DOCX to PDF Converter Documentation

# Project Overview

The DOCX to PDF Converter is a web application that allows users to upload .docx files and convert them into .pdf format. Built with Flask, it uses python-docx for reading Word documents and FPDF for generating PDFs. The tool provides a simple, efficient way to convert documents for easy sharing and printing.

# Features

- Upload DOCX Files: Users can upload .docx files through a simple HTML form.  
- Convert to PDF: The uploaded DOCX file is processed and converted into a PDF.  
- Download PDF: After conversion, users can download the converted PDF file directly from the website.  
- Error Handling: The application gracefully handles errors such as unsupported file formats and missing files.

# Tech Stack

- Back-End: Flask (Python)  
- Front-End: HTML, CSS, JavaScript  
- PDF Generation: FPDF (Python)  
- DOCX Parsing: python-docx (Python)

# Installation Guide

Ensure the following are installed on your system:  
- Python 3.x  
- pip (Python package manager)  
  
Steps to Set Up:  
1. Clone the Repository:  
 git clone https://github.com/yourusername/DocToPdf.git  
 cd DocToPdf  
2. Set Up Virtual Environment:  
 python -m venv venv  
 venv\Scripts\activate # For Windows  
 source venv/bin/activate # For Linux/Mac  
3. Install Dependencies:  
 pip install -r requirements.txt  
4. Run the Application:  
 python app.py  
5. Access the Application:  
 Open a web browser and go to http://127.0.0.1:5000/ to use the converter.

# API Endpoints

## /upload (POST)

- Description: Accepts a .docx file from the user, processes it, and returns the URL to download the converted PDF.  
- Request: (Content-Type: multipart/form-data, Parameters: file)  
- Response: 200 OK with download URL or 400 Bad Request if error.

## /download/<filename> (GET)

- Description: Allows the user to download the converted PDF file.  
- Request: (URL Parameters: filename)  
- Response: 200 OK for file download, 404 Not Found if file does not exist.

# File Structure

DocToPdf/  
├── app.py # Flask application logic  
├── requirements.txt # List of Python dependencies  
├── index.html # Front-end HTML for the converter form  
├── uploads/ # Folder to store uploaded DOCX files  
├── converted/ # Folder to store converted PDF files  
└── README.md # Project documentation (this file)

# License

This project is licensed under the MIT License.

# Contributing

1. Fork the repository.  
2. Create a new branch (`git checkout -b feature-name`).  
3. Commit your changes (`git commit -am 'Add feature'`).  
4. Push to the branch (`git push origin feature-name`).  
5. Open a pull request.