

ONLINE PDF CONVERTER

INTERDISCIPLINARY PROJECT

Submitted in partial fulfillment of the requirements for the award of
Bachelor of Technology in Information Technology

by

NSV KAMESH (41120131)



DEPARTMENT OF INFORMATION TECHNOLOGY

SCHOOL OF COMPUTING

SATHYABAMA

**INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)**

CATEGORY-1 UNIVERSITY BY UGC

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BONAFIDE CERTIFICATE

This is to certify that this Project Report is the Bonafide work of NSV KAMESH
(Reg. No: 41120131) who carried out the project entitled "ONLINE PDF
CONVERTER" under my supervision from January 2024 to May 2024.

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Submitted for Viva voce Examination held on 8-5-24

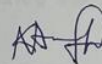
Internal Examiner
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DECLARATION

I, NSV KAMESH hereby declare that the project entitled **ONLINE PDF CONVERTER** completed by me under the guidance of **Ms. P. Shamili, MTech.**, is submitted in partial fulfilment of the requirements for the award of Bachelor in Technology Degree in Information Technology.

DATE: 8-5-24

PLACE: Chennai



SIGNATURE OF CANDIDATE

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ABSTRACT

The objective of this project is to develop a web-based image to PDF converter that allows users to convert their image files into customized PDF documents. The converter should be easy to use and offer a variety of features, such as image sorting, paper format selection, and margin setting. Existing image to PDF converters typically lacks robust sorting capabilities, forcing users to convert images in the default order. This limitation can be frustrating, especially when users need precise control over the arrangement of images in the PDF document. The proposed image to PDF converter is a web-based application that uses the following technologies: HTML, CSS, and JavaScript for the user interface js PDF for the converter works by first allowing the user to select the image files to convert. The user can then sort the image files in the desired order using a drag-and-drop interface. Once the images are sorted, the user can select the paper format and margins for the output PDF. Finally, the user clicks the "Convert to PDF" button to generate the PDF document. The proposed image to PDF converter is a user-friendly and powerful tool that allows users to convert their image files into customized PDF documents. The converter offers a variety of features, such as image sorting, paper format selection, and margin setting.

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LIST OF ABBREVIATIONS

HTML	-	Hyper Text Markup Language
CSS	-	Cascading Style Sheets
JS	-	JavaScript
PDF	-	Portable Document Format
API	-	Application Programming Interface
DOM	-	Document Object Model
JPEG	-	Joint Photographic Experts Group
URI	-	Uniform Resource Identifier
URL	-	Uniform Resource Locator
CSV	-	Comma-Separated Values
UTF-8	-	Unicode Transformation Format-8
HTTP	-	Hypertext Transfer Protocol
HTTPS	-	Hypertext Transfer Protocol Secure
XHR	-	XML http request
XML	-	Extensible Markup Language

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CHAPTER 1

INTRODUCTION

The "Online PDF Converter" project is designed to overcome the limitations given by the present existing online converters. The main motive of the project is to provide a simple user-friendly interface that is useful for conversion and users can get their output. There exist many Online Pdf Converters like smallPDF.com, Soda PDF, ilovePDF.com. Etc. In this overview, we'll explore their limitations and discuss how this project can be great asset for the evolving global trends. Through, interactive maps, charts, and graphs, we can gain a geographical perspective on working of this project. Performing an Online PDF Converter project using Frontend and other libraries involves several steps. Here are the key steps:

1.1 OVERVIEW

The online PDF converter is a web-based tool designed to facilitate the seamless conversion of various file formats into PDF documents and vice versa. It offers users the flexibility to convert images, text documents, presentations, and other digital content into PDFs, providing a convenient solution for document management and sharing.

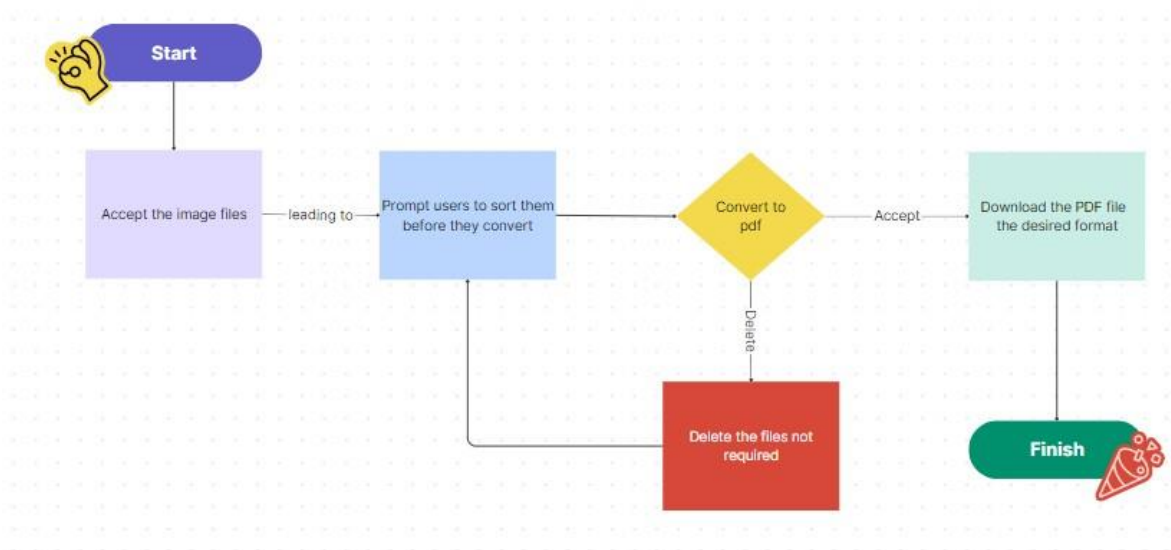


Fig 1.1: Diagram Overview

- *Upload Images:* When user enters the webpage, he is asked to choose his desired files to convert. These files can be of any image format (eg.png, .jpg, .jpeg). The users then add them to the page, where they can see a huge thumbnail preview of their uploaded image as shown in the figure 1.1.

