

DOCUMENTAZIONE PROGETTO PYTHON

Progetto: PySyncroNet

Cartella: C:\Users\Sigma\source\repos\python\PySyncroNet

Cartelle escluse:

- .continue
- .git
- .gradle
- .idea
- .metadata
- .recommenders
- .settings
- .venv
- .vs
- .vscode
- __pycache__
- bin
- build
- dist
- gradle
- jvm
- models2
- node_modules
- obj
- out
- packages
- target
- venv

File esclusi:

- *.temp
- *.tmp
- .DS_Store
- .env
- .env.local
- .env.production
- .gitattributes
- .gitignore
- config.py
- desktop.ini
- local_settings.py
- package-lock.json
- settings.py
- thumbs.db

- yarn.lock

Estensioni escluse:

- .7z
- .accdb
- .avi
- .bin
- .bmp
- .class
- .db
- .dll
- .doc
- .docx
- .ear
- .exe
- .flac
- .gif
- .gz
- .ico
- .idb
- .jar
- .jpeg
- .jpg
- .mdb
- .mkv
- .mov
- .mp3
- .mp4
- .ogg
- .pdb
- .pdf
- .png
- .ppt
- .pptx
- .pyc
- .pyd
- .pyo
- .rar
- .safetensors
- .so
- .sqlite
- .sqlite3
- .svg
- .tar
- .tiff
- .war
- .wav
- .webp
- .xls
- .xlsx
- .zip

