# MemCard2025
# User Guide

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MemCard2025 consists of three applications:

1. **Memory Card Creator** (`MemCard2025Creator`):
- For creating and managing memory cards.

2. **Memory Card Desktop Viewer** (`MemCard2025DesktopViewer`):
- For viewing and interacting with memory cards on a Windows desktop.

3. **Memory Card Web Server/Viewer** (`MemCard2025WebViewer`):
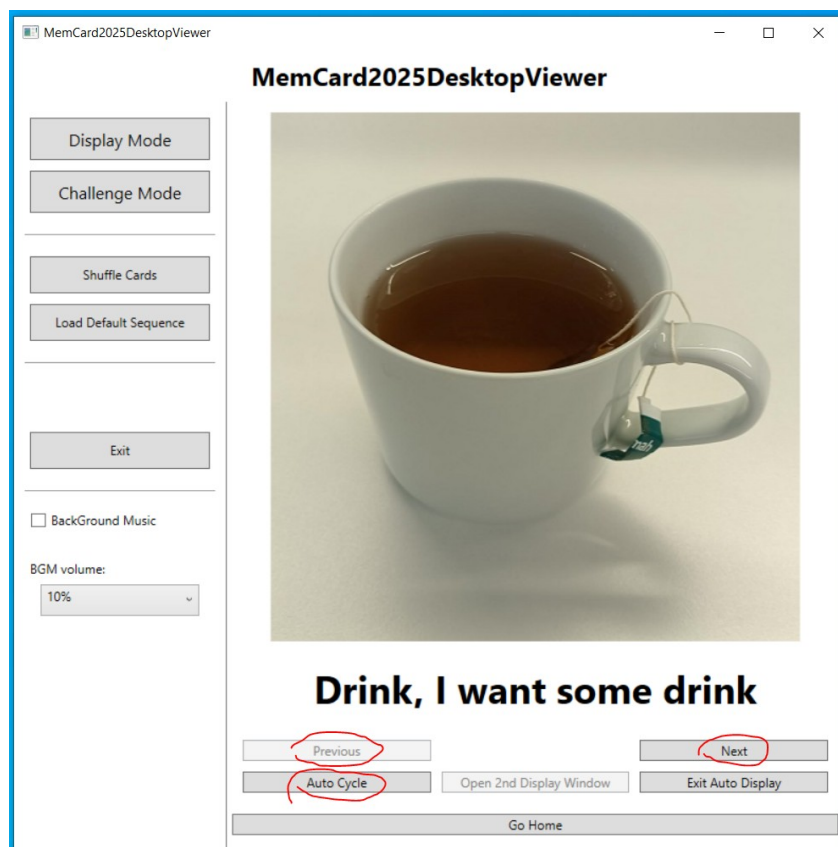- For accessing memory cards via a web interface.

**Table of Content**

**Function 1: Display Memory Cards**
Entry Point: In Desktop Viewer or Web Viewer, click "Display Mode".
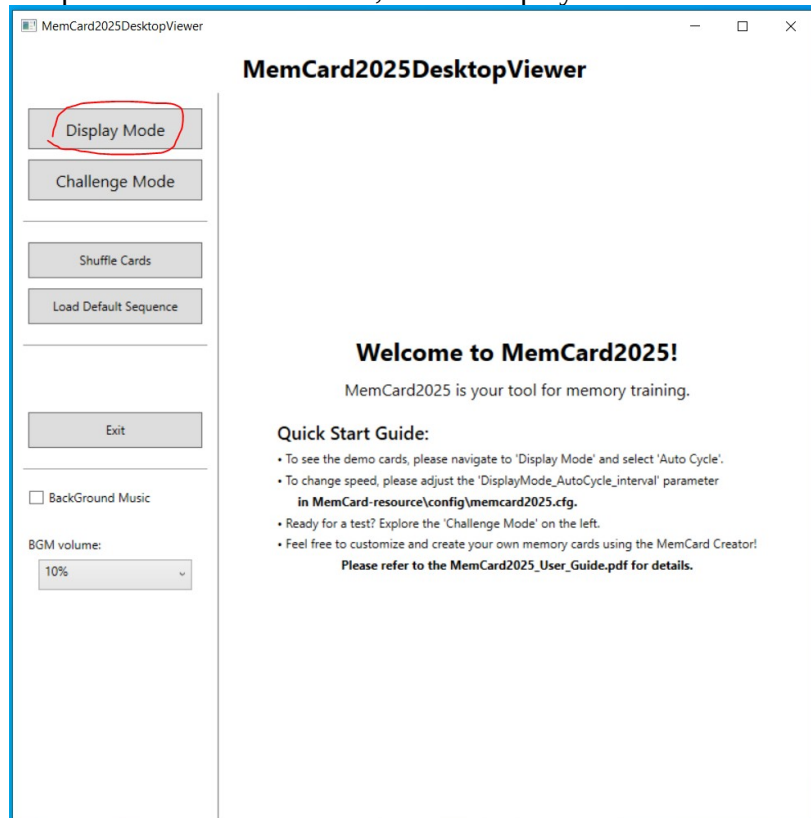


