

Overview:

The project involved automating Microsoft Office applications with the Office Add-ins platform. The client is a reputed organization that deals with data security. After analyzing the client's need, Mindfire offered to develop a solution with VSTO Add - INS. This project helped the client build solutions that extend Office applications and interact with content in Office documents, Outlook mail, messages, and calendar items.

Client details:

Name: Confidential | Industry: Software | Location: USA

Technologies:

VSTO-ADD INS, .Net Framework, Forms, Visual Studio, .Net Web API

Project Description:

This application helped the client build secure data solutions. Mindfire worked on the project to create a Microsoft Office plugin for MS Word, MS Excel, MS PowerPoint, and Outlook. It allowed the client's customers/Microsoft office users to provide security to their data by customizing the application's user interface (UI). Some salient features of the application:

- When the MS application launches, add-in load and disable/block all the listed features from the applications.
- The user can disable Share, auto save, share with Teams, Publish, and Export to protect its organization's documents.

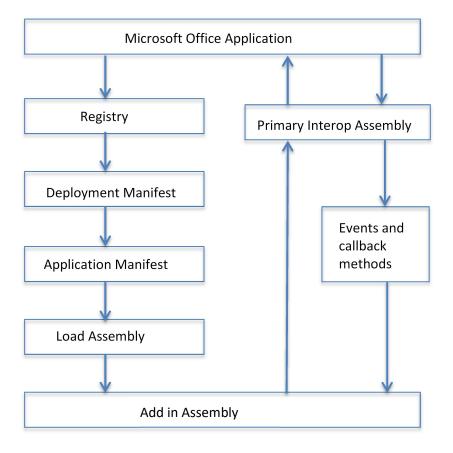
Automation of Microsoft Office Application



- In Hybrid Block Feature, the "save as" tab is disabled only for files of interest to anchor, and a custom tab "Anchor save as" is created. It helps to perform save-as operations for the respective files. This custom tab allows protected files to be saved only in the protected directory.
- The disable feature works only if the document is of interest to anchor. The anchor has
 to categorize documents for them to be protected. Features are configurable only if the
 file is of interest to be protected. Add-In fetches the registry key-value pairs in order to
 enable/disable all the respective features for protected files. Registry values with '1'
 enable the features and '0' disable the features for a secured file.
- Outlook AddIn helps to preview a confidential attachment from Outlook inbox, drafts, send folders, and new mail. It helps to modify the "body" of a new mail when a user tries to attach a protected attachment.
- The team included Third Party Sharing feature (3PS) in outlook. It allows users to upload their files to the cloud and later view them through links provided in the mail.

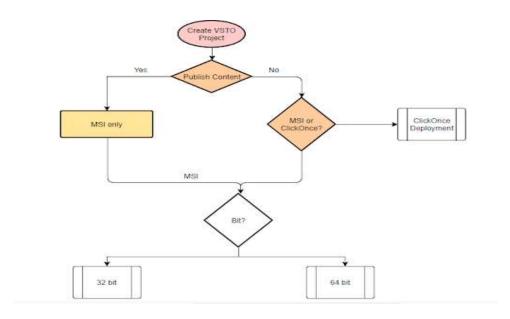


Architecture: VSTO Add-ins





Flow Diagram:



Screenshots

| | Good afternoon | | | | | |
|--|---|------------------------|--------|-------|-------------------------|---------------|
| 🛈 Hame | v New | | | | | |
| D New | | | | | | |
| 10 Open | | 10.000 http://www. | Madaon | Atlas | GALLEW | NO. |
| 100 | | <u>*</u> | | | | |
| - | Bask Preastation | Welcome to PowerPoint | Mathem | Atlan | Gallery | Read |
| Sec. 6 | | | | | | Non-Harran -> |
| Archor Save As | A Search | | | | | |
| | | | | | | |
| PRE | Recent Pinned Sha | ared with Me | | | | |
| See. | Recent Prined Sha | ared with Me | | | Data modified | |
| an a | D News | ared with Me | | | Data modified | |
| 1 1 0 | D term | ared with Me | | | het now | |
| lapat | D News | and with Me | | | | |
| lapat | Name Image: State of the | and with Me | | | het now | |
| Cont | Name Image: State of the | andarleng- Standarfuße | | | hat now In at 555 PM | |

Screenshot 1: Protected Power point File



Screenshot 2: Protected Word File



| 1 -3 | CONCRETE: | | | V | | N |
|--------------|--|---------------|------------------|-------------------|--------------------------|-----------------------|
| p.i | | | Ser row | Disp. dever 10 | ver monet ver Formula | Kee Ges |
| SV | Hard workback | Horse in boar | Welcome to focal | Drap down takenal | Pprovie substan | Printe Overy Saferial |
| | | | | | | Barroyten 3 |
| | | | | | | |
| obstants. | ji) Searth | | | | | |
| 5705757042 | -harden and | and with Me | _ | | | |
| SKI12-90-925 | Recett Panet Sho | nd with No | | | fare could we | |
| 141 | Recent Panet Sho | nd with He | _ | | for collect | |
| 146 | Recott Payor Sho D Tarrie | nd with Vic | _ | | Lafater - | |
| | Recett Provet Sta D more (1) with Alata (1) challen Alata (1) | nd with We | | | tatana tatan | |

Screenshot 3: Protected Excel File

| Accesses Accese | it See Co | Manage We do not set to the set of th |
|--|--------------------|--|
| found Other | System 1 Sector | |
| | | |
| | | |
| | | |
| Ξ | | Contractioner and Annual and Annual and Annual Annua |
| _ | | Contractioner and Annual and Annual and Annual Annua |
| _ | | Contractioner and Annual and Annual and Annual Annua |
| _ | -1 | Visco Model pro the Torrest of a period |
| | - | Visco Model pro the Torrest of a period |
| han | | |
| | | |
| | | <u>n</u> N |
| | THEAT | |
| | | |
| | 8 | |
| | the ex | |
| _ | von e S | |
| | · ····· | |
| | | e van es |

Screenshot 4: Preview protected file in Outlook



Screenshot 5: Add a protected file as attachment in Outlook

| By Date > 1 () You are not responding to the latest message in this conversation. Click here to open it. | E pocero | - Lobor |
|---|----------|---------|
| 9 Anchor | | |
| You have attached Anchor Protected Files to this email. Please select how you want to share them? | | _ |
| () Store Link | | |
| Collare Rachnert | | _ |
| Carcel | | |

Screenshot 6: Send a protected file as attachment in Outlook