File: folder_to_pdf.py

```
1 | #File: folder_to_pdf.py
2 | import tkinter as tk
3 | from tkinter import ttk, filedialog, messagebox, scrolledtext
4 | import threading
5 | import os
6 | from pathlib import Path
7 | import sys
8 | import webbrowser
9 | from datetime import datetime
10 | from fpdf import FPDF
11 |
12 |
13 | class PythonProjectToPDF:
14 |     def __init__(self):
15 |         self.pdf = FPDF()
16 |         self.pdf.set_auto_page_break(auto=True, margin=15)
17 |         self.excluded_dirs = set()
18 |         self.excluded_files = set()
19 |         self.excluded_extensions = set()
20 |
21 |     def should_exclude(self, file_path, relative_path):
22 |         """Determina se un file o cartella dovrebbe essere escluso"""
23 |         # Controlla se è una cartella esclusa
24 |         if any(excluded_dir in str(relative_path).split(os.sep) for excluded_dir in self.excluded_dirs):
25 |             return True
26 |
27 |         # Controlla se è un file escluso
28 |         if file_path.name in self.excluded_files:
29 |             return True
30 |
31 |         # Controlla l'estensione del file
32 |         if file_path.suffix.lower() in self.excluded_extensions:
33 |             return True
34 |
35 |         return False
36 |
37 |     def clean_text(self, text):
38 |         """Pulisce il testo rimuovendo o sostituendo caratteri non compatibili con latin-1"""
39 |         try:
40 |             # Prova a codificare in latin-1 per verificare la compatibilità
41 |             text.encode('latin-1')
42 |             return text
43 |         except UnicodeEncodeError:
44 |             # Sostituisci i caratteri non compatibili
45 |             cleaned_text = text.encode('latin-1', errors='replace').decode('latin-1')
46 |             return cleaned_text
47 |
48 |     def add_file_to_pdf(self, file_path, relative_path):
49 |         """Aggiunge il contenuto di un file al PDF"""
50 |         try:
51 |             # Prova diverse codifiche
52 |             encodings = ['utf-8', 'latin-1', 'cp1252', 'iso-8859-1']
53 |             content = None
54 |
55 |             for encoding in encodings:
56 |                 try:
57 |                     with open(file_path, 'r', encoding=encoding) as file:
58 |                         content = file.read()
59 |                     break
60 |                 except UnicodeDecodeError:
61 |                     continue
62 |             except Exception:
63 |                 continue
64 |
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65 |         if content is None:
66 |             content = f"[Impossibile leggere il file {file_path} - formato binario o codifica sconosciuta]"
67 |
68 |     except Exception as e:
69 |         content = f"[Errore nella lettura del file {file_path}: {str(e)}]"
70 |
71 |     # Pulisci il contenuto dai caratteri non compatibili
72 |     content = self.clean_text(content)
73 |     relative_path_str = self.clean_text(str(relative_path))
74 |
75 |     # Aggiungi una nuova pagina per ogni file
76 |     self.pdf.add_page()
77 |
78 |     # Intestazione del file
79 |     self.pdf.set_font('Arial', 'B', 14)
80 |     self.pdf.cell(0, 10, f"File: {relative_path_str}", ln=True)
81 |     self.pdf.ln(5)
82 |
83 |     # Contenuto del file
84 |     self.pdf.set_font('Courier', '', 8) # Dimensione font più piccola per più contenuto
85 |
86 |     # Dividi il contenuto in linee e aggiungi al PDF
87 |     lines = content.split('\n')
88 |     for i, line in enumerate(lines, 1):
89 |         # Pulisci ogni linea
90 |         clean_line = self.clean_text(line)
91 |
92 |         # Gestisci linee troppo lunghe
93 |         if len(clean_line) > 120:
94 |             # Tronca le linee molto lunghe
95 |             clean_line = clean_line[:120] + "... [troncato]"
96 |
97 |         # Aggiungi numero di linea
98 |         line_number = f"{i:4d} | {clean_line}"
99 |         self.pdf.cell(0, 4, line_number, ln=True) # Altezza linea più piccola
100 |
101 | def create_pdf(self, project_path, output_pdf="project_documentation.pdf", custom_exclusions=None):
102 |     """Crea il PDF dalla cartella del progetto"""
103 |
104 |     # Applica le esclusioni
105 |     if custom_exclusions:
106 |         if 'dirs' in custom_exclusions:
107 |             self.excluded_dirs.update(custom_exclusions['dirs'])
108 |         if 'files' in custom_exclusions:
109 |             self.excluded_files.update(custom_exclusions['files'])
110 |         if 'extensions' in custom_exclusions:
111 |             self.excluded_extensions.update(custom_exclusions['extensions'])
112 |
113 |     project_path = Path(project_path)
114 |
115 |     if not project_path.exists():
116 |         raise ValueError(f"La cartella '{project_path}' non esiste.")
117 |
118 |     # Pagina titolo
119 |     self.pdf.add_page()
120 |     self.pdf.set_font('Arial', 'B', 20)
121 |     self.pdf.cell(0, 20, "DOCUMENTAZIONE PROGETTO PYTHON", ln=True, align='C')
122 |     self.pdf.ln(10)
123 |
124 |     self.pdf.set_font('Arial', '', 12)
125 |     self.pdf.cell(0, 10, f"Progetto: {project_path.name}", ln=True)
126 |     self.pdf.cell(0, 10, f"Cartella: {project_path.absolute()}", ln=True)
127 |     self.pdf.ln(10)
128 |
129 |     # Informazioni sulle esclusioni
130 |     self.pdf.set_font('Arial', 'B', 14)
131 |     self.pdf.cell(0, 10, "Cartelle escluse:", ln=True)

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132 |         self.pdf.set_font('Arial', '', 10)
133 |         for excluded_dir in sorted(self.excluded_dirs):
134 |             self.pdf.cell(0, 5, f" - {excluded_dir}", ln=True)
135 |
136 |         self.pdf.ln(5)
137 |         self.pdf.set_font('Arial', 'B', 14)
138 |         self.pdf.cell(0, 10, "File esclusi:", ln=True)
139 |         self.pdf.set_font('Arial', '', 10)
140 |         for excluded_file in sorted(self.excluded_files):
141 |             self.pdf.cell(0, 5, f" - {excluded_file}", ln=True)
142 |
143 |         self.pdf.ln(5)
144 |         self.pdf.set_font('Arial', 'B', 14)
145 |         self.pdf.cell(0, 10, "Estensioni escluse:", ln=True)
146 |         self.pdf.set_font('Arial', '', 10)
147 |         for excluded_ext in sorted(self.excluded_extensions):
148 |             self.pdf.cell(0, 5, f" - {excluded_ext}", ln=True)
149 |
150 |         # Elenco dei file processati
151 |         processed_files = []
152 |
153 |         # Cerca ricorsivamente tutti i file
154 |         for file_path in project_path.rglob('*'):
155 |             if file_path.is_file():
156 |                 relative_path = file_path.relative_to(project_path)
157 |
158 |                 if not self.should_exclude(file_path, relative_path):
159 |                     processed_files.append(str(relative_path))
160 |                     self.add_file_to_pdf(file_path, relative_path)
161 |
162 |         # Salva il PDF
163 |         self.pdf.output(output_pdf)
164 |         return len(processed_files)
165 |
166 |
167 | class UniversalPDFToProject:
168 |     def __init__(self):
169 |         pass
170 |
171 |     def recreate_project_structure(self, pdf_path, output_folder):
172 |         """Placeholder per la ricostruzione del progetto"""
173 |         # Per ora restituiamo True per simulare il successo
174 |         # Implementa qui la logica di ricostruzione dal PDF
175 |         return True
176 |
177 |
178 | class AdvancedPDFProjectManager:
179 |     def __init__(self, root):
180 |         self.root = root
181 |         self.root.title("? Advanced PDF Project Manager")
182 |         self.root.geometry("1000x800")
183 |         self.root.configure(bg="#2b2b2b")
184 |
185 |         # Variabili principali
186 |         self.project_path = tk.StringVar()
187 |         self.output_pdf = tk.StringVar(value="project_documentation.pdf")
188 |         self.pdf_to_read = tk.StringVar()
189 |         self.reconstruction_output = tk.StringVar()
190 |
191 |         # Esclusioni predefinite complete
192 |         self.default_excluded_dirs = {
193 |             'venv', '.venv', '__pycache__', '.git', '.vscode', '.idea',
194 |             'node_modules', 'build', 'dist', 'models2', '.continue',
195 |             '.vs', 'target', 'out', 'bin', 'obj', 'packages', '.gradle',
196 |             '.settings', '.metadata', '.recommenders', 'gradle', 'jvm'
197 |         }
198 |

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199 |         self.default_excluded_files = {
200 |             'config.py', 'settings.py', 'local_settings.py', '.env',
201 |             '.gitignore', '.gitattributes', '.env.local', '.env.production',
202 |             'package-lock.json', 'yarn.lock', 'thumbs.db', '.DS_Store',
203 |             'desktop.ini'
204 |         }
205 |
206 |         self.default_excluded_extensions = {
207 |             '.pyc', '.pyo', '.pyd', '.so', '.dll', '.exe', '.safetensors',
208 |             '.bin', '.jpg', '.jpeg', '.png', '.gif', '.bmp', '.tiff', '.webp',
209 |             '.ico', '.svg', '.pdf', '.doc', '.docx', '.xls', '.xlsx', '.ppt',
210 |             '.pptx', '.zip', '.rar', '.7z', '.tar', '.gz', '.mp4', '.avi',
211 |             '.mkv', '.mov', '.mp3', '.wav', '.flac', '.ogg', '.db', '.sqlite',
212 |             '.sqlite3', '.mdb', '.accdb', '.pdb', '.idb', '.class', '.jar',
213 |             '.war', '.ear'
214 |         }
215 |
216 |         # Variabili per le esclusioni
217 |         self.exclude_dirs_var = tk.StringVar(value="", ".join(sorted(self.default_excluded_dirs)))
218 |         self.exclude_files_var = tk.StringVar(value="", ".join(sorted(self.default_excluded_files)))
219 |         self.exclude_extensions_var = tk.StringVar(value="", ".join(sorted(self.default_excluded_extensions)))
220 |
221 |         self.setup_styles()
222 |         self.setup_ui()
223 |
224 |     def setup_styles(self):
225 |         """Configura gli stili per l'interfaccia"""
226 |         style = ttk.Style()
227 |
228 |         # Tema per ttk
229 |         style.configure('Custom.TFrame', background='#2b2b2b')
230 |         style.configure('Custom.TLabel', background='#2b2b2b', foreground='#ffffff')
231 |         style.configure('Custom.TButton', background='#0e639c', foreground='#ffffff')
232 |         style.configure('Success.TButton', background='#388a34', foreground='#ffffff')
233 |         style.configure('Section.TLabelframe', background='#2b2b2b', foreground='#ce9178')
234 |         style.configure('Section.TLabelframe.Label', background='#2b2b2b', foreground='#ce9178')
235 |
236 |     def setup_ui(self):
237 |         """Configura l'interfaccia utente principale"""
238 |         # Header con titolo
239 |         header_frame = ttk.Frame(self.root, style='Custom.TFrame')
240 |         header_frame.pack(fill='x', padx=15, pady=10)
241 |
242 |         # Usiamo tk.Label invece di ttk.Label per avere più controllo sullo stile
243 |         title_label = tk.Label(header_frame,
244 |                                text="? Advanced PDF Project Manager",
245 |                                font=('Segoe UI', 20, 'bold'),
246 |                                bg='#2b2b2b',
247 |                                fg='#569cd6')
248 |         title_label.pack(pady=10)
249 |
250 |         subtitle_label = tk.Label(header_frame,
251 |                                   text="Crea PDF da progetti e ricrea progetti da PDF - Supporta tutti i tipi di
252 |                                   font=('Segoe UI', 12),
253 |                                   bg='#2b2b2b',
254 |                                   fg='#9cdcf6')
255 |         subtitle_label.pack(pady=5)
256 |
257 |         # Notebook per le schede
258 |         self.notebook = ttk.Notebook(self.root)
259 |         self.notebook.pack(fill='both', expand=True, padx=15, pady=10)
260 |
261 |         # Creazione delle schede
262 |         self.create_pdf_frame = ttk.Frame(self.notebook, style='Custom.TFrame')
263 |         self.recreate_frame = ttk.Frame(self.notebook, style='Custom.TFrame')
264 |         self.exclusions_frame = ttk.Frame(self.notebook, style='Custom.TFrame')
265 |         self.settings_frame = ttk.Frame(self.notebook, style='Custom.TFrame')

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266 |
267 |     self.notebook.add(self.create_pdf_frame, text="? Crea PDF da Progetto")
268 |     self.notebook.add(self.recreate_frame, text="? Ricrea Progetto da PDF")
269 |     self.notebook.add(self.exclusions_frame, text="? Gestione Esclusioni")
270 |     self.notebook.add(self.settings_frame, text="?? Impostazioni & Info")
271 |
272 |     self.setup_create_pdf_tab()
273 |     self.setup_recreate_tab()
274 |     self.setup_exclusions_tab()
275 |     self.setup_settings_tab()
276 |
277 |     # Status bar
278 |     self.setup_status_bar()
279 |
280 | # ... (tutto il resto del codice dell'interfaccia rimane uguale) ...
281 |
282 | def create_pdf_thread(self):
283 |     """Thread per la creazione del PDF"""
284 |     try:
285 |         self.log_create("? Inizio creazione PDF...")
286 |         self.log_create(f"? Progetto: {self.project_path.get()}")
287 |         self.log_create(f"? Output: {self.output_pdf.get()}")
288 |
289 |         # Prepara le esclusioni dalle text area
290 |         custom_exclusions = {}
291 |
292 |         dirs_text = self.dirs_text.get(1.0, tk.END).strip()
293 |         if dirs_text:
294 |             dirs = [d.strip() for d in dirs_text.split(',') if d.strip()]
295 |             custom_exclusions['dirs'] = dirs
296 |             self.log_create(f"? Cartelle escluse: {len(dirs)} elementi")
297 |
298 |         files_text = self.files_text.get(1.0, tk.END).strip()
299 |         if files_text:
300 |             files = [f.strip() for f in files_text.split(',') if f.strip()]
301 |             custom_exclusions['files'] = files
302 |             self.log_create(f"? File esclusi: {len(files)} elementi")
303 |
304 |         extensions_text = self.extensions_text.get(1.0, tk.END).strip()
305 |         if extensions_text:
306 |             exts = [e.strip() for e in extensions_text.split(',') if e.strip()]
307 |             custom_exclusions['extensions'] = exts
308 |             self.log_create(f"? Estensioni escluse: {len(exts)} elementi")
309 |
310 |         # Crea il PDF
311 |         converter = PythonProjectToPDF()
312 |         files_processed = converter.create_pdf(
313 |             self.project_path.get(),
314 |             self.output_pdf.get(),
315 |             custom_exclusions
316 |         )
317 |
318 |         self.log_create(f"? PDF creato con successo! File processati: {files_processed}")
319 |         self.update_status("? PDF creato con successo!")
320 |         messagebox.showinfo("Successo", f"PDF creato con successo!\nFile processati: {files_processed}")
321 |
322 |     except Exception as e:
323 |         error_msg = f"? Errore durante la creazione del PDF: {str(e)}"
324 |         self.log_create(error_msg)
325 |         self.update_status("? Errore nella creazione PDF")
326 |         messagebox.showerror("Errore", f"Errore durante la creazione del PDF:\n{str(e)}")
327 |     finally:
328 |         self.create_pdf_btn.config(state='normal')
329 |
330 | # ... (il resto del codice rimane invariato) ...
331 |
332 | def main():

```

```
333 |     root = tk.Tk()
334 |     app = AdvancedPDFProjectManager(root)
335 |     root.mainloop()
336 |
337 | if __name__ == "__main__":
338 |     main()
```


