

```
--- projectToText.py ---
```

```
import os
```

```
from fpdf import FPDF
```

```
# Directory where the project files are located
```

```
directory = r"D:\HARRISBURG\Harrisburg Master's Fifth Term Late Summer\CISC  
699\DiscordBotProject_CISC699"
```

```
output_pdf_path = os.path.join(directory, "projectToText.pdf")
```

```
# Lists for files and folders to ignore
```

```
filesToIgnore = ['ignore_this.py', 'Tests_URLs.txt', 'UseCases.txt', 'Read.md', '*.pdf'] # Example file  
names to ignore
```

```
foldersToIgnore = ['ignore_folder', '.git', '__pycache__', 'PersonelTest', 'MockTesting',  
'ExportedFiles'] # Folders to ignore
```

```
# Function to retrieve all text from files, ignoring specific folders and files
```

```
def extract_project_text(directory, ignore_files=None, ignore_folders=None):
```

```
    if ignore_files is None:
```

```
        ignore_files = []
```

```
    if ignore_folders is None:
```

```
        ignore_folders = []
```

```
    project_text = ""
```

```
    for root, dirs, files in os.walk(directory):
```

```
        # Ignore specific folders
```

```
        dirs[:] = [d for d in dirs if d not in ignore_folders]
```

for file in files:

Skip ignored files

if file in ignore_files:

continue

Only considering relevant file types

if file.endswith('.py'):

file_path = os.path.join(root, file)

try:

with open(file_path, 'r', encoding='utf-8') as f:

project_text += f"--- {file} ---\n"

project_text += f.read() + "\n\n"

except Exception as e:

print(f"Could not read file {file_path}: {e}")

return project_text

Function to generate a PDF with the extracted text

def create_pdf(text, output_path):

pdf = FPDF()

pdf.set_auto_page_break(auto=True, margin=15)

pdf.add_page()

pdf.set_font("Arial", size=12)

Ensure proper encoding handling

for line in text.split("\n"):

Convert the text to UTF-8 and handle unsupported characters

try:

```

        pdf.multi_cell(0, 10, line.encode('latin1', 'replace').decode('latin1'))

except UnicodeEncodeError:

    # Handle any other encoding issues

    pdf.multi_cell(0, 10, line.encode('ascii', 'replace').decode('ascii'))


pdf.output(output_path)


# Function to create PDFs for specific folders

def create_folder_specific_pdfs(directory, ignore_files=None, ignore_folders=None):

    if ignore_files is None:

        ignore_files = []

    if ignore_folders is None:

        ignore_folders = []


    # Create PDFs for each folder in the project

    for folder in os.listdir(directory):

        folder_path = os.path.join(directory, folder)

        if os.path.isdir(folder_path) and folder not in ignore_folders:

            folder_text = extract_project_text(folder_path, ignore_files, ignore_folders)

            if folder_text:

                folder_pdf_path = os.path.join(folder_path, f"All_{folder}_files_text.pdf")

                create_pdf(folder_text, folder_pdf_path)

                print(f"PDF created for folder {folder} at: {folder_pdf_path}")


# Extract project text and create the main project PDF

project_text = extract_project_text(directory, filesToIgnore, foldersToIgnore)

if project_text:

```

```

create_pdf(project_text, output_pdf_path)

print(f"Main PDF created with all project's text at: {output_pdf_path}")

else:

    print("No project text found.")


# Create PDFs for each specific folder

create_folder_specific_pdfs(directory, filesToIgnore, foldersToIgnore)


--- project_structure.py ---

import os


def list_files_and_folders(directory, output_file):

    with open(output_file, 'w') as f:

        for root, dirs, files in os.walk(directory):

            # Ignore .git and __pycache__ folders

            dirs[:] = [d for d in dirs if d not in ['.git', '__pycache__']]

            f.write(f"Directory: {root}\n")

            for dir_name in dirs:

                f.write(f" Folder: {dir_name}\n")

            for file_name in files:

                f.write(f" File: {file_name}\n")


# Update the directory path to your project folder

project_directory = "D:/HARRISBURG/Harrisburg Master's Fifth Term Late Summer/CISC
699/DiscordBotProject_CISC699"

```

```
output_file = os.path.join(project_directory, "other/project_structure.txt")
```

```
# Call the function to list files and save output to .txt
```

```
list_files_and_folders(project_directory, output_file)
```

```
print(f"File structure saved to {output_file}")
```