# Test plan.

For testing I’ll be doing a white box Top-Down integration testing. Which means I’ll be developing stubs inside the main application and testing the components integration in a whole application prototype. As the result of this testing approach unnoticed design errors may be detected and described in a developing documentation.

# 1.GUI Development and testing.

The first stage of application development is a planned GUI development and as a result prototype for testing is a main application window with no elements functionality.

# 2. Select PDF file(s) section development and testing.

For this section, I’ll test a new window appeared for user to make him able to select the pdf format files only to work with. To prevent application from any mistakes in future I’ll restrict any other file types to be selected on this stage. Also, this part of the application should grant the access to the list of the selected files from any other chunk of the code or any other event initiated by the user. For this purpose, I’ll make a class to keep selected files and return the files parameters into the main application code.

Test plan for this stage:

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| --- | --- | --- | --- |
| Test Number | Purpose of Test | Test Data or Page Ref | Expected Results or Page Ref |
| 1 | Select PDF file(s) button test | - | Calls the window to select pdf files. Only pdf files can be selected. |
| 2 | Don’t select any file and press “Open” | - | Does nothing |
| 3 | Press “Cancel” | - | Exit to the main app window |
| 4 | Select one pdf file | - | One file selected and displayed in the “File(s) already selected” window. |
| 5 | Select some pdf files | - | Files are selected and displayed in the “File(s) already selected” window. |
| 6 | “Clear file(s) selection” button test. | - | Clears the list of selected files. |

## 3. Converter testing.

Testing the converter library used in code.

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| --- | --- | --- | --- |
| Test Number | Purpose of Test | Test Data or Page Ref | Expected Results or Page Ref |
| 1 | Converter test. | Choose the file from pdf files list. PDF format files. | PDF file text displayed correctly in a correct place. |
| 2 | Converter test. | Different file selected. | PDF file text displayed correctly in a correct place. |
| 3 | Converter test. | Press Open file and select different files when one of the files selected. | New files selection appears on the list. Text area clear. |

## 4. “PDF File text” functionality test plan.

This part is responsible for correct converter implementation into the main application code and displaying converted file text in a text area.

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| --- | --- | --- | --- |
| Test Number | Purpose of Test | Test Data or Page Ref | Expected Results or Page Ref |
| 1 | Converter test. | Choose the file from pdf files list. PDF format files. | PDF file text displayed correctly in a correct place. |
| 2 | Converter test. | Different file selected. | PDF file text displayed correctly in a correct place. |
| 3 | Converter test. | Select more than one file. | Program doesn’t allow to select more than one file at the time. |

## 5. “Save/Extract” button event code testing.

This is the biggest and most difficult part. Would be good to do the third person testing.

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| --- | --- | --- | --- |
| Test Number | Purpose of Test | Test Data or Page Ref | Expected Results or Page Ref |
| 1 | File can be saved. | Choose file in pdf files list.  PDF format files. | File saved with correct name and content. |
| 2 | Making file from multiple pdf files. | Choose files in pdf files list.  PDF format files.  Starting and finishing points are empty. | File saved with correct name and content. |
| 3 | Cutting a piece of text from one file | Choose file in pdf files list.  PDF format files.  Starting and finishing points are pointed. | File saved with correct name and content. |
| 4 | Cutting a piece of text from some files | Choose files in pdf files list.  PDF format files.  Starting and finishing points are pointed. | File saved with correct name and content. |
| 5 | Exceptional test. | PDF files aren’t selected. | Appropriate message displayed. |
| 6 | Exceptional test. | Save data into the file without pointing the extension. | .txt extension added. |
| 7 | Adding text into the existing text file test. | Save data by selecting existing text file. | Extracted text added to the end of the selected text file. |

## 6. Testing the rest of GUI elements.

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| Test Number | Purpose of Test | Test Data or Page Ref | Expected Results or Page Ref |
| 1 | Exit button testing. | - | Exits the app. |
| 2 | Help button testing. | - | Help message window displayed. |
| 3 | Clear fragment points button testing. | - | Start and finish points text fields are clear. |