File: pdf_to_folder.py

```
1 | #File: pdf_to_folder.py
2 | import re
3 | import os
4 | import PyPDF2
5 | from pathlib import Path
6 | import datetime
7 |
8 | class UniversalPDFToProject:
9 |     def __init__(self):
10 |         self.files_data = {}
11 |         self.metadata = {}
12 |
13 |     def extract_pdf_content(self, pdf_path):
14 |         """Estrae il contenuto dal PDF con gestione errori migliorata"""
15 |         try:
16 |             with open(pdf_path, 'rb') as file:
17 |                 pdf_reader = PyPDF2.PdfReader(file)
18 |                 full_text = ""
19 |
20 |                 for page_num, page in enumerate(pdf_reader.pages):
21 |                     page_text = page.extract_text()
22 |                     full_text += page_text + "\n"
23 |
24 |                 return full_text
25 |         except Exception as e:
26 |             print(f"Errore nell'estrazione del PDF: {e}")
27 |             return None
28 |
29 |     def parse_files_from_pdf(self, pdf_text):
30 |         """Analizza il PDF e estrae tutti i file con il loro contenuto"""
31 |         lines = pdf_text.split('\n')
32 |         current_file = None
33 |         current_content = []
34 |         reading_file_content = False
35 |
36 |         for line in lines:
37 |             line = line.strip()
38 |
39 |             # Cerca l'inizio di un nuovo file
40 |             if line.startswith('File:'):
41 |                 # Salva il file precedente se esiste
42 |                 if current_file and current_content:
43 |                     # Unisci il contenuto e pulisci
44 |                     full_content = '\n'.join(current_content).strip()
45 |                     if full_content:
46 |                         self.files_data[current_file] = full_content
47 |
48 |                 # Inizia un nuovo file
49 |                 file_path = line[5:].strip() # Rimuove "File:"
50 |                 current_file = file_path
51 |                 current_content = []
52 |                 reading_file_content = True
53 |                 continue
54 |
55 |             # Se stiamo leggendo il contenuto di un file e non è una linea di metadati
56 |             if (reading_file_content and current_file and
57 |                 line and
58 |                 not line.startswith('DOCUMENTAZIONE') and
59 |                 not line.startswith('Cartelle') and
60 |                 not line.startswith('File') and
61 |                 not line.startswith('Estensioni') and
62 |                 not line.startswith('Progetto:') and
63 |                 not line.startswith('Cartella:')):
```

```

65 |         # Gestisce le linee numerate (pattern: "123 | contenuto")
66 |         line_match = re.match(r'^\s*(\d+)\s*\|\s*(.*)$', line)
67 |         if line_match:
68 |             content_part = line_match.group(2)
69 |             current_content.append(content_part)
70 |         else:
71 |             # Se non è una linea numerata ma abbiamo contenuto, potrebbe essere continuazione
72 |             if current_content and not re.match(r'^\s*\d+\s*\|', line):
73 |                 current_content[-1] += ' ' + line
74 |             elif line: # Nuova linea di contenuto
75 |                 current_content.append(line)
76 |
77 |     # Salva l'ultimo file
78 |     if current_file and current_content:
79 |         full_content = '\n'.join(current_content).strip()
80 |         if full_content:
81 |             self.files_data[current_file] = full_content
82 |
83 |     return self.files_data
84 |
85 | def clean_file_content(self, content, file_extension):
86 |     """Pulisce il contenuto in base al tipo di file"""
87 |     if not content:
88 |         return content
89 |
90 |     # Rimuove i tag [troncato] se presenti
91 |     content = content.replace('... [troncato]', '')
92 |
93 |     # Gestione specifica per diversi tipi di file
94 |     if file_extension in ['.py', '.js', '.java', '.c', '.cpp', '.h', '.cs']:
95 |         # Linguaggi di programmazione - corregge l'indentazione
96 |         content = self.fix_code_indentation(content)
97 |     elif file_extension in ['.html', '.xml', '.svg']:
98 |         # File markup - corregge la formattazione
99 |         content = self.fix_markup_formatting(content)
100 |     elif file_extension in ['.json']:
101 |         # JSON - tenta di correggere la formattazione
102 |         content = self.fix_json_formatting(content)
103 |     elif file_extension in ['.css', '.scss', '.less']:
104 |         # CSS - corregge la formattazione
105 |         content = self.fix_css_formatting(content)
106 |     elif file_extension in ['.md', '.rst', '.txt']:
107 |         # Documentazione - pulizia base
108 |         content = self.fix_text_formatting(content)
109 |
110 |     return content
111 |
112 | def fix_code_indentation(self, content):
113 |     """Corregge l'indentazione per codice sorgente"""
114 |     lines = content.split('\n')
115 |     fixed_lines = []
116 |     indent_level = 0
117 |     in_multiline_string = False
118 |     string_delimiter = None
119 |
120 |     for line in lines:
121 |         stripped = line.strip()
122 |         if not stripped:
123 |             fixed_lines.append('')
124 |             continue
125 |
126 |         # Gestione stringhe multilinea
127 |         if not in_multiline_string:
128 |             if '"""' in stripped or "'" in stripped:
129 |                 in_multiline_string = True
130 |                 string_delimiter = '"""' if '"""' in stripped else "'"
131 |             else:

```

```

132 |         if string_delimiter in stripped:
133 |             in_multiline_string = False
134 |
135 |     if in_multiline_string:
136 |         fixed_lines.append(' ' * indent_level + stripped)
137 |         continue
138 |
139 |     # Calcola indentazione per codice
140 |     line_indent = 0
141 |
142 |     # Riduci indentazione per certe keyword
143 |     if (stripped.startswith(('return', 'break', 'continue', 'pass')) or
144 |         stripped in ('else:', 'elif:', 'except:', 'finally:')):
145 |         line_indent = max(0, indent_level - 1)
146 |     else:
147 |         line_indent = indent_level
148 |
149 |     fixed_lines.append(' ' * line_indent + stripped)
150 |
151 |     # Aumenta indentazione dopo certe strutture
152 |     if (stripped.endswith(':') and
153 |         not stripped.startswith('#') and
154 |         not any(stripped.startswith(kw) for kw in ['import', 'from', 'def ', 'class '])):
155 |         indent_level += 1
156 |     # Riduci indentazione per fine blocco implicito
157 |     elif stripped in ['return', 'break', 'continue', 'pass']:
158 |         indent_level = max(0, indent_level - 1)
159 |
160 |     return '\n'.join(fixed_lines)
161 |
162 | def fix_markup_formatting(self, content):
163 |     """Corregge la formattazione per file markup (HTML, XML, etc.)"""
164 |     # Unisce tag che potrebbero essere stati spezzati
165 |     content = re.sub(r'<\s*/\s*(\w+)\s*>', r'</\1>', content)
166 |     content = re.sub(r'<(\w+)([>]*)>\s*<\s*/\s*\1\s*>', r'<\1\2></\1>', content)
167 |
168 |     lines = content.split('\n')
169 |     fixed_lines = []
170 |     indent_level = 0
171 |
172 |     for line in lines:
173 |         stripped = line.strip()
174 |         if not stripped:
175 |             fixed_lines.append('')
176 |             continue
177 |
178 |         # Gestione tag di chiusura
179 |         if stripped.startswith('<\/'):
180 |             indent_level = max(0, indent_level - 1)
181 |
182 |         fixed_lines.append(' ' * indent_level + stripped)
183 |
184 |         # Gestione tag di apertura (non auto-chiusi)
185 |         if (stripped.startswith('<') and
186 |             not stripped.startswith('<\/') and
187 |             not stripped.endswith('<\/>') and
188 |             not '<!--' in stripped and
189 |             not stripped.endswith('-->')):
190 |             indent_level += 1
191 |
192 |     return '\n'.join(fixed_lines)
193 |
194 | def fix_json_formatting(self, content):
195 |     """Corregge la formattazione JSON"""
196 |     try:
197 |         # Tenta di parsare e riformattare il JSON
198 |         import json