Users can browse cards by clicking Previous and Next Button.
Or click "Auto Cycle" to start a non-stop auto display repeatedly.

## Function 2: Modify Auto Display Speed

To customize your experience, you can adjust the "DisplayMode_AutoCycle_interval" parameter in the MemCard-resource\config\memcard2025.cfg file.

- The default interval is set to 8 seconds, suitable for the anti-dementia demo cards.
- For faster-paced applications, such as vocabulary flashcards, users can set it to 2 seconds or another preferred value.
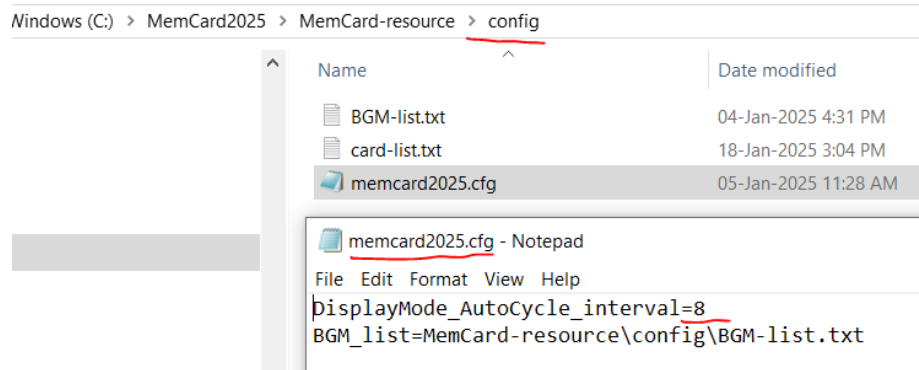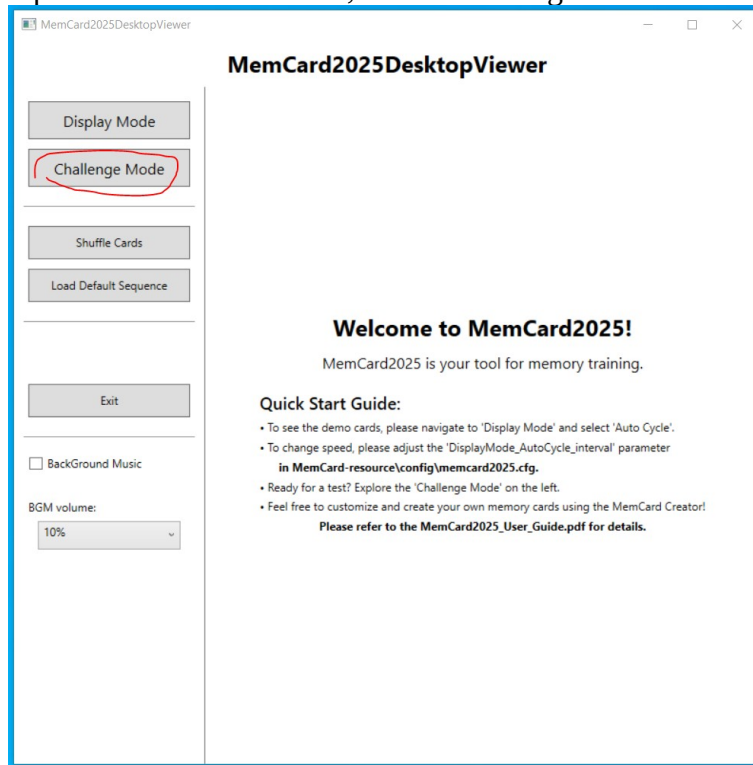


## Function 3: Shuffle Card Sequence

Users can shuffle cards by clicking "Shuffle Cards" button.
The cards in a category will be shuffled.