1.2 IMAGE PREPROCESSING

- *Arrangement:* Clearly after seeing their filename, users are given with the option to choose between arrangements of order of images, which is being done by ML Algorithms in many of the converters, resulting in user dissatisfaction of choosing his desired output.
- *Paper Format:* The uploaded and sorted images are now ready to get converted into pdf. In the meanwhile, user can select the printable format, that is A3. Portrait, A4 landscape, and A3 formats, which are most frequently used documentation formats in the real time society.
- *File Name:* In most of the existing converters, they provide user with a default converted filename, which has to be later changed by user. But, by this project, user can give the filename before conversion, and can get the same name for his PDF, which results in low confusion between the PDF he employs.
- *Using of JavaScript:* Choosing appropriate JavaScript libraries or tools (JSPDF) based on analysis goals. In this Online PDF Converter project we have used the PDF, image formats like portrait land scape customization tools.
- *Plan the margins:* Deciding on the types of margin scales, user create to get the printable PDF effectively. Commonly used online PDF converters do not provide this ability of giving out margin size to the user.
- *Analyzing before conversion:* After selecting the images and customizing them. We can proceed to convert them to PDF. Here, users can select files to be deleted if they have any of such files in the web page. The website prompts the user if he wants to download multiple files at a time, and users are free to choose that time to accept or ignore the request.

- *Download PDF:* Documents your uploaded image files and merge them as a single PDF as per the user's request. Creating a beautifully sorted PDF's and the file size is decided by the number of images merged. Communicating with the results effectively to the intended audience.
- *Continuous Improvement:* Iterate and refine our analysis and keep on improving on the features. currently, this project provides image to PDF conversion only at client side, without the use of any external server.

By using the PDF conversion that is a powerful tool for simplifying large number of image files and conveying them to PDF. It's important to maintain data security, choose the right security techniques, and interpret the user's accurately to derive meaningful conclusions from the Online PDF converter project.

CHAPTER 2

METHODOLOGY

2.1 SURVEY

A literature survey on existing image-to-PDF converters and online PDF converters would typically involve reviewing academic papers, articles, blog posts, and user reviews to gain insights into the current state of these tools.

The key details from the survey are given below:

Online PDF Converter Types:

- Online image-to-PDF converters that convert various image formats (JPEG, PNG etc.) to PDF.
- Online tools that offer comprehensive PDF-related functions, including image-to-PDF conversion.
- PDF conversion features integrated into document management systems or cloud storage platforms.

Key Features:

- Ability to merge multiple images to PDF
- Options for customizing PDF settings, such as page size, orientation, margins, and image quality.
- Support for various image and PDF formats (PDF/A)
- Tools for arranging and reordering the images within PDF before conversion.
- Ability to let user choose between PDF format like A4, A3 portrait and landscape.
- Users are given option to change the filename to their own choice, before conversion.

User Experience:

- User interface design and ease of use.
- Accessibility features for users with disabilities.

PDF Quality:

- Evaluations of the quality and fidelity of the generated PDF documents.
- Assessments of whether the tool preserves image resolution and details.
- **Integration and APIs:**
 - Analysis of whether the converter offers APIs for integration into other applications or websites.
 - Compatibility with popular programming languages and frameworks.
- **User Reviews and Feedbacks:**
 - Aggregation of user reviews from platforms like Trustpilot, G2, and others.
 - Analysis of user feedback on the tool's performance, features, and support.
- **Comparative Studies:**
 - Research that compares different online converters in terms of speed and features and quality.
 - Studies those asses the advantages and disadvantages of various tools.
- **Use Cases:**
 - Exploration of specific use cases where image-to-PDF conversion is critical (e.g., digitization of documents, creating photo albums, archiving).

Future Directions and Research Gaps:

This project has initially been started as image to pdf converter, which in its future endeavors can be customized with other types of conversions, providing maximum user utility rate, and research should be done in this perspective.

2.2 OBJECTIVE

Online PDF converters offer users a convenient and accessible solution for converting files between different formats. They eliminate the need for installing software, providing a hassle-free experience for users who can access these services from any device with internet connectivity. These converters support a wide range of file formats, including Word documents, Excel spreadsheets, PowerPoint presentations, and images, ensuring versatility in conversion options. Moreover, many online converters offer free or freemium services, making them cost-effective for individuals and businesses alike. With fast conversion speeds and no installation requirements, users can quickly convert their files without any delay. Additionally, integration with cloud storage platforms enhances convenience by allowing direct access to files stored online. Security measures such as encryption protocols ensure the privacy of user data during the conversion process. Advanced features like OCR and file manipulation options further enhance the functionality of online PDF converters, catering to a diverse set of user needs. Overall, these converters provide a reliable, cross-platform solution for file conversion needs, empowering users to effortlessly manage their documents.

2.3 REQUIREMENTS ANALYSIS

Requirements to build the Online PDF Converter project there are hardware and the software requirements we need to do this project. The requirements as shown below.

2.3.1 HARDWARE REQUIREMENTS:

- *PROCESSOR*: Intel Core i5 or a better processor
- *HARD DISK SPACE*: Minimum 30 GB or higher v
- *INTERNET*: Must have a good internet connection.
- *OPERATING SYSTEM*: Windows 8, Windows 10, MAC OS.
- *MEMORY*: 8 GB RAM or higher.

2.3.2 SOFTWARE REQUIREMENTS:

- *DEVELOPMENT ENVIRONMENT:* VS Code or Similar software FRONT-END TECHNOLOGIES:
- *HTML/CSS:* Develop the user interface using HTML for structure and CSS for styling.
- *JavaScript:* Write client-side scripts to handle user interactions, form validation, and PDF generation.
- *Front-End Frameworks:* Consider using JavaScript frameworks like React, Angular, or Vue.js for building a more organized and interactive UI.

2.4 DESIGN DESCRIPTION OF PROPOSED PRODUCT

Swift Convert revolutionizes online PDF conversion with its user-friendly interface and powerful features. Designed for seamless navigation, Swift Convert offers support for a wide range of file formats, ensuring effortless conversion to and from PDF. Users benefit from lightning-fast conversion speeds, even with large files, and seamless integration with popular cloud storage services facilitates direct access to documents. Robust encryption protocols guarantee the security of user data throughout the process, while the platform's mobile-friendly design ensures a consistent experience across devices. Swift Convert empowers users to manage their documents with speed, efficiency, and peace of mind.

2.5 PROPOSED PRODUCT

The proposed product is an online image-to-PDF converter, designed to allow users to upload image files and convert them into a single PDF document. The system will operate primarily on the client side, making use of web technologies for a seamless and user-friendly experience.

The converter also offers batch conversion capabilities, enabling users to process multiple files simultaneously, saving valuable time and effort. Moreover, with cross-platform compatibility, users can access the converter from any device with a web browser, ensuring seamless usability across desktops, laptops, tablets, and smartphones.