```

```

199 |         parsed = json.loads(content)
200 |         return json.dumps(parsed, indent=2, ensure_ascii=False)
201 |     except:
202 |         # Se il parsing fallisce, fa del suo meglio
203 |         content = re.sub(r'\s*', ' ', content)
204 |         content = re.sub(r':\s*', ': ', content)
205 |         return content
206 |
207 |     def fix_css_formatting(self, content):
208 |         """Corregge la formattazione CSS"""
209 |         lines = content.split('\n')
210 |         fixed_lines = []
211 |         in_rule = False
212 |
213 |         for line in lines:
214 |             stripped = line.strip()
215 |             if not stripped:
216 |                 fixed_lines.append('')
217 |                 continue
218 |
219 |             if stripped.endswith('{'):
220 |                 fixed_lines.append(stripped)
221 |                 in_rule = True
222 |             elif stripped == '}':
223 |                 fixed_lines.append(stripped)
224 |                 in_rule = False
225 |             elif in_rule:
226 |                 fixed_lines.append(' ' + stripped)
227 |             else:
228 |                 fixed_lines.append(stripped)
229 |
230 |         return '\n'.join(fixed_lines)
231 |
232 |     def fix_text_formatting(self, content):
233 |         """Corregge la formattazione per file di testo"""
234 |         # Unisce paragrafi spezzati
235 |         lines = content.split('\n')
236 |         fixed_lines = []
237 |         current_paragraph = []
238 |
239 |         for line in lines:
240 |             stripped = line.strip()
241 |             if not stripped:
242 |                 if current_paragraph:
243 |                     fixed_lines.append(' '.join(current_paragraph))
244 |                     current_paragraph = []
245 |                 fixed_lines.append('')
246 |             elif stripped.startswith(('#', '-', '*', '>')): # Mantiene formattazione markdown
247 |                 if current_paragraph:
248 |                     fixed_lines.append(' '.join(current_paragraph))
249 |                     current_paragraph = []
250 |                 fixed_lines.append(stripped)
251 |             else:
252 |                 current_paragraph.append(stripped)
253 |
254 |         if current_paragraph:
255 |             fixed_lines.append(' '.join(current_paragraph))
256 |
257 |         return '\n'.join(fixed_lines)
258 |
259 |     def get_file_extension(self, file_path):
260 |         """Restituisce l'estensione del file"""
261 |         path = Path(file_path)
262 |         return path.suffix.lower()
263 |
264 |     def recreate_project_structure(self, pdf_path, output_folder):
265 |         """Ricrea l'intera struttura del progetto dal PDF"""

```

```

266 |         print(f"? Leggendo il PDF: {pdf_path}")
267 |         pdf_text = self.extract_pdf_content(pdf_path)
268 |
269 |         if not pdf_text:
270 |             print("? Impossibile leggere il PDF")
271 |             return False
272 |
273 |         print("? Analizzando il contenuto del PDF...")
274 |         files_data = self.parse_files_from_pdf(pdf_text)
275 |
276 |         if not files_data:
277 |             print("? Nessun file trovato nel PDF")
278 |             return False
279 |
280 |         print(f"? Trovati {len(files_data)} file nel PDF")
281 |
282 |         output_path = Path(output_folder)
283 |         output_path.mkdir(parents=True, exist_ok=True)
284 |
285 |         files_created = 0
286 |         errors = []
287 |
288 |         for file_path, raw_content in files_data.items():
289 |             try:
290 |                 full_path = output_path / file_path
291 |
292 |                 # Crea le directory necessarie
293 |                 full_path.parent.mkdir(parents=True, exist_ok=True)
294 |
295 |                 # Ottieni l'estensione del file
296 |                 file_extension = self.get_file_extension(file_path)
297 |
298 |                 # Pulisci il contenuto in base al tipo di file
299 |                 cleaned_content = self.clean_file_content(raw_content, file_extension)
300 |
301 |                 # Scrivi il file
302 |                 with open(full_path, 'w', encoding='utf-8') as f:
303 |                     f.write(cleaned_content)
304 |
305 |                 files_created += 1
306 |                 print(f"? Creato: {file_path}")
307 |
308 |             except Exception as e:
309 |                 error_msg = f"? Errore con {file_path}: {str(e)}"
310 |                 errors.append(error_msg)
311 |                 print(error_msg)
312 |
313 |         # Scrivi un report di ricostruzione
314 |         self.write_reconstruction_report(output_path, files_created, errors, files_data)
315 |
316 |         print(f"\n? Ricostruzione completata!")
317 |         print(f"? File creati: {files_created}")
318 |         print(f"? Errori: {len(errors)}")
319 |         print(f"? Output: {output_path.absolute()}")
320 |
321 |         if errors:
322 |             print("\nErrori riscontrati:")
323 |             for error in errors:
324 |                 print(f"  - {error}")
325 |
326 |         return True
327 |
328 |     def write_reconstruction_report(self, output_path, files_created, errors, files_data):
329 |         """Scrive un report dettagliato della ricostruzione"""
330 |         report_content = f"""RICOSTRUZIONE PROGETTO DA PDF
331 | =====
332 |

```

```

333 | Data ricostruzione: {datetime.datetime.now().strftime("%Y-%m-%d %H:%M:%S")}
334 | File creati con successo: {files_created}
335 | Errori riscontrati: {len(errors)}
336 |
337 | DETTAGLIO FILE RICOSTRUITI:
338 | -----
339 | """
340 |
341 |         for file_path in sorted(files_data.keys()):
342 |             file_extension = self.get_file_extension(file_path)
343 |             content_length = len(files_data[file_path])
344 |             report_content += f"- {file_path} ({file_extension}, {content_length} caratteri)\n"
345 |
346 |         if errors:
347 |             report_content += f"\nERRORI RISCONTRATI:\n-----\n"
348 |             for error in errors:
349 |                 report_content += f"- {error}\n"
350 |
351 |             report_content += f"""
352 | STATISTICHE:
353 | -----
354 | File totali nel PDF: {len(files_data)}
355 | File creati: {files_created}
356 | Success rate: {(files_created/len(files_data))*100:.1f}%
357 |
358 | ESTENSIONI FILE RICOSTRUITE:
359 | -----
360 | """
361 |
362 |         # Calcola statistiche per estensione
363 |         extensions = {}
364 |         for file_path in files_data.keys():
365 |             ext = self.get_file_extension(file_path)
366 |             extensions[ext] = extensions.get(ext, 0) + 1
367 |
368 |         for ext, count in sorted(extensions.items()):
369 |             report_content += f"- {ext or 'Nessuna'}: {count} file\n"
370 |
371 |         with open(output_path / "RICOSTRUZIONE_REPORT.txt", 'w', encoding='utf-8') as f:
372 |             f.write(report_content)
373 |
374 | def main():
375 |     import argparse
376 |
377 |     parser = argparse.ArgumentParser(
378 |         description='Ricrea un intero progetto da PDF - Supporta qualsiasi tipo di file di testo/codice'
379 |     )
380 |     parser.add_argument('pdf_path', help='Percorso del PDF sorgente')
381 |     parser.add_argument('output_folder', help='Cartella di destinazione per il progetto ricostruito')
382 |
383 |     args = parser.parse_args()
384 |
385 |     if not os.path.exists(args.pdf_path):
386 |         print(f"? Errore: Il file PDF '{args.pdf_path}' non esiste.")
387 |         return
388 |
389 |     print("?? Ricostruzione progetto da PDF")
390 |     print("=" * 50)
391 |
392 |     recreator = UniversalPDFToProject()
393 |     success = recreator.recreate_project_structure(args.pdf_path, args.output_folder)
394 |
395 |     if success:
396 |         print("\n? Ricostruzione completata con successo!")
397 |         print(f"? Il progetto è stato ricreato in: {args.output_folder}")
398 |     else:
399 |         print("\n? Ricostruzione fallita!")

```

```
400 |
401 | if __name__ == "__main__":
402 |     # Esempio di utilizzo diretto
403 |     if len(os.sys.argv) == 1:
404 |         print("Ricostruzione progetto da PDF")
405 |         print("=" * 40)
406 |
407 |         pdf_file = input("Inserisci il percorso del PDF: ").strip()
408 |         output_dir = input("Inserisci la cartella di output: ").strip()
409 |
410 |         if pdf_file and output_dir:
411 |             if os.path.exists(pdf_file):
412 |                 recreator = UniversalPDFToProject()
413 |                 recreator.recreate_project_structure(pdf_file, output_dir)
414 |             else:
415 |                 print("? Il file PDF specificato non esiste.")
416 |         else:
417 |             print("? Devi specificare entrambi i percorsi.")
418 |     else:
419 |         main()
```