By clicking "Load Default Sequence", the default card sequence in Card List file will be loaded.
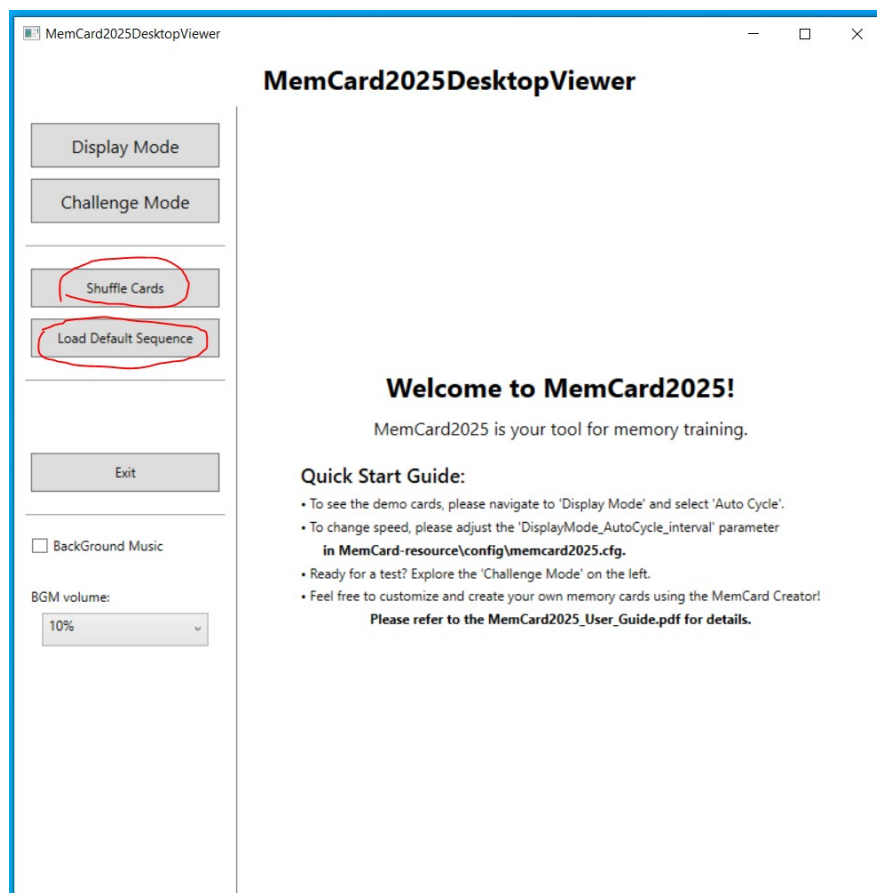