2.5.1 IDEATION MAP/SYSTEM ARCHITECTURE

The ideation map for an online PDF converter using JavaScript encompasses a wide array of considerations and features aimed at delivering a seamless and efficient user experience as mentioned in figure 2.1. At its core, the application is designed to provide users with a straightforward and intuitive interface for converting various file formats into PDF documents. This includes functionalities such as file upload, conversion settings customization, and download options.

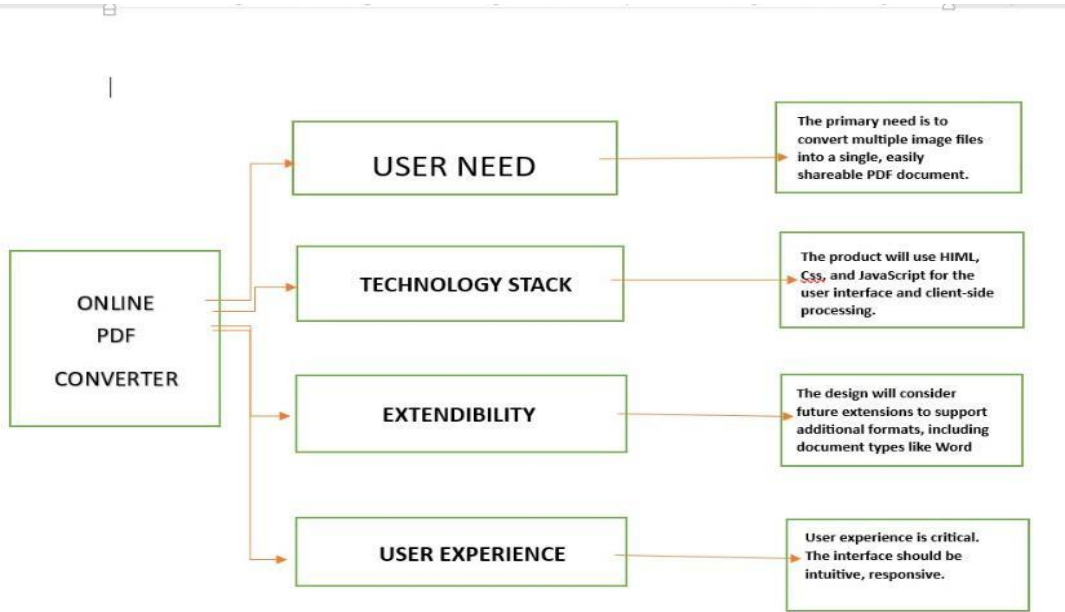


Fig 2.1: Ideation Map

2.5.2 VARIOUS STAGES

Performing an Online PDF Converter project using Front-end involves several stages to effectively gather, clean, analyze, and visualize the data. Here are the various stages:

- *User Interface (UI) Design*: In this stage, the user interface will be designed, focusing on simplicity and ease of use. It will include the file upload feature and settings for customizing the PDF output.
- *Front-End Development*: The UI design will be translated into code using HTML, CSS, and JavaScript. Front-end frameworks like React may be utilized for a more organized UI.
- *Client-Side PDF Conversion*: The core functionality of image-to-PDF conversion will be implemented using the pdf-lib library. It will handle the merging of uploaded images into a PDF.
- *Testing and Quality Assurance*: Rigorous testing, including unit tests and user testing, will be performed to ensure functionality, usability, and security.
- *Deployment and Hosting*: The product will be deployed on a chosen hosting platform (e.g., Heroku, AWS, or a shared web host).
- *Documentation and Help Resources*: User guides and documentation will be created to assist users in using the product effectively.

2.5.3 INTERNAL OR COMPONENT DESIGN STRUCTURE

The internal design structure of an online PDF converter is meticulously crafted to ensure efficient and reliable performance as shown in figure 2.2. At its core, the system features robust input handling capabilities, enabling it to accept a diverse range of file formats including Word documents, Excel spreadsheets, images, and more. Once received, these files undergo processing through a sophisticated

conversion engine, equipped with optimization algorithms to guarantee swift and accurate conversion, even with large or intricate documents.

The internal design structure of an online PDF converter built using JavaScript is composed of several interconnected components working together to provide a seamless user experience. At the core of the application lies the JavaScript logic, which handles the processing of user inputs and the conversion of files to PDF format. This logic interacts closely with the User Interface (UI), which comprises HTML elements for uploading files, selecting conversion options, and displaying the converted PDF.

The converter also offers batch conversion capabilities, enabling users to process multiple files simultaneously, saving valuable time and effort. Moreover, with cross-platform compatibility, users can access the converter from any device with a web browser, ensuring seamless usability across desktops, laptops, tablets, and smartphones.

The internal structure of an online PDF converter built using JavaScript comprises several key components that work together seamlessly to facilitate file conversion. At its core, the converter relies on a robust backend system, typically implemented using server-side technologies such as Node.js, to handle file processing and conversion tasks. This backend system interfaces with various external libraries and services responsible for parsing input files, generating PDF documents, and managing conversion settings.

On the frontend side, the user interface (UI) plays a crucial role in guiding users through the conversion process. The UI is developed using HTML, CSS, and JavaScript frameworks such as React or Angular, providing an intuitive and responsive experience across different devices and screen sizes. Through the UI, users can upload files, customize conversion settings, preview converted documents, and initiate the conversion process.