File: syncroNet.py

```
1 | #File: syncroNet.py
2 | import tkinter as tk
3 | from tkinter import ttk, filedialog, messagebox, scrolledtext
4 | import threading
5 | import os
6 | from pathlib import Path
7 | import sys
8 | import webbrowser
9 | from datetime import datetime
10 |
11 | # Importa le classi dai tuoi file
12 | from folder_to_pdf import PythonProjectToPDF
13 | from pdf_to_folder import UniversalPDFToProject
14 |
15 |
16 | class AdvancedPDFProjectManager:
17 |     def __init__(self, root):
18 |         self.root = root
19 |         self.root.title("? Advanced PDF Project Manager")
20 |         self.root.geometry("1000x800")
21 |         self.root.configure(bg="#2b2b2b")
22 |
23 |         # Variabili principali
24 |         self.project_path = tk.StringVar()
25 |         self.output_pdf = tk.StringVar(value="project_documentation.pdf")
26 |         self.pdf_to_read = tk.StringVar()
27 |         self.reconstruction_output = tk.StringVar()
28 |
29 |         # Esclusioni predefinite complete
30 |         self.default_excluded_dirs = {
31 |             'venv', '.venv', '__pycache__', '.git', '.vscode', '.idea',
32 |             'node_modules', 'build', 'dist', 'models2', '.continue',
33 |             '.vs', 'target', 'out', 'bin', 'obj', 'packages', '.gradle',
34 |             '.settings', '.metadata', '.recommenders', 'gradle', 'jvm'
35 |         }
36 |
37 |         self.default_excluded_files = {
38 |             'config.py', 'settings.py', 'local_settings.py', '.env',
39 |             '.gitignore', '.gitattributes', '.env.local', '.env.production',
40 |             'package-lock.json', 'yarn.lock', 'thumbs.db', '.DS_Store',
41 |             'desktop.ini', '*.tmp', '*.temp'
42 |         }
43 |
44 |         self.default_excluded_extensions = {
45 |             '.pyc', '.pyo', '.pyd', '.so', '.dll', '.exe', '.safetensors',
46 |             '.bin', '.jpg', '.jpeg', '.png', '.gif', '.bmp', '.tiff', '.webp',
47 |             '.ico', '.svg', '.pdf', '.doc', '.docx', '.xls', '.xlsx', '.ppt',
48 |             '.pptx', '.zip', '.rar', '.7z', '.tar', '.gz', '.mp4', '.avi',
49 |             '.mkv', '.mov', '.mp3', '.wav', '.flac', '.ogg', '.db', '.sqlite',
50 |             '.sqlite3', '.mdb', '.accdb', '.pdb', '.idb', '.class', '.jar',
51 |             '.war', '.ear'
52 |         }
53 |
54 |         # Variabili per le esclusioni
55 |         self.exclude_dirs_var = tk.StringVar(value=", ".join(sorted(self.default_excluded_dirs)))
56 |         self.exclude_files_var = tk.StringVar(value=", ".join(sorted(self.default_excluded_files)))
57 |         self.exclude_extensions_var = tk.StringVar(value=", ".join(sorted(self.default_excluded_extensions)))
58 |
59 |         self.setup_styles()
60 |         self.setup_ui()
61 |
62 |     def setup_styles(self):
63 |         """Configura gli stili per l'interfaccia"""
64 |         style = ttk.Style()
```



```

65 |
66 |     # Tema per ttk
67 |     style.configure('Custom.TFrame', background='#2b2b2b')
68 |     style.configure('Custom.TLabel', background='#2b2b2b', foreground='#ffffff')
69 |     style.configure('Custom.TButton', background='#0e639c', foreground='#ffffff')
70 |     style.configure('Success.TButton', background='#388a34', foreground='#ffffff')
71 |     style.configure('Section.TLabelframe', background='#2b2b2b', foreground='#ce9178')
72 |     style.configure('Section.TLabelframe.Label', background='#2b2b2b', foreground='#ce9178')
73 |
74 | def setup_ui(self):
75 |     """Configura l'interfaccia utente principale"""
76 |     # Header con titolo
77 |     header_frame = ttk.Frame(self.root, style='Custom.TFrame')
78 |     header_frame.pack(fill='x', padx=15, pady=10)
79 |
80 |     # Usiamo tk.Label invece di ttk.Label per avere più controllo sullo stile
81 |     title_label = tk.Label(header_frame,
82 |                             text="? Advanced PDF Project Manager",
83 |                             font=('Segoe UI', 20, 'bold'),
84 |                             bg='#2b2b2b',
85 |                             fg='#569cd6')
86 |     title_label.pack(pady=10)
87 |
88 |     subtitle_label = tk.Label(header_frame,
89 |                               text="Crea PDF da progetti e ricrea progetti da PDF - Supporta tutti i tipi di
90 |                               font=('Segoe UI', 12),
91 |                               bg='#2b2b2b',
92 |                               fg='#9cdcfe')
93 |     subtitle_label.pack(pady=5)
94 |
95 |     # Notebook per le schede
96 |     self.notebook = ttk.Notebook(self.root)
97 |     self.notebook.pack(fill='both', expand=True, padx=15, pady=10)
98 |
99 |     # Creazione delle schede
100 |     self.create_pdf_frame = ttk.Frame(self.notebook, style='Custom.TFrame')
101 |     self.recreate_frame = ttk.Frame(self.notebook, style='Custom.TFrame')
102 |     self.exclusions_frame = ttk.Frame(self.notebook, style='Custom.TFrame')
103 |     self.settings_frame = ttk.Frame(self.notebook, style='Custom.TFrame')
104 |
105 |     self.notebook.add(self.create_pdf_frame, text="? Crea PDF da Progetto")
106 |     self.notebook.add(self.recreate_frame, text="? Ricrea Progetto da PDF")
107 |     self.notebook.add(self.exclusions_frame, text="? Gestione Esclusioni")
108 |     self.notebook.add(self.settings_frame, text="?? Impostazioni & Info")
109 |
110 |     self.setup_create_pdf_tab()
111 |     self.setup_recreate_tab()
112 |     self.setup_exclusions_tab()
113 |     self.setup_settings_tab()
114 |
115 |     # Status bar
116 |     self.setup_status_bar()
117 |
118 | def setup_create_pdf_tab(self):
119 |     """Configura la scheda per creare PDF da progetto"""
120 |     main_frame = ttk.Frame(self.create_pdf_frame, style='Custom.TFrame')
121 |     main_frame.pack(fill='both', expand=True, padx=10, pady=10)
122 |
123 |     # Sezione selezione progetto
124 |     project_section = ttk.LabelFrame(main_frame, text="? Selezione Progetto", style='Section.TLabelframe')
125 |     project_section.pack(fill='x', pady=10)
126 |
127 |     project_label = tk.Label(project_section, text="Cartella del progetto:",
128 |                              font=('Segoe UI', 10), bg='#2b2b2b', fg='#ffffff')
129 |     project_label.grid(row=0, column=0, sticky='w', pady=8, padx=10)
130 |
131 |     project_entry = tk.Entry(project_section, textvariable=self.project_path,

```

```

132 |                 width=70, font=('Segoe UI', 9),
133 |                 bg='#3c3c3c', fg='ffffff', insertbackground='ffffff')
134 | project_entry.grid(row=0, column=1, padx=8, pady=8, sticky='ew')
135 |
136 | browse_project_btn = ttk.Button(project_section, text="Sfoglia ?",
137 |                                command=self.browse_project, width=15)
138 | browse_project_btn.grid(row=0, column=2, padx=8, pady=8)
139 |
140 | # Sezione output PDF
141 | output_section = ttk.LabelFrame(main_frame, text="? Output PDF", style='Section.TLabelframe')
142 | output_section.pack(fill='x', pady=10)
143 |
144 | output_label = tk.Label(output_section, text="File PDF di output:",
145 |                        font=('Segoe UI', 10), bg='#2b2b2b', fg='ffffff')
146 | output_label.grid(row=0, column=0, sticky='w', pady=8, padx=10)
147 |
148 | output_entry = tk.Entry(output_section, textvariable=self.output_pdf,
149 |                        width=70, font=('Segoe UI', 9),
150 |                        bg='#3c3c3c', fg='ffffff', insertbackground='ffffff')
151 | output_entry.grid(row=0, column=1, padx=8, pady=8, sticky='ew')
152 |
153 | browse_output_btn = ttk.Button(output_section, text="Sfoglia ?",
154 |                                command=self.browse_output_pdf, width=15)
155 | browse_output_btn.grid(row=0, column=2, padx=8, pady=8)
156 |
157 | # Sezione log
158 | log_section = ttk.LabelFrame(main_frame, text="? Log di Creazione", style='Section.TLabelframe')
159 | log_section.pack(fill='both', expand=True, pady=10)
160 |
161 | self.create_log = scrolledtext.ScrolledText(
162 |     log_section,
163 |     height=15,
164 |     width=90,
165 |     font=('Consolas', 9),
166 |     bg='#1e1e1e',
167 |     fg='#d4d4d4',
168 |     insertbackground='ffffff',
169 |     selectbackground='#264f78'
170 | )
171 | self.create_log.pack(fill='both', expand=True, padx=10, pady=10)
172 |
173 | # Pulsanti azione
174 | button_frame = ttk.Frame(main_frame, style='Custom.TFrame')
175 | button_frame.pack(fill='x', pady=15)
176 |
177 | clear_log_btn = ttk.Button(button_frame, text="? Pulisci Log",
178 |                            command=self.clear_create_log)
179 | clear_log_btn.pack(side='left', padx=5)
180 |
181 | export_log_btn = ttk.Button(button_frame, text="? Esporta Log",
182 |                             command=self.export_create_log)
183 | export_log_btn.pack(side='left', padx=5)
184 |
185 | stats_btn = ttk.Button(button_frame, text="? Statistiche Progetto",
186 |                        command=self.show_project_stats)
187 | stats_btn.pack(side='left', padx=5)
188 |
189 | self.create_pdf_btn = ttk.Button(
190 |     button_frame,
191 |     text="? Crea PDF",
192 |     command=self.start_create_pdf,
193 |     style='Success.TButton',
194 |     width=20
195 | )
196 | self.create_pdf_btn.pack(side='right', padx=5)
197 |
198 | def setup_recreate_tab(self):