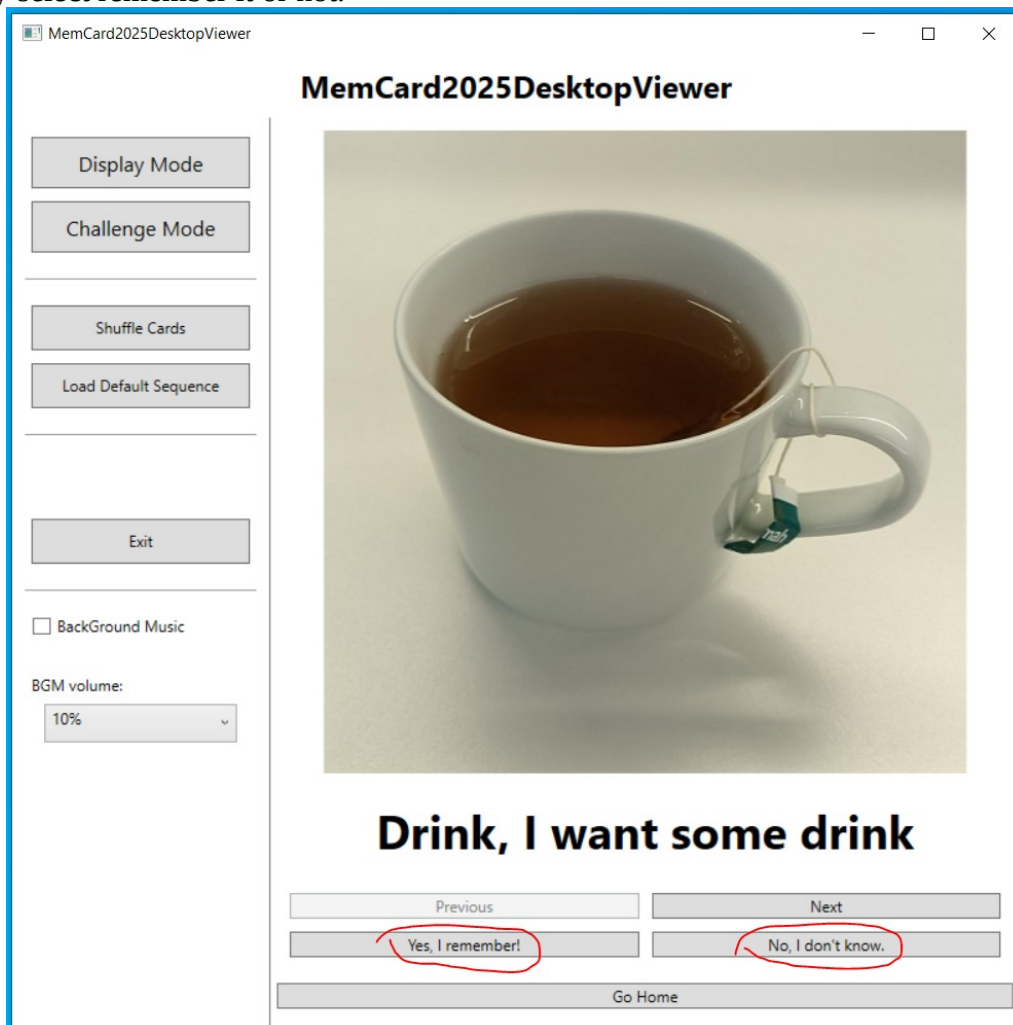
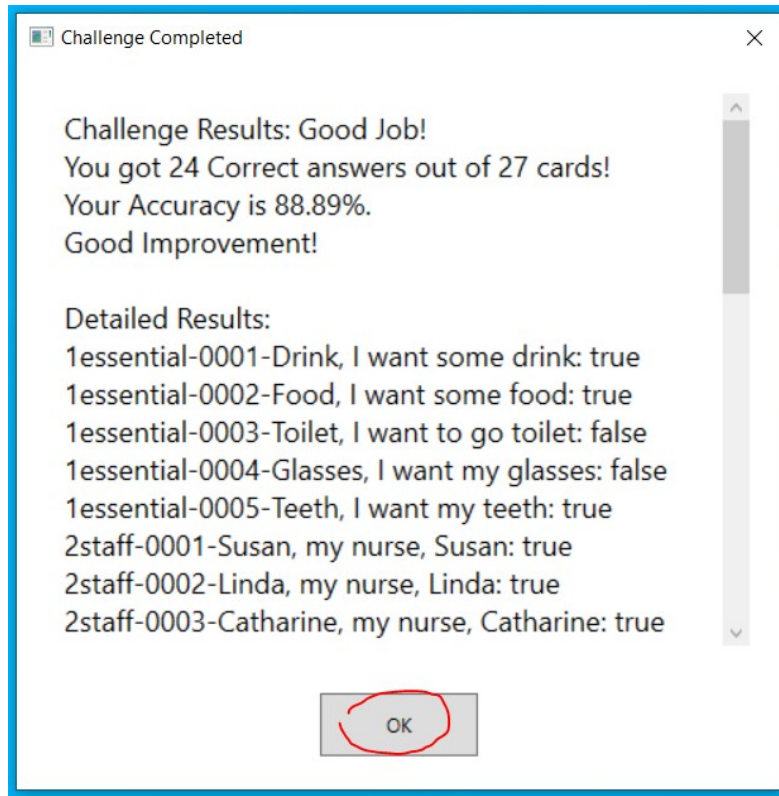**Function 4: Test Memory and Check Result**