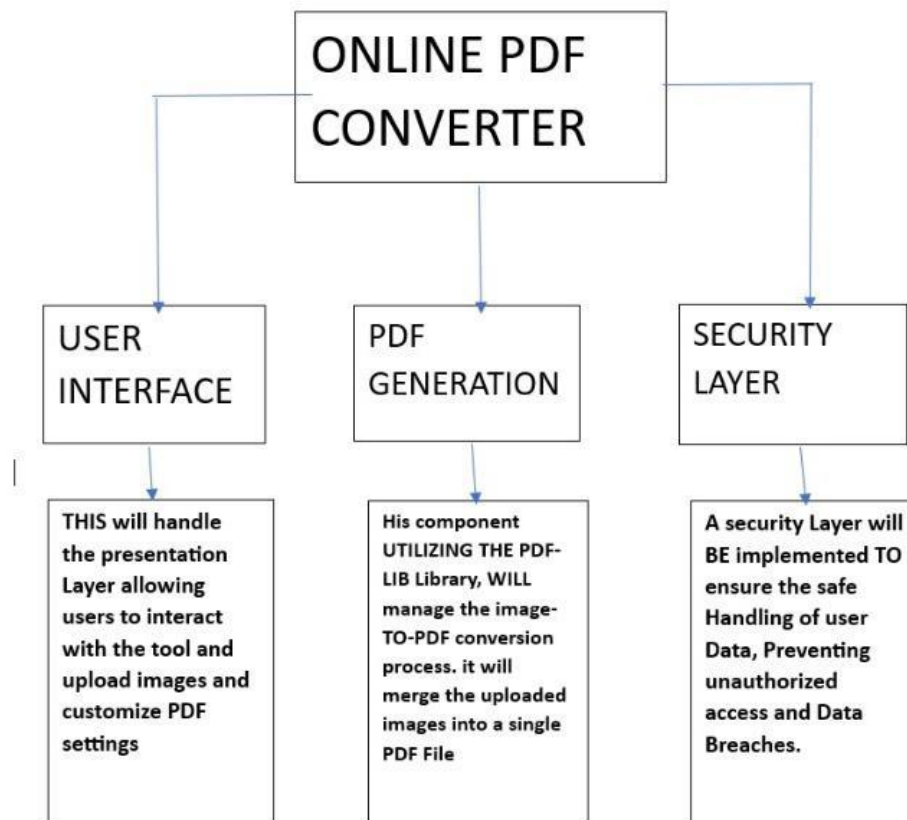


Fig 2.2: Flow Chart

2.5.4 WORKING PRINCIPLES

- Users access the online image-to-PDF converter through a web browser.
- They upload one or more image files.
- The client-side JavaScript processes the images and uses the pdf-lib library to create a PDF document.
- Users can customize PDF settings such as page size and orientation.
- After customization, the PDF document is generated.
- Users can download the generated PDF file or choose to save it to a cloud storage service.

- Users can add their filenames to the desired files, before conversions.
- These features are very much useful for e book writers, or the individuals who wants to digitalize the images to PDF with safety asset.
- Users upload their files to the online converter through a user-friendly interface. This can involve HTML file input elements or more advanced drag-and-drop functionality implemented using JavaScript.
- Upon receiving the uploaded files, the converter processes them using predefined algorithms tailored to handle different file formats. For example, for image-to-PDF conversion, the converter may resize and compress images before embedding them into a PDF document.
- The converter executes the conversion process according to the selected options and settings. This may involve parsing the content of the uploaded files, extracting relevant data, and restructuring it into the desired output format, such as PDF.
- Once the conversion is complete, the converter generates a preview or renders the output file directly in the user's web browser. This allows users to review the converted document and make any necessary adjustments before finalizing the process.
- Finally, users are provided with options to download the converted PDF file directly or save it to their preferred cloud storage services. The converter may also offer additional features like email delivery or sharing links for easy distribution of the converted files.

2.6 FEATURES

- *Image-to-PDF Conversion:* The primary feature is the conversion of multiple image files into a single PDF document.
- *Customization Options:* Users can customize PDF settings, including page size, orientation, and margins.
- *User-Friendly Interface:* The product offers an intuitive and responsive user interface for easy use.

- *File Format Conversion:* The primary function of an online PDF converter is to convert files from various formats such as Word documents, Excel spreadsheets, PowerPoint presentations, images, and more into PDF format, and vice versa.
- *Multiple Input Formats:* It supports a wide range of input formats, allowing users to convert documents, images, and other file types into PDFs.
- *Batch Conversion:* Users can convert multiple files simultaneously, saving time and effort, especially when dealing with large numbers of documents.
- *Customization Options:* The converter may offer options to customize the output PDF, such as adjusting page size, orientation, margins, and compression settings.
- *Merge and Split PDFs:* Users can merge multiple PDF files into a single document or split large PDFs into smaller, more manageable files.
- *OCR (Optical Character Recognition):* Some advanced converters include OCR technology, which enables the conversion of scanned documents and images with text into editable PDFs.
- *Security Features:* Users can add password protection, encryption, and digital signatures to their PDFs to secure sensitive information and control access to documents.
- *Cloud Integration:* Integration with cloud storage services like Google Drive, Dropbox, and OneDrive allows users to directly access files from their cloud accounts and save converted PDFs to the cloud.
- *Cross-Platform Compatibility:* The converter works seamlessly across different devices and operating systems, including desktop computers, laptops, tablets, and smartphones.
- *User-Friendly Interface:* Intuitive and easy-to-use interface with drag-and-drop functionality, clear instructions, and minimal learning curve for users of all skill levels.
- *Offline Access:* Some converters offer offline functionality, allowing users to convert files without an internet connection by downloading and installing standalone software or browser extensions.

- *Customer Support:* Access to customer support services such as FAQs, tutorials, and email support to assist users with any questions or issues they may encounter during the conversion process.
- *File Download and Cloud Integration:* Users can download the generated PDF or save it to cloud storage services.

CHAPTER 3

RESULTS AND DISCUSSION

3.1 RESULTS

The result of using an online PDF converter encompasses several critical factors that determine its overall effectiveness and user satisfaction. Firstly, users expect the converted document to retain the accuracy of the original file, preserving its layout, formatting, and content as closely as possible in the PDF format. Additionally, the quality of the resulting PDF is paramount, encompassing aspects such as image resolution, text clarity, and overall visual presentation to ensure a professional appearance suitable for sharing or printing. Furthermore, the file size of the resulting PDF is significant, with users preferring optimized files that are both manageable and easy to transmit, particularly when dealing with large documents or sharing files online. Speed is also a crucial consideration, as users expect swift conversion processes that enhance productivity and responsiveness. Moreover, accessibility across different platforms and devices is essential, ensuring seamless viewing and interaction with the converted document regardless of the user's device preferences. Security is another critical aspect, with users relying on the converter platform to safeguard their sensitive information from unauthorized access or breaches during the conversion process. Finally, some users may also expect additional features or customization options in the resulting PDF, such as watermarks, merging capabilities, or password protection, to enhance the versatility and usefulness of the converter. Overall, by prioritizing accuracy, quality, efficiency, security, and additional features, online PDF converters can deliver optimal results that meet the diverse needs and expectations of users.