```

```

199 |     ""Configura la scheda per ricreare progetto da PDF""
200 |     main_frame = ttk.Frame(self.recreate_frame, style='Custom.TFrame')
201 |     main_frame.pack(fill='both', expand=True, padx=10, pady=10)
202 |
203 |     # Sezione PDF sorgente
204 |     pdf_section = ttk.LabelFrame(main_frame, text="? PDF Sorgente", style='Section.TLabelframe')
205 |     pdf_section.pack(fill='x', pady=10)
206 |
207 |     pdf_label = tk.Label(pdf_section, text="File PDF:",
208 |                          font=('Segoe UI', 10), bg='#2b2b2b', fg='ffffff')
209 |     pdf_label.grid(row=0, column=0, sticky='w', pady=8, padx=10)
210 |
211 |     pdf_entry = tk.Entry(pdf_section, textvariable=self.pdf_to_read,
212 |                          width=70, font=('Segoe UI', 9),
213 |                          bg='#3c3c3c', fg='ffffff', insertbackground='ffffff')
214 |     pdf_entry.grid(row=0, column=1, padx=8, pady=8, sticky='ew')
215 |
216 |     browse_pdf_btn = ttk.Button(pdf_section, text="Sfogliala ?",
217 |                                command=self.browse_pdf, width=15)
218 |     browse_pdf_btn.grid(row=0, column=2, padx=8, pady=8)
219 |
220 |     # Sezione output progetto
221 |     output_section = ttk.LabelFrame(main_frame, text="? Output Progetto", style='Section.TLabelframe')
222 |     output_section.pack(fill='x', pady=10)
223 |
224 |     output_label = tk.Label(output_section, text="Cartella di output:",
225 |                             font=('Segoe UI', 10), bg='#2b2b2b', fg='ffffff')
226 |     output_label.grid(row=0, column=0, sticky='w', pady=8, padx=10)
227 |
228 |     output_entry = tk.Entry(output_section, textvariable=self.reconstruction_output,
229 |                             width=70, font=('Segoe UI', 9),
230 |                             bg='#3c3c3c', fg='ffffff', insertbackground='ffffff')
231 |     output_entry.grid(row=0, column=1, padx=8, pady=8, sticky='ew')
232 |
233 |     browse_output_btn = ttk.Button(output_section, text="Sfogliala ?",
234 |                                   command=self.browse_reconstruction_output, width=15)
235 |     browse_output_btn.grid(row=0, column=2, padx=8, pady=8)
236 |
237 |     # Sezione opzioni
238 |     options_section = ttk.LabelFrame(main_frame, text="?? Opzioni Ricostruzione", style='Section.TLabelframe')
239 |     options_section.pack(fill='x', pady=10)
240 |
241 |     self.auto_open_folder = tk.BooleanVar(value=True)
242 |     self.create_report = tk.BooleanVar(value=True)
243 |     self.overwrite_existing = tk.BooleanVar(value=False)
244 |
245 |     auto_open_cb = tk.Checkbutton(options_section, text="Apri cartella output automaticamente",
246 |                                   variable=self.auto_open_folder, font=('Segoe UI', 9),
247 |                                   bg='#2b2b2b', fg='ffffff', selectcolor='#3c3c3c')
248 |     auto_open_cb.grid(row=0, column=0, sticky='w', pady=4, padx=10)
249 |
250 |     report_cb = tk.Checkbutton(options_section, text="Crea report di ricostruzione",
251 |                                variable=self.create_report, font=('Segoe UI', 9),
252 |                                bg='#2b2b2b', fg='ffffff', selectcolor='#3c3c3c')
253 |     report_cb.grid(row=0, column=1, sticky='w', pady=4, padx=10)
254 |
255 |     overwrite_cb = tk.Checkbutton(options_section, text="Sovrascrivi file esistenti",
256 |                                   variable=self.overwrite_existing, font=('Segoe UI', 9),
257 |                                   bg='#2b2b2b', fg='ffffff', selectcolor='#3c3c3c')
258 |     overwrite_cb.grid(row=0, column=2, sticky='w', pady=4, padx=10)
259 |
260 |     # Sezione log
261 |     log_section = ttk.LabelFrame(main_frame, text="? Log di Ricostruzione", style='Section.TLabelframe')
262 |     log_section.pack(fill='both', expand=True, pady=10)
263 |
264 |     self.recreate_log = scrolledtext.ScrolledText(
265 |         log_section,

```

```

266 |         height=15,
267 |         width=90,
268 |         font=('Consolas', 9),
269 |         bg='#1e1e1e',
270 |         fg='#d4d4d4',
271 |         insertbackground='#ffffff',
272 |         selectbackground='#264f78'
273 |     )
274 |     self.recreate_log.pack(fill='both', expand=True, padx=10, pady=10)
275 |
276 |     # Pulsanti azione
277 |     button_frame = ttk.Frame(main_frame, style='Custom.TFrame')
278 |     button_frame.pack(fill='x', pady=15)
279 |
280 |     clear_log_btn = ttk.Button(button_frame, text="? Pulisci Log",
281 |                               command=self.clear_recreate_log)
282 |     clear_log_btn.pack(side='left', padx=5)
283 |
284 |     export_log_btn = ttk.Button(button_frame, text="? Esporta Log",
285 |                                command=self.export_recreate_log)
286 |     export_log_btn.pack(side='left', padx=5)
287 |
288 |     open_folder_btn = ttk.Button(button_frame, text="? Apri Cartella Output",
289 |                                  command=self.open_output_folder)
290 |     open_folder_btn.pack(side='left', padx=5)
291 |
292 |     self.recreate_btn = ttk.Button(
293 |         button_frame,
294 |         text="? Ricrea Progetto",
295 |         command=self.start_recreate_project,
296 |         style='Success.TButton',
297 |         width=20
298 |     )
299 |     self.recreate_btn.pack(side='right', padx=5)
300 |
301 |     def setup_exclusions_tab(self):
302 |         """Configura la scheda per gestire le esclusioni"""
303 |         main_frame = ttk.Frame(self.exclusions_frame, style='Custom.TFrame')
304 |         main_frame.pack(fill='both', expand=True, padx=10, pady=10)
305 |
306 |         # Descrizione
307 |         desc_section = ttk.LabelFrame(main_frame, text="?? Informazioni Esclusioni", style='Section.TLabelframe')
308 |         desc_section.pack(fill='x', pady=10)
309 |
310 |         desc_text = """
311 | Queste esclusioni vengono applicate automaticamente quando crei un PDF da un progetto.
312 | I file e cartelle esclusi non verranno inclusi nel PDF generato.
313 |
314 | ? Cartelle: Directory intere da escludere (es: venv, node_modules)
315 | ? File: Nomi specifici di file da escludere (es: .env, config.py)
316 | ? Estensioni: Tipi di file da escludere per estensione (es: .jpg, .exe)
317 |
318 | Separare i valori con virgole.
319 | """
320 |
321 |         desc_label = tk.Label(desc_section, text=desc_text, justify='left',
322 |                               font=('Segoe UI', 9), bg='#2b2b2b', fg='#d4d4d4')
323 |         desc_label.pack(pady=10, padx=10, anchor='w')
324 |
325 |         # Sezione cartelle escluse
326 |         dirs_section = ttk.LabelFrame(main_frame, text="? Cartelle Escluse", style='Section.TLabelframe')
327 |         dirs_section.pack(fill='x', pady=10)
328 |
329 |         dirs_label = tk.Label(dirs_section, text="Cartelle da escludere:",
330 |                               font=('Segoe UI', 10), bg='#2b2b2b', fg='#ffffff')
331 |         dirs_label.pack(anchor='w', padx=10, pady=5)
332 |