Entry Point: In Desktop Viewer or Web Viewer, click "Challenge Mode".
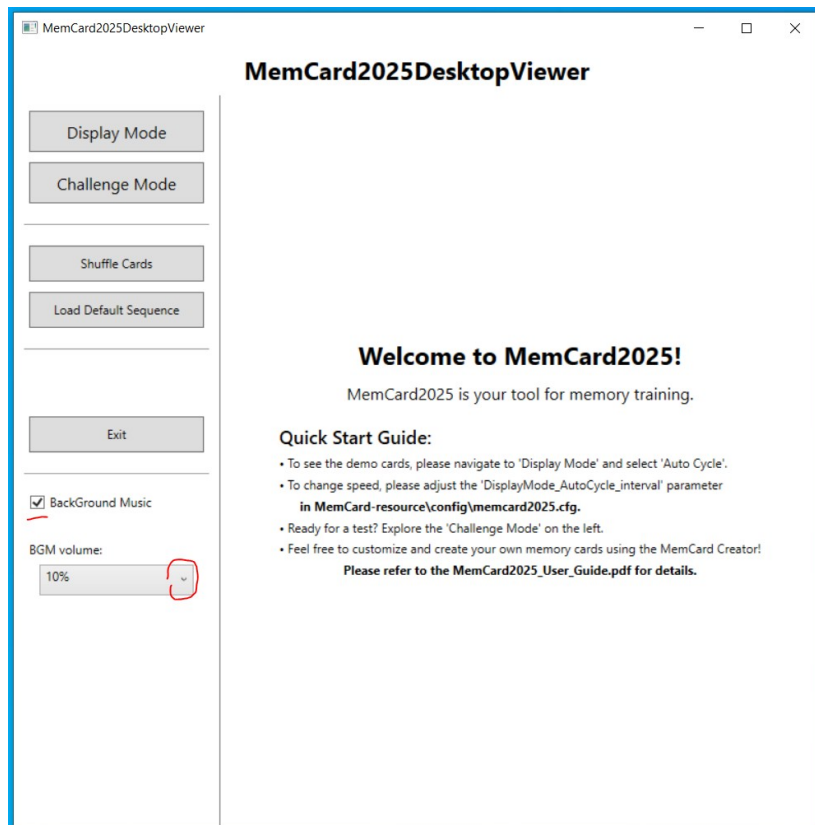


