# Test Plan – SaveForm Macro for SolidWorks

## 1. Environment Preparation

- SolidWorks 2024 must be installed and running.

- Test file should be an existing part or assembly with drawing.

- Files required: Module1.bas, clsConfig.cls, SaveForm.frm, SaveForm.frx

- Macro loaded into VBA editor inside SolidWorks.

## 2. Functional Test Cases

### 2.1 Open Form

Test Steps:  
Run `main` macro to display the form.

Expected Result:  
The 'Save As' form opens with config loaded correctly.

### 2.2 No SW Document

Test Steps:  
Run macro when no file is open.

Expected Result:  
MsgBox: 'No active SolidWorks document found.' (ไม่พบไฟล์ที่กำลังใช้งาน)

### 2.3 Unsaved Document

Test Steps:  
Open new file but do not save. Run macro.

Expected Result:  
MsgBox: 'This document has not been saved.' (กรุณาบันทึกก่อนดำเนินการต่อ)

### 2.4 Load Config

Test Steps:  
Ensure Setting\_config.txt exists and run macro.

Expected Result:  
Checkbox and textbox filled from config.

### 2.5 No Config

Test Steps:  
Delete Setting\_config.txt and run macro.

Expected Result:  
Default values are loaded and new config file is saved.

### 2.6 Export All

Test Steps:  
Tick all DWG, DXF, PDF and click Save.

Expected Result:  
All 3 files exported to selected folder.

### 2.7 Export Some

Test Steps:  
Tick only PDF and click Save.

Expected Result:  
Only .pdf file is created.

### 2.8 Change File Name

Test Steps:  
Tick 'Change Name' and enter 'Draft\_01'.

Expected Result:  
Files saved as Draft\_01.\*

### 2.9 Change Path

Test Steps:  
Tick 'Change Path' and browse folder.

Expected Result:  
Files saved in selected folder.

### 2.10 Overwrite File

Test Steps:  
Export with same file name again.

Expected Result:  
Prompt: 'File already exists. Overwrite?'

## 3. Negative Test Cases

### ❌ Empty File Name

Remove file name and click Save.

Expected: MsgBox: 'Invalid file name'.

### ❌ Invalid Path

Enter non-existent path.

Expected: Folder is created or error message shown.

## 4. File Validation Checklist

|  |  |  |
| --- | --- | --- |
| File | Expected | Notes |
| Setting\_config.txt | ✅ | Should match selected settings. |
| <filename>.dwg | ✅/❌ | Exists if DWG selected. |
| <filename>.dxf | ✅/❌ | Exists if DXF selected. |
| <filename>.pdf | ✅/❌ | Exists if PDF selected. |