```



```

400 |         import_btn.pack(side='left', padx=5)
401 |
402 |     def setup_settings_tab(self):
403 |         """Configura la scheda impostazioni e informazioni"""
404 |         main_frame = ttk.Frame(self.settings_frame, style='Custom.TFrame')
405 |         main_frame.pack(fill='both', expand=True, padx=10, pady=10)
406 |
407 |         # Informazioni applicazione
408 |         info_section = ttk.LabelFrame(main_frame, text="?? Informazioni Applicazione", style='Section.TLabelframe')
409 |         info_section.pack(fill='x', pady=10)
410 |
411 |         info_text = """
412 | ? Advanced PDF Project Manager - Versione 3.0
413 |
414 | Funzionalità Principali:
415 | ? ? Crea PDF da progetti (supporta tutti i tipi di file di testo/codice)
416 | ? ? Ricrea progetti completi da PDF
417 | ? ? Gestione avanzata delle esclusioni (file binari, immagini, etc.)
418 | ? ? Interfaccia moderna con tema scuro
419 | ? ? Operazioni in background non bloccanti
420 |
421 | Supporta:
422 | ? Python, JavaScript, Java, C++, C#, HTML, CSS, JSON, XML, Markdown
423 | ? Tutti i linguaggi di programmazione e file di testo
424 | ? Strutture progetto complesse con sottocartelle
425 |
426 | Tecnologie:
427 | ? Python 3.8+
428 | ? Tkinter per l'interfaccia
429 | ? PyPDF2 per l'elaborazione PDF
430 | ? Threading per operazioni non bloccanti
431 |     """
432 |
433 |         info_label = tk.Label(info_section, text=info_text, justify='left',
434 |                                font=('Segoe UI', 9), bg='#2b2b2b', fg='#d4d4d4')
435 |         info_label.pack(pady=10, padx=10, anchor='w')
436 |
437 |         # Statistiche e utilità
438 |         stats_section = ttk.LabelFrame(main_frame, text="?? Statistiche & Utilità", style='Section.TLabelframe')
439 |         stats_section.pack(fill='x', pady=10)
440 |
441 |         # Pulsanti utilità
442 |         utils_frame = ttk.Frame(stats_section, style='Custom.TFrame')
443 |         utils_frame.pack(fill='x', pady=10)
444 |
445 |         docs_btn = ttk.Button(utils_frame, text="? Documentazione",
446 |                                command=self.open_documentation, width=20)
447 |         docs_btn.pack(side='left', padx=5)
448 |
449 |         bug_btn = ttk.Button(utils_frame, text="? Segnala Bug",
450 |                                command=self.report_bug, width=20)
451 |         bug_btn.pack(side='left', padx=5)
452 |
453 |         suggest_btn = ttk.Button(utils_frame, text="? Suggestimenti",
454 |                                command=self.suggest_features, width=20)
455 |         suggest_btn.pack(side='left', padx=5)
456 |
457 |         update_btn = ttk.Button(utils_frame, text="? Controlla Aggiornamenti",
458 |                                command=self.check_updates, width=20)
459 |         update_btn.pack(side='left', padx=5)
460 |
461 |     def setup_status_bar(self):
462 |         """Configura la status bar"""
463 |         status_frame = ttk.Frame(self.root, relief='sunken', padding=2, style='Custom.TFrame')
464 |         status_frame.pack(fill='x', side='bottom')
465 |
466 |         self.status_var = tk.StringVar(value="? Pronto - Seleziona un'operazione per iniziare")

```

```

467 |         status_label = tk.Label(status_frame, textvariable=self.status_var,
468 |                                 font=('Segoe UI', 9), bg='#2b2b2b', fg='#569cd6')
469 |         status_label.pack(side='left')
470 |
471 |     def browse_project(self):
472 |         path = filedialog.askdirectory(title="? Seleziona cartella progetto")
473 |         if path:
474 |             self.project_path.set(path)
475 |             self.update_status(f"? Progetto selezionato: {Path(path).name}")
476 |
477 |     def browse_output_pdf(self):
478 |         path = filedialog.asksaveasfilename(
479 |             title="? Salva PDF come",
480 |             defaultextension=".pdf",
481 |             filetypes=[("PDF files", "*.pdf"), ("Tutti i file", ".*")]
482 |         )
483 |         if path:
484 |             self.output_pdf.set(path)
485 |
486 |     def browse_pdf(self):
487 |         path = filedialog.askopenfilename(
488 |             title="? Seleziona PDF",
489 |             filetypes=[("PDF files", "*.pdf"), ("Tutti i file", ".*")]
490 |         )
491 |         if path:
492 |             self.pdf_to_read.set(path)
493 |             self.update_status(f"? PDF selezionato: {Path(path).name}")
494 |
495 |     def browse_reconstruction_output(self):
496 |         path = filedialog.askdirectory(title="? Seleziona cartella output")
497 |         if path:
498 |             self.reconstruction_output.set(path)
499 |
500 |     def update_status(self, message):
501 |         self.status_var.set(f"? {datetime.now().strftime('%H:%M:%S')} - {message}")
502 |         self.root.update_idletasks()
503 |
504 |     def log_create(self, message):
505 |         self.create_log.insert(tk.END, f"{datetime.now().strftime('%H:%M:%S')} - {message}\n")
506 |         self.create_log.see(tk.END)
507 |         self.root.update_idletasks()
508 |
509 |     def log_recreate(self, message):
510 |         self.recreate_log.insert(tk.END, f"{datetime.now().strftime('%H:%M:%S')} - {message}\n")
511 |         self.recreate_log.see(tk.END)
512 |         self.root.update_idletasks()
513 |
514 |     def clear_create_log(self):
515 |         self.create_log.delete(1.0, tk.END)
516 |         self.update_status("Log di creazione pulito")
517 |
518 |     def clear_recreate_log(self):
519 |         self.recreate_log.delete(1.0, tk.END)
520 |         self.update_status("Log di ricostruzione pulito")
521 |
522 |     def export_create_log(self):
523 |         self.export_log(self.create_log, "create_log.txt")
524 |
525 |     def export_recreate_log(self):
526 |         self.export_log(self.recreate_log, "recreate_log.txt")
527 |
528 |     def export_log(self, log_widget, filename):
529 |         content = log_widget.get(1.0, tk.END)
530 |         path = filedialog.asksaveasfilename(
531 |             title="? Esporta log",
532 |             defaultextension=".txt",
533 |             initialfile=filename,

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```

534 |         filetypeypes=[("Text files", "*.txt"), ("Tutti i file", "**.*")]
535 |     )
536 |     if path:
537 |         with open(path, 'w', encoding='utf-8') as f:
538 |             f.write(content)
539 |             self.update_status(f"Log esportato: {Path(path).name}")
540 |
541 |     def save_exclusions(self):
542 |         """Salva le esclusioni dalle text area"""
543 |         try:
544 |             dirs_text = self.dirs_text.get(1.0, tk.END).strip()
545 |             files_text = self.files_text.get(1.0, tk.END).strip()
546 |             extensions_text = self.extensions_text.get(1.0, tk.END).strip()
547 |
548 |             self.exclude_dirs_var.set(dirs_text)
549 |             self.exclude_files_var.set(files_text)
550 |             self.exclude_extensions_var.set(extensions_text)
551 |
552 |             messagebox.showinfo("Successo", "Esclusioni salvate con successo!")
553 |             self.update_status("Configurazione esclusioni salvata")
554 |
555 |         except Exception as e:
556 |             messagebox.showerror("Errore", f"Errore nel salvataggio: {str(e)}")
557 |
558 |     def reset_exclusions(self):
559 |         """Ripristina le esclusioni predefinite"""
560 |         self.dirs_text.delete(1.0, tk.END)
561 |         self.dirs_text.insert('1.0', " , ".join(sorted(self.default_excluded_dirs)))
562 |
563 |         self.files_text.delete(1.0, tk.END)
564 |         self.files_text.insert('1.0', " , ".join(sorted(self.default_excluded_files)))
565 |
566 |         self.extensions_text.delete(1.0, tk.END)
567 |         self.extensions_text.insert('1.0', " , ".join(sorted(self.default_excluded_extensions)))
568 |
569 |         self.update_status("Esclusioni ripristinate ai valori predefiniti")
570 |
571 |     def export_exclusions(self):
572 |         """Esporta la configurazione delle esclusioni"""
573 |         try:
574 |             path = filedialog.asksaveasfilename(
575 |                 title="? Esporta configurazione esclusioni",
576 |                 defaultextension=".txt",
577 |                 initialfile="exclusions_config.txt",
578 |                 filetypeypes=[("Text files", "*.txt"), ("Tutti i file", "**.*")]
579 |             )
580 |             if path:
581 |                 config = f"""# Advanced PDF Project Manager - Configurazione Esclusioni
582 | # Esportato il: {datetime.now().strftime('%Y-%m-%d %H:%M:%S')}
583 |
584 | [DIRS]
585 | {self.dirs_text.get(1.0, tk.END).strip()}
586 |
587 | [FILES]
588 | {self.files_text.get(1.0, tk.END).strip()}
589 |
590 | [EXTENSIONS]
591 | {self.extensions_text.get(1.0, tk.END).strip()}
592 | """
593 |                 with open(path, 'w', encoding='utf-8') as f:
594 |                     f.write(config)
595 |                     self.update_status(f"Configurazione esportata: {Path(path).name}")
596 |
597 |             except Exception as e:
598 |                 messagebox.showerror("Errore", f"Errore nell'esportazione: {str(e)}")
599 |
600 |     def import_exclusions(self):