Users may select remember it or not.

After all cards finished, a challenge result will pop up.



Click "OK" to continue.

**Function 5: Background Music**
Users can start Background Music by ticking the checkbox, and select sound volume from the drop down list.

To add new background music, please copy the music mp3 files
into Background Music Directory:
 C:\MemCard2025\MemCard-resource\bgm\,
and add file paths in Background Music List:
 C:\MemCard2025\MemCard-resource\config\BGM-list.txt,
then close and restart the application, it will play the new BGM you defined.

**Function 6: MemCard2025Creator - "Create a Single Card"**

Note:MemCard2025Creator is not essential. Users can edit their own media files and add card name
to card list, and get it running.
Card name format: <category>-<SubNumber>-<Alias>
Entry Point: In Creator, click "Create a Single Card".

1 Input a new category name;
2 Input a card Alias (optional, for human readable purpose);
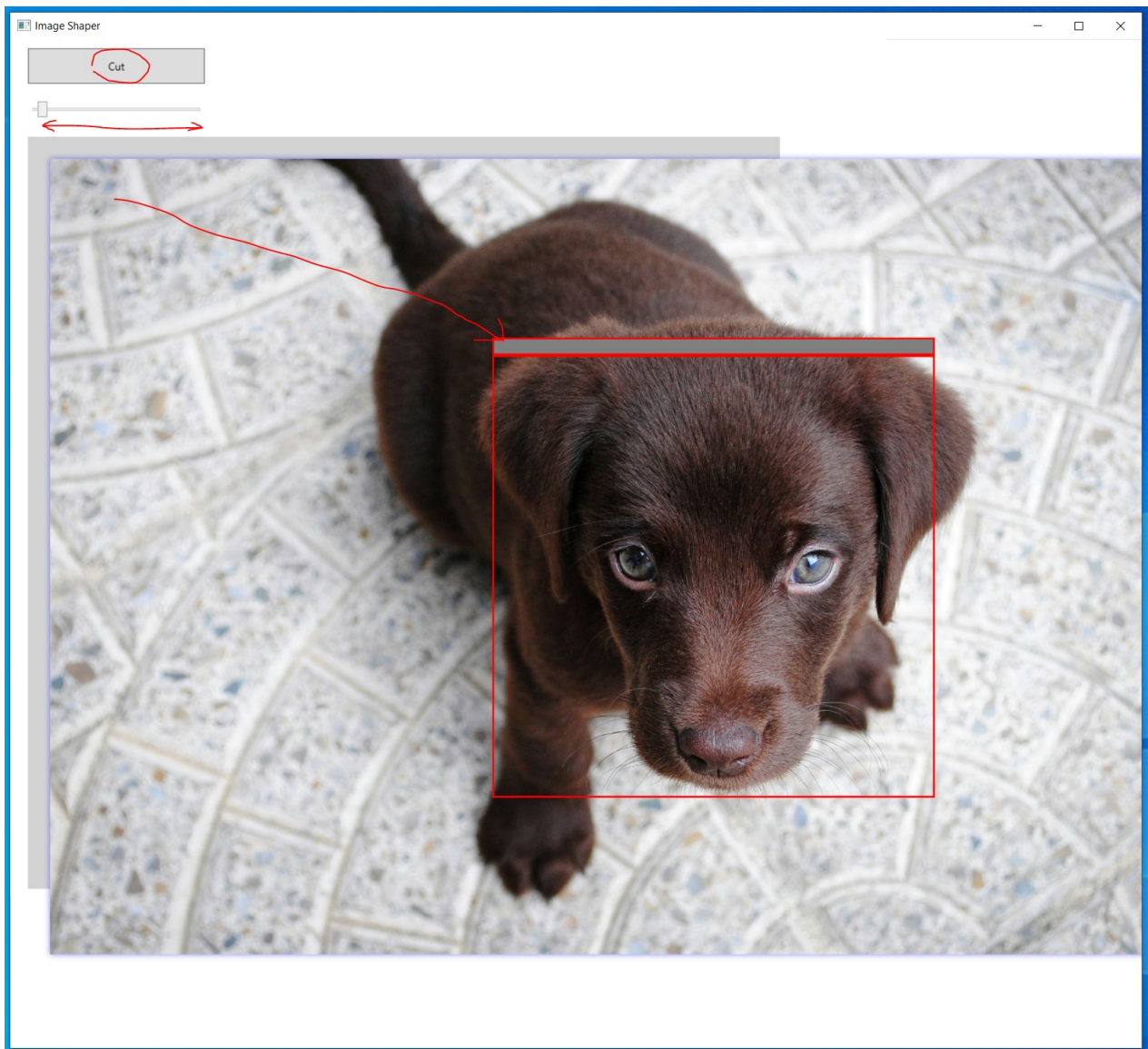3 Click "Edit Card";



4 Click "Select Image";

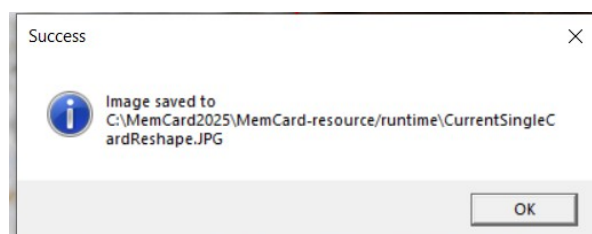5 Select an image from your PC and click "Open";