3.2 OUTCOMES

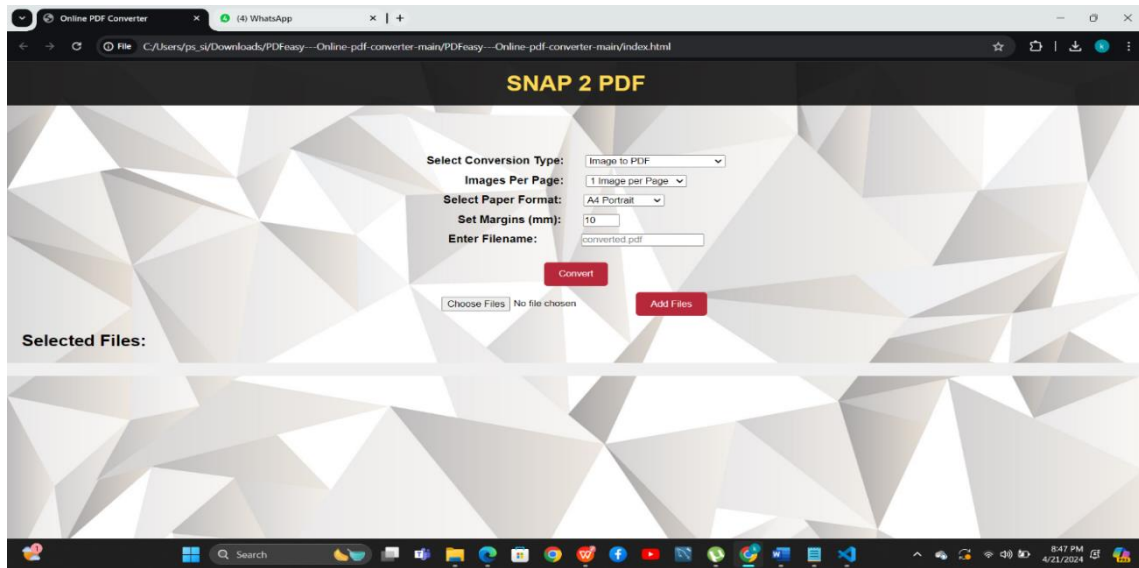


Fig 3.1: Home Page

The above figure 3.1 shows about the interface of the designed online pdf converter. It consists of various options such as images per page, Paper format, margin length and various other options.

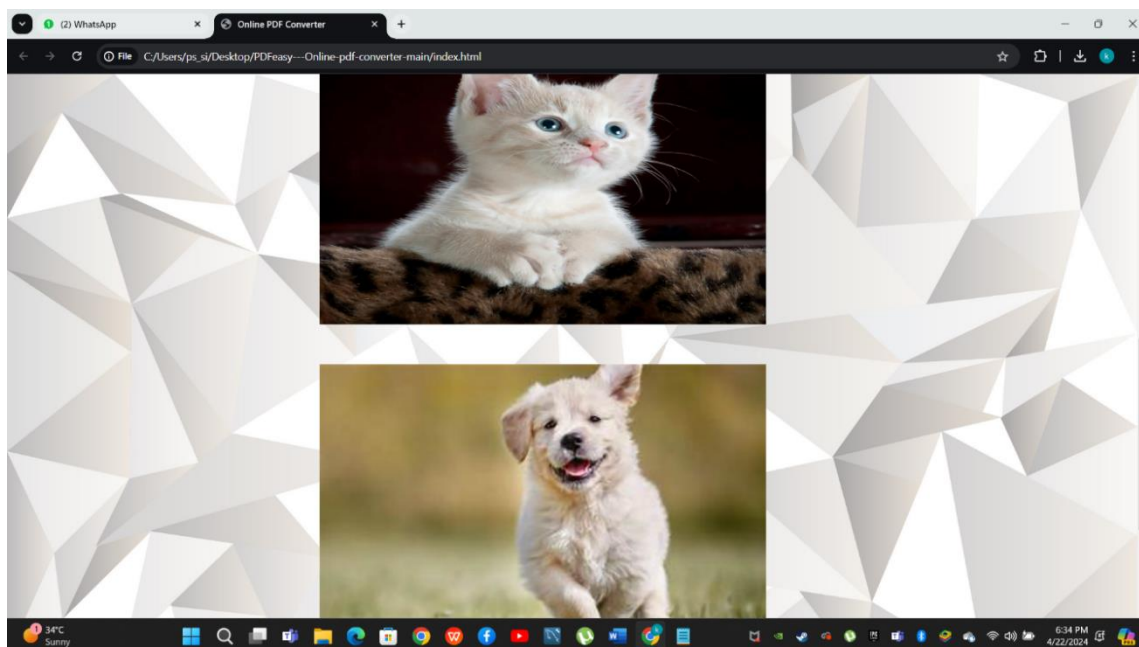


Fig 3.2: File Selection

The selected image files will be displayed here as shown in the above fig 3.2.

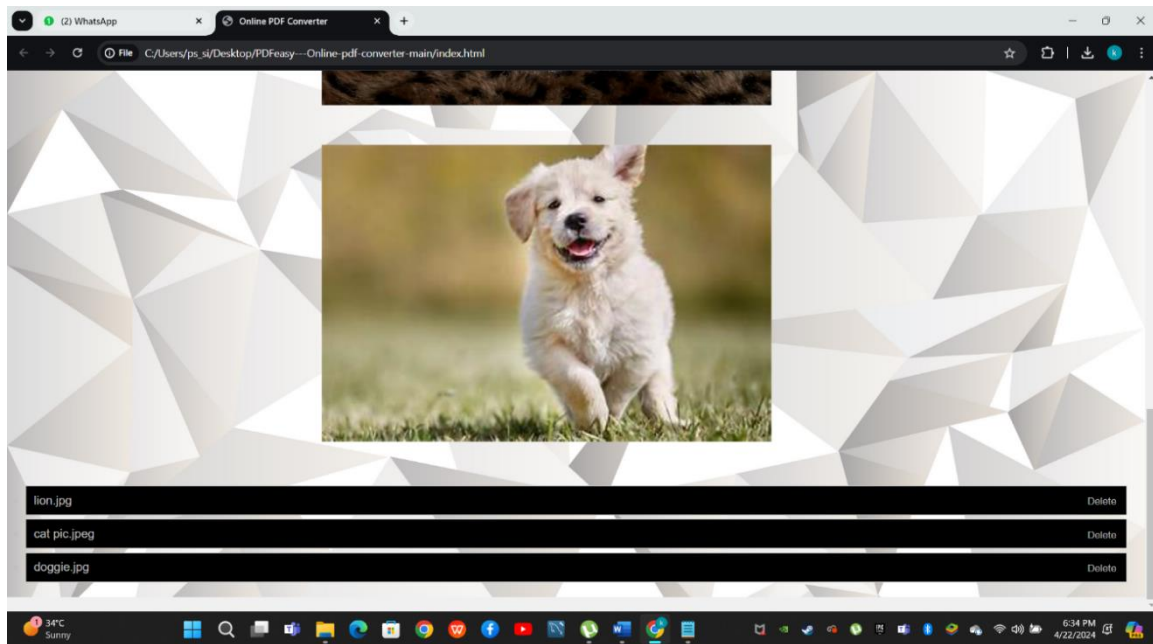


Fig 3.3 Selected Files

The selected image files can be seen in the above figure 3.3. The name of the files along with the images are displayed here.