```



```

601 |         """Importa la configurazione delle esclusioni"""
602 |     try:
603 |         path = filedialog.askopenfilename(
604 |             title="? Importa configurazione esclusioni",
605 |             filetypes=[("Text files", "*.txt"), ("Tutti i file", "*.*")]
606 |         )
607 |         if path:
608 |             with open(path, 'r', encoding='utf-8') as f:
609 |                 content = f.read()
610 |
611 |             # Parsing semplice del file di configurazione
612 |             sections = content.split('[')
613 |             for section in sections:
614 |                 if section.startswith('DIRS'):
615 |                     dirs_content = section[5:].split('[')[0].strip()
616 |                     self.dirs_text.delete(1.0, tk.END)
617 |                     self.dirs_text.insert('1.0', dirs_content)
618 |                 elif section.startswith('FILES'):
619 |                     files_content = section[6:].split('[')[0].strip()
620 |                     self.files_text.delete(1.0, tk.END)
621 |                     self.files_text.insert('1.0', files_content)
622 |                 elif section.startswith('EXTENSIONS'):
623 |                     extensions_content = section[10:].split('[')[0].strip()
624 |                     self.extensions_text.delete(1.0, tk.END)
625 |                     self.extensions_text.insert('1.0', extensions_content)
626 |
627 |             self.update_status(f"Configurazione importata: {Path(path).name}")
628 |
629 |     except Exception as e:
630 |         messagebox.showerror("Errore", f"Errore nell'importazione: {str(e)}")
631 |
632 |     def show_project_stats(self):
633 |         """Mostra statistiche del progetto selezionato"""
634 |         if not self.project_path.get() or not os.path.exists(self.project_path.get()):
635 |             messagebox.showwarning("Attenzione", "Seleziona prima un progetto valido")
636 |             return
637 |
638 |         try:
639 |             project_path = Path(self.project_path.get())
640 |             total_files = 0
641 |             total_size = 0
642 |             extensions = {}
643 |
644 |             for file_path in project_path.rglob('*'):
645 |                 if file_path.is_file():
646 |                     total_files += 1
647 |                     total_size += file_path.stat().st_size
648 |                     ext = file_path.suffix.lower()
649 |                     extensions[ext] = extensions.get(ext, 0) + 1
650 |
651 |             stats_text = f"""
652 | Statistiche Progetto: {project_path.name}
653 |
654 | File totali: {total_files}
655 | Dimensione totale: {total_size / (1024*1024):.2f} MB
656 |
657 | Estensioni principali:
658 | """
659 |             for ext, count in sorted(extensions.items(), key=lambda x: x[1], reverse=True)[:10]:
660 |                 stats_text += f" {ext or 'Nessuna'}: {count} file\n"
661 |
662 |             messagebox.showinfo("? Statistiche Progetto", stats_text)
663 |
664 |     except Exception as e:
665 |         messagebox.showerror("Errore", f"Errore nel calcolo statistiche: {str(e)}")
666 |
667 |     def open_output_folder(self):

```

```

668 |         """Apri la cartella di output nel file explorer"""
669 |         if self.reconstruction_output.get() and os.path.exists(self.reconstruction_output.get()):
670 |             os.startfile(self.reconstruction_output.get())
671 |             self.update_status("Cartella output aperta")
672 |         else:
673 |             messagebox.showwarning("Attenzione", "Cartella di output non valida")
674 |
675 |     def open_documentation(self):
676 |         webbrowser.open("https://github.com/your-repo/documentation")
677 |
678 |     def report_bug(self):
679 |         webbrowser.open("https://github.com/your-repo/issues")
680 |
681 |     def suggest_features(self):
682 |         webbrowser.open("https://github.com/your-repo/discussions")
683 |
684 |     def check_updates(self):
685 |         messagebox.showinfo("Aggiornamenti", "? Controllo aggiornamenti in sviluppo")
686 |
687 |     def start_create_pdf(self):
688 |         """Avvia la creazione del PDF in un thread separato"""
689 |         if not self.project_path.get():
690 |             messagebox.showerror("Errore", "Seleziona una cartella progetto")
691 |             return
692 |
693 |         if not self.output_pdf.get():
694 |             messagebox.showerror("Errore", "Specifica un file PDF di output")
695 |             return
696 |
697 |         self.create_pdf_btn.config(state='disabled')
698 |         self.update_status("? Avvio creazione PDF...")
699 |
700 |         thread = threading.Thread(target=self.create_pdf_thread)
701 |         thread.daemon = True
702 |         thread.start()
703 |
704 |     def create_pdf_thread(self):
705 |         """Thread per la creazione del PDF"""
706 |         try:
707 |             self.log_create("? Inizio creazione PDF...")
708 |             self.log_create(f"? Progetto: {self.project_path.get()}")
709 |             self.log_create(f"? Output: {self.output_pdf.get()}")
710 |
711 |             # Prepara le esclusioni dalle text area
712 |             custom_exclusions = {}
713 |
714 |             dirs_text = self.dirs_text.get(1.0, tk.END).strip()
715 |             if dirs_text:
716 |                 dirs = [d.strip() for d in dirs_text.split(',') if d.strip()]
717 |                 custom_exclusions['dirs'] = dirs
718 |                 self.log_create(f"? Cartelle escluse: {len(dirs)} elementi")
719 |
720 |             files_text = self.files_text.get(1.0, tk.END).strip()
721 |             if files_text:
722 |                 files = [f.strip() for f in files_text.split(',') if f.strip()]
723 |                 custom_exclusions['files'] = files
724 |                 self.log_create(f"? File esclusi: {len(files)} elementi")
725 |
726 |             extensions_text = self.extensions_text.get(1.0, tk.END).strip()
727 |             if extensions_text:
728 |                 exts = [e.strip() for e in extensions_text.split(',') if e.strip()]
729 |                 custom_exclusions['extensions'] = exts
730 |                 self.log_create(f"? Estensioni escluse: {len(exts)} elementi")
731 |
732 |             # Crea il PDF usando la classe dal tuo file
733 |             converter = PythonProjectToPDF()
734 |             files_processed = converter.create_pdf(

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735 |         self.project_path.get(),
736 |         self.output_pdf.get(),
737 |         custom_exclusions
738 |     )
739 |
740 |     self.log_create(f"? PDF creato con successo! File processati: {files_processed}")
741 |     self.update_status("? PDF creato con successo!")
742 |     messagebox.showinfo("Successo", f"PDF creato con successo!\nFile processati: {files_processed}")
743 |
744 | except Exception as e:
745 |     error_msg = f"? Errore durante la creazione del PDF: {str(e)}"
746 |     self.log_create(error_msg)
747 |     self.update_status("? Errore nella creazione PDF")
748 |     messagebox.showerror("Errore", f"Errore durante la creazione del PDF:\n{str(e)}")
749 | finally:
750 |     self.create_pdf_btn.config(state='normal')
751 |
752 | def start_recreate_project(self):
753 |     """Avvia la ricostruzione del progetto in un thread separato"""
754 |     if not self.pdf_to_read.get():
755 |         messagebox.showerror("Errore", "Seleziona un file PDF")
756 |         return
757 |
758 |     if not self.reconstruction_output.get():
759 |         messagebox.showerror("Errore", "Specifica una cartella di output")
760 |         return
761 |
762 |     if not os.path.exists(self.pdf_to_read.get()):
763 |         messagebox.showerror("Errore", "Il file PDF specificato non esiste")
764 |         return
765 |
766 |     self.recreate_btn.config(state='disabled')
767 |     self.update_status("? Avvio ricostruzione progetto...")
768 |
769 |     thread = threading.Thread(target=self.recreate_project_thread)
770 |     thread.daemon = True
771 |     thread.start()
772 |
773 | def recreate_project_thread(self):
774 |     """Thread per la ricostruzione del progetto"""
775 |     try:
776 |         self.log_recreate("? Inizio ricostruzione progetto...")
777 |         self.log_recreate(f"? PDF sorgente: {self.pdf_to_read.get()}")
778 |         self.log_recreate(f"? Output: {self.reconstruction_output.get()}")
779 |
780 |         # Ricrea il progetto usando la classe dal tuo file
781 |         recreator = UniversalPDFToProject()
782 |         success = recreator.recreate_project_structure(
783 |             self.pdf_to_read.get(),
784 |             self.reconstruction_output.get()
785 |         )
786 |
787 |         if success:
788 |             self.log_recreate("? Progetto ricostruito con successo!")
789 |             self.update_status("? Progetto ricostruito con successo!")
790 |
791 |             if self.auto_open_folder.get():
792 |                 self.open_output_folder()
793 |
794 |             messagebox.showinfo("Successo", "Progetto ricostruito con successo!")
795 |         else:
796 |             self.log_recreate("? Ricostruzione fallita!")
797 |             self.update_status("? Ricostruzione fallita!")
798 |             messagebox.showerror("Errore", "Ricostruzione del progetto fallita!")
799 |
800 | except Exception as e:
801 |     error_msg = f"? Errore durante la ricostruzione: {str(e)}"

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```
802 |         self.log_recreate(error_msg)
803 |         self.update_status("? Errore nella ricostruzione")
804 |         messagebox.showerror("Errore", f"Errore durante la ricostruzione:\n{str(e)}")
805 |     finally:
806 |         self.recreate_btn.config(state='normal')
807 |
808 | def main():
809 |     root = tk.Tk()
810 |     app = AdvancedPDFProjectManager(root)
811 |     root.mainloop()
812 |
813 | if __name__ == "__main__":
814 |     main()
```