unified, lightweight, and efficient document manipulation suite."

Step 4: My favourite solution:

"Currently, users face a fragmented workflow when managing digital documents. To perform basic operations like merging PDFs, compressing images, or converting formats, they are forced to navigate multiple disconnected websites or install expensive, heavy software. Furthermore, existing free solutions often degrade user experience with intrusive ads, privacy risks, and slow processing, creating a need for a unified, lightweight, and efficient document manipulation suite."

Step 5: Why am I choosing this solution?

"Currently, users face a fragmented workflow when managing digital documents. To perform basic operations like merging PDFs, compressing images, or converting formats, they are forced to navigate multiple disconnected websites or install expensive, heavy software. Furthermore, existing free solutions often degrade user experience with intrusive ads, privacy risks, and slow processing, creating a need for a unified, lightweight, and efficient document manipulation suite."

Day 3: Prototype & Test

Step 6: What will my solution look like?

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What AI tools will I need?

"It demonstrates the practical application of File Handling logic and MIME-type manipulation within a web environment, bridging the gap between raw backend logic and frontend usability."

Selected AI tools:

1. "It demonstrates the practical application of File Handling logic and MIME-type manipulation within a web environment, bridging the gap between raw backend logic and frontend usability."

2. "It demonstrates the practical application of File Handling logic and MIME-type manipulation within a web environment, bridging the gap between raw backend logic and frontend usability."
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5. "It demonstrates the practical application of File Handling logic and MIME-type manipulation within a web environment, bridging the gap between raw backend logic and frontend usability."

Step 7: Test - Getting Feedback

Who did I share my solution with?

"It demonstrates the practical application of File Handling logic and MIME-type manipulation within a web environment, bridging the gap between raw backend logic and frontend usability."

What works well:

"It demonstrates the practical application of File Handling logic and MIME-type manipulation within a web environment, bridging the gap between raw backend logic and frontend usability."

What needs improvement:

"It demonstrates the practical application of File Handling logic and MIME-type manipulation within a web environment, bridging the gap between raw backend logic and frontend usability."

Day 4: Showcase

Step 8: Final Project Title:

"It demonstrates the practical application of File Handling logic and MIME-type manipulation within a web environment, bridging the gap between raw backend logic and frontend usability."

1-Minute Pitch Summary:

"It demonstrates the practical application of File Handling logic and MIME-type manipulation within a web environment, bridging the gap between raw backend logic and frontend usability."

Step 9: Reflections

What did I enjoy the most?

"It demonstrates the practical application of File Handling logic and MIME-type manipulation within a web environment, bridging the gap between raw backend logic and frontend usability."

What was my biggest challenge?

"It demonstrates the practical application of File Handling logic and MIME-type manipulation within a web environment, bridging the gap between raw backend logic and frontend usability."

Project Link:

<https://preview--pixelpdf-lab.lovable.app/>