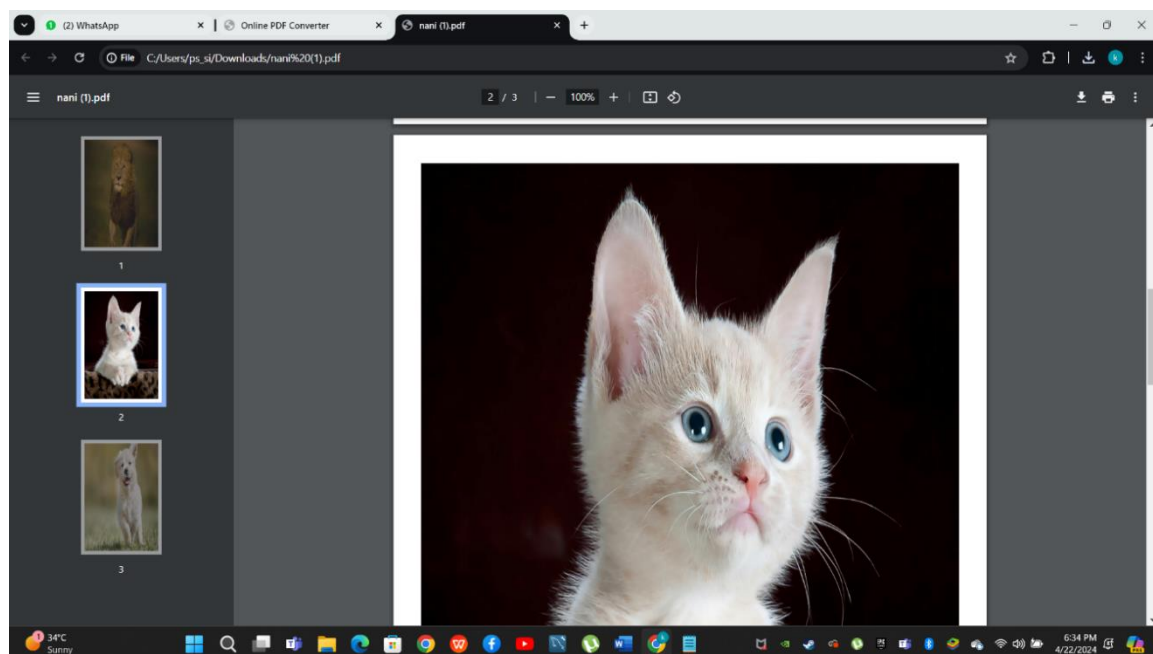


Fig 3.4: Converted PDF

The final result PDF is obtained to us with the user required images as displayed in the figure 3.4.

CHAPTER 4

CONCLUSION AND FUTURE WORK

4.1 CONCLUSION

The Project “Online PDF Converter” is helpful in converting the given image files to PDF, and making them sortable, giving user a fulfilment experience, which is the main objective being achieved. Here are some key takeaways from this project:

User-Centric Solution: The online image-to-PDF converter prioritizes user needs by providing a straightforward and efficient tool for merging multiple image files into a single PDF document. Users can customize their PDF settings, ensuring flexibility and control over the output.

Client-Side Processing: By conducting the conversion process on the client side, the product minimizes server load, reduces processing time, and offers a more responsive user experience. This approach optimizes resource utilization and makes the tool accessible to a broader audience.

Adaptability and Future Expansion: The design of the product lays a solid foundation for future enhancements. Its modular and extensible architecture allows for seamless integration of other file formats, transforming it into a multi-purpose document conversion tool.

Ease of Use and Accessibility: The user-friendly interface ensures that individuals with varying technical expertise can easily navigate and utilize the tool. Cross-browser compatibility and responsive design guarantee accessibility across different devices and platforms.

Data Security and Privacy: The product incorporates robust security measures to safeguard user data and uphold privacy standards. Secure handling of user-uploaded images is a fundamental aspect of the system's design.

Continuous Improvement: The development process includes thorough testing, documentation, and quality assurance practices to maintain and enhance the product's performance, usability, and reliability over time.

In summary, the online PDF converter not only addresses a specific user requirement efficiently but also sets the stage for potential growth and adaptation. As the digital document landscape evolves, this product can evolve with it, extending its capabilities to support various file formats and meeting a broader range of user needs.

In conclusion, the development of an online PDF converter using JavaScript represents a significant advancement in document management and file conversion technology. By harnessing the power of web-based technologies, this project has created a versatile and accessible tool that empowers users to convert files to PDF format directly within their web browsers. The project's use of JavaScript enables seamless integration with modern web APIs and libraries, allowing for features such as drag-and-drop file uploads, real-time previews, and interactive document editing. Moreover, the browser-based nature of the converter ensures compatibility across various devices and platforms, providing users with unparalleled flexibility and convenience. Overall, this project demonstrates the potential of JavaScript to revolutionize document conversion and highlights the ongoing evolution of web-based applications in enhancing productivity and efficiency for users worldwide.

Furthermore, the online PDF converter showcases the versatility and adaptability of JavaScript in modern web development. Its modular and scalable architecture allows for easy customization and extension, enabling developers to add new features and functionality as needed. The project's emphasis on user experience and accessibility ensures that individuals of all technical backgrounds can easily navigate and utilize the converter's capabilities. Additionally, the converter's integration with cloud storage services and collaboration tools enhances its utility, enabling seamless sharing and collaboration on converted documents. As

technology continues to evolve, the online PDF converter stands as a testament to the innovation and creativity of JavaScript developers in solving real-world challenges and empowering users with powerful tools for managing digital documents.

4.2 FUTURE WORK

The future of online PDF converters holds promising advancements and enhancements aimed at improving user experience, expanding functionality, and addressing emerging needs. Some potential areas of future work for online PDF converters include:

Enhanced Security Features: As the need for secure document handling grows, future PDF converters may incorporate advanced encryption methods, digital signatures, watermarking, and rights management features to ensure the confidentiality, integrity, and authenticity of PDF documents. *Artificial Intelligence and Machine Learning as Integration of AI and ML technologies can enable advanced features such as intelligent document recognition, automatic formatting, content extraction, and language translation, making the conversion process more accurate, efficient, and automated.* *Cloud-Based Collaboration:* Future PDF converters may leverage cloud computing and collaboration tools to facilitate real-time collaboration on PDF documents, allowing multiple users to edit, comment, and review PDFs simultaneously from different locations.

Accessibility and Inclusivity: Accessibility features such as screen reader compatibility, text-to-speech functionality, and support for alternative text formats can make PDF documents more accessible to users with disabilities, ensuring inclusivity and compliance with accessibility standards. *Integration with Productivity Suites* can be used for Seamless integration with popular productivity suites like Microsoft Office, Google Workspace, and Adobe Creative Cloud can streamline workflows and enable direct conversion of documents, spreadsheets, presentations, and graphics to PDF format within familiar software environments.

Mobile Optimization With the increasing use of mobile devices for document management, future PDF converters may focus on optimizing user interfaces, performance, and functionality for mobile platforms, enabling users to convert, view, and edit PDFs on smartphones and tablets with ease Cross-Platform Compatibility is that Ensuring compatibility and consistency across different operating systems, web browsers, and device types will remain a priority, allowing users to access and use PDF conversion tools seamlessly on any platform or device.

Advanced Editing Tools: Integration of advanced editing tools such as annotations, redaction, form filling, and interactive elements can empower users to modify and enhance PDF documents without the need for specialized software, increasing productivity and versatility. Regulatory Compliance focus on compliance with industry standards, regulations, and legal requirements related to document management, data privacy, and electronic signatures will be essential to meet the evolving needs of businesses and organizations in various sectors. User Feedback and Iterative Improvements means Gathering user feedback, monitoring usage patterns, and iteratively improving features and functionality based on user needs and preferences will be critical for the ongoing development and evolution of online PDF converters to ensure they remain relevant and effective in the long term.

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Websites referred to study the structure of project:

- Adobe Acrobat (<https://www.adobe.com/acrobat/online/convert-pdf.html>)
- Online2PDF (<https://online2pdf.com/>)
- Smallpdf (<https://smallpdf.com/>)
- Zamzar (<https://www.zamzar.com/>)
- iLovePDF (<https://www.ilovepdf.com/>)

APPENDICES

A. SAMPLE CODE

```
<!DOCTYPE html>
<html>
<head>
  <title>Online PDF Converter</title>
  <link rel="stylesheet" href="styles.css">
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.3.1/jquery.min.js"></sc
ript>
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/jqueryui/1.12.1/jquery-
ui.min.js"></script>
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/jspdf/1.5.3/jspdf.debug.js"></sc
ript>
  <style>
    .file-container{
      text-align: center;
    }
    h1{
      text-align: center;
    }
    .options{
      text-align: center;
      padding-top: 50px;
      line-height: 30px;
    }
    label{
      font-weight: bold;
    }
  </style>
</head>
<body>
  <header>
    <h1>SNAP 2 PDF</h1>

  </header>
  <div class="container">
    <div class="options">
```

```

        <label for="conversionType" style="padding-right: 25px;">Select
Conversion Type:</label>
        <select id="conversionType" style="padding-right: 83px;">
            <option value="imageToPdf">Image to PDF</option>

        </select>
        <br>
        <label for="imagesPerPage" style="padding-right: 25px;">Images
Per Page:</label>
        <select id="imagesPerPage" style="margin-left: 1px;">
            <option value="1">1 Image per Page</option>
            <option value="2">2 Images per Page</option>
            <option value="4">4 Images per Page</option>
        </select>
        <br>
        <label for="paperFormat" style="padding-right: 25px;">Select
Paper Format:</label>
        <select id="paperFormat" style="margin-right: 60px;">
            <option value="a4">A4 Portrait</option>
            <option value="a4-landscape">A4 Landscape</option>
            <option value="a3">A3 Portrait</option>
            <option value="a3-landscape">A3 Landscape</option>
        </select>
        <br>
        <label for="marginInput" style="padding-right: 25px ;">Set
Margins (mm):</label>
        <input type="number" id="marginInput" value="10" min="0"
style="margin-right: 100px;">
        <br>
        <label for="filename" style="padding-right: 30px;">Enter
Filename:</label>
        <input type="text" id="filename" placeholder="converted.pdf"
style="margin-left: 25px;">
        <br>
        <button id="convert" style="margin-top: 20px;">Convert</button>
    </div>
    <div class="file-container" >
        <input type="file" id="upload" multiple >
        <button id="addFiles" style="text-align: center;">Add
Files</button>
    </div>
</div>
<div id="fileList" class="container">
    <h2>Selected Files:</h2>
    <div id="filePreviews" class="file-previews"></div>
    <ul id="sortable" class="sortable-files"></ul>
</div>

```

```

<div id="progress-bar" class="progress-bar">
  <div id="progress" class="progress"></div>
</div>

<script>
  var files = [];
  var conversionType = "imageToPdf"; // Default conversion type
  $(function() {
    $(".sortable-files").sortable();
  });
  // Handle conversion type change
  document.getElementById('conversionType').addEventListener('change',
function() {
    conversionType = this.value;
    updateFileList();
  });
  document.getElementById('addFiles').addEventListener('click',
function() {
    var input = document.getElementById('upload');
    var selectedFiles = input.files;
    Array.from(selectedFiles).forEach(function(file, i) {
      var reader = new FileReader();
      reader.onloadend = function() {
        files.push({ data: reader.result, file: file });
        updateFileList();
      }
      reader.readAsDataURL(file);
    });
  });
  document.getElementById('convert').addEventListener('click',
function() {
    if (conversionType === "imageToPdf") {
      // Convert images to PDF
      convertImagesToPdf();
    } else if (conversionType === "pdfToImage") {
      // Convert PDF to images
      convertPdfToImages();
    }
  });
  function updateFileList() {
    var sortableList = document.getElementById('sortable');
    var filePreviews = document.getElementById('filePreviews');
    sortableList.innerHTML = '';
    filePreviews.innerHTML = ''; // Clear previous file previews
    files.forEach(function(file, i) {
      var listItem = document.createElement('li');
      listItem.className = 'sortable-item'; // Add a class for
sortable items
      listItem.innerHTML = `

