# Design Overview for Note-Taking App

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# Summary of Program

This app is a simple version of a normal note-taking app like Notepad, however I have borrowed some features from MS Word as well.

The app consists some basic functionalities:

* Create a note, save a note and load the note from your computer, and delete a note.
* Insert some types of data like tables, images and references.
* Change the format of the text (color, text align, font, size, underline, bold and italic).
* Edit the note (find, find and replace, undo, redo, cut, copy, paste and delete).

The graphic interface of the app will be created through Window Form Application.

For images that serve as an icon in my program, this is the link to get access to all of them

<https://drive.google.com/drive/folders/1uJjiWdIegAcBk8mj22fs9NsLlmefJ5l2?usp=sharing>

Ảnh có chứa ảnh chụp màn hình, văn bản, màn hình, phần mềm

Mô tả được tạo tự động

***The screenshot of the interface of the program***

# Required Roles

Describe each of the classes, interfaces, and any enumerations you will create. Use a different table to describe each role you will have, using the following table templates.

Table 1: MainForm details – duplicate

|  |  |  |
| --- | --- | --- |
| Responsibility | Type Details | Notes |
| currentfile | string | The file you are opening |
| textSize | int | The size of the text |
| OpenFile() | void | Open files from folder in computer |
| SaveFileAs() | void | Save a new file to a folder |
| SaveFile() | void | Save a file after finish editing |
| NewFile() | void | Create a new file |
| Cut() | void | Remove text and store it in clipboard |
| Copy() | void | Copy the text |
| Paste() | void | Paste the text you copied into somewhere else |
| Delete() | void | Delete the text |
| Find() | void | Find a string of word or a piece of text |
| Replace() | void | Replace a piece of text with another one |
| Reference() | void | Create an APA reference |
| ApplyStyle() | void | Apply changes like underline, bold, italic |
| InsertImage() | void | Insert images to the file |
| InsertTable() | void | Insert tables to the file |
| ChangeColor() | void | Change the color of the text |

Table 2: MainForm details

|  |  |
| --- | --- |
| Value | Notes |
| UndoList | List of undo actions |
| RedoList | List of redo actions |

Table 3: Image details – duplicate

|  |  |  |
| --- | --- | --- |
| Responsibility | Type Details | Notes |
| imageFile | string | The file of image |
| Insert() | void | Insert the image into the main form |
| Delete() | void | Delete the image from the main form |

Table 3: Reference details – duplicate

|  |  |  |
| --- | --- | --- |
| Responsibility | Type Details | Notes |
| author | string | The author of the article |
| year | string | The year when the article was published |
| title | string | The title of the article |
| publisher | string | The publisher of the article |
| Insert() | void | Insert the reference into the main form |
| Delete() | void | Delete the reference from the main form |

Table 3: Table details – duplicate

|  |  |  |
| --- | --- | --- |
| Responsibility | Type Details | Notes |
| cellheight | int | The height of the cell |
| cellwidth | int | The width of the cell |
| rowgroups | int | The number of rows of the table |
| columns | int | The number of columns of the table |
| Insert() | void | Insert the table into the main form |
| Delete() | void | Delete the table from the main form |

# Completed UML Diagram

Ảnh có chứa văn bản, biểu đồ, Song song, tài liệu

Mô tả được tạo tự động

# Sequence Diagram

Ảnh có chứa văn bản, hàng, biểu đồ, số

Mô tả được tạo tự động