```

```

        <span class="file-filename">${file.file.name}</span>
        <button class="delete-button">Delete</button>
    `;
    // Add click event for delete button
    listItem.querySelector('.delete-
button').addEventListener('click', function() {
        files.splice(i, 1);
        updateFileList();
    });
    sortableList.appendChild(listItem);
    // Display file previews (if image)
    if (file.file.type.match('image.*')) {
        var filePreview = document.createElement('img');
        filePreview.src = file.data;
        filePreview.className = 'file-preview';
        filePreviews.appendChild(filePreview);
    }
    });
}

function convertImagesToPdf() {
var doc;
var selectedFormat = document.getElementById('paperFormat').value;
var margin = parseInt(document.getElementById('marginInput').value);
var filename = document.getElementById('filename').value ||
'converted.pdf'; // Default filename is 'converted.pdf'
var imagesPerPage =
parseInt(document.getElementById('imagesPerPage').value); // Number of
images per page
if (selectedFormat === 'a4') {
    doc = new jsPDF();
} else if (selectedFormat === 'a4-landscape') {
    doc = new jsPDF('landscape', 'mm', 'a4');
} else if (selectedFormat === 'a3') {
    doc = new jsPDF('portrait', 'mm', 'a3');
} else if (selectedFormat === 'a3-landscape') {
    doc = new jsPDF('landscape', 'mm', 'a3');
}
var imagesAdded = 0;
var pageWidth = doc.internal.pageSize.getWidth() - 2 * margin;
var pageHeight = doc.internal.pageSize.getHeight() - 2 * margin;
files.forEach(function (file, i) {
    if (file.file.type.match('image.*')) {
        // Calculate image dimensions based on the paper format,
margins, and number of images
        var imageWidth, imageHeight;
        if (imagesPerPage === 1) {
            // Single image per page, fill the page
            imageWidth = pageWidth;
            imageHeight = pageHeight;

```

```

    } else if (imagesPerPage === 2) {
        // Two images per page, arrange them side by side
        imageWidth = pageWidth / 2;
        imageHeight = pageHeight;
    } else if (imagesPerPage === 4) {
        // Four images per page, arrange them in a 2x2 grid
        imageWidth = pageWidth / 2;
        imageHeight = pageHeight / 2;
    }
    var x, y;
    if (imagesPerPage === 1) {
        x = margin;
        y = margin;
    } else if (imagesPerPage === 2) {
        x = margin + (imagesAdded % 2) * imageWidth;
        y = margin + Math.floor(imagesAdded / 2) * imageHeight;
    } else if (imagesPerPage === 4) {
        x = margin + (imagesAdded % 2) * imageWidth;
        y = margin + Math.floor(imagesAdded / 2) * imageHeight;
    }
    doc.addImage(
        file.data,
        'JPEG',
        x,
        y,
        imageWidth,
        imageHeight
    );
    imagesAdded++;
    if (imagesAdded % imagesPerPage === 0 && i !== files.length - 1)
{
        doc.addPage();
    }
    var progress = ((i + 1) / files.length) * 100;
    document.getElementById('progress').style.width = progress +
    '%';
    }
    });
    doc.save(filename);
};

</script>
</body>
</html>

```

```

* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}
/* Apply background image */
body {
  font-family: Helvetica, sans-serif;
  background-image: url('https://www.pixelstalk.net/wp-
content/uploads/2016/09/Download-All-White-Image.jpg'); /* Add your
background image URL here */
  background-size: cover;
  background-repeat: no-repeat;
  background-attachment: fixed;
}
/* Header styles */
header {
  background-color: rgba(17, 17, 17, 0.9); /* Adjust background color */
  color: #ffdb58; /* Text color (changed to yellow) */
  text-align: left;
  padding: 15px;
}
/* Container styles */
.container {
  margin: 20px; /* Adjust margin as needed */
  text-align: left;
}
/* Button styles */
button {
  padding: 10px 20px;
  background-color: #b7283b; /* Button background color */
  color: #fff; /* Button text color */
  border: none;
  cursor: pointer;
  margin: 5px;
  border-radius: 5px; /* Rounded corners */
  transition: background-color 0.3s ease; /* Smooth hover effect */
}
button:hover {
  background-color: #0056b3; /* Darker color on hover */
}
/* Link styles */
a {
  color: #ffdb58; /* Link color (changed to yellow) */
  text-decoration: none; /* Remove underlines */
  transition: color 0.3s ease; /* Smooth color change on hover */
}
a:hover {
  color: #ffa500; /* Darker color on hover (changed to orange) */
}

```

```

}
/* Number input styles */
input[type="number"] {
    width: 50px; /* Adjust width as needed */
}
/* Image list container */
.image-list {
    display: flex;
    flex-wrap: wrap;
    gap: 10px;
    position: relative; /* Needed for positioning the delete button */
}
/* Image display styles */
.image-list img {
    max-width: 100px; /* Adjust the maximum width for small format */
    max-height: 100px; /* Adjust the maximum height for small format */
    position: relative; /* Needed for positioning the delete button */
}
/* Delete button styles */
.delete-button {
    position: absolute;
    top: 5px;
    right: 5px;
    background-color: black;
    color: silver;
    border: none;
    border-radius: 50%;
    padding: 3px;
    cursor: pointer;
}
/* List item styles */
li {
    background-color: black;
    padding: 10px;
    margin: 5px;
    border: 1px solid #ccc;
    cursor: grab;
    position: relative;
    min-width: 100px;
    color: silver;
}
li:hover {
    background-color: #f0f0f0;
}
/* Progress bar styles */
.progress-bar {
    width: 100%;
    background-color: #f0f0f0;
    height: 20px;
}

```

```

    margin-top: 20px;
}

/* Progress indicator styles */
.progress {
    width: 0;
    height: 100%;
    background-color: #007bff; /* Change color to our preference, and it
Indicates conversion, once the bar turns completely blue, it indicates that
the process is complete. */
    transition: width 0.3s ease-in-out;
}
.file-preview{
    width:1000px;
    height:450px;
    padding-bottom: 50px;
    padding-left: 400px;
}

/* Note this project can be extended to other file formats and can be
enhanced in better way.
/* Add any additional CSS styles and customizations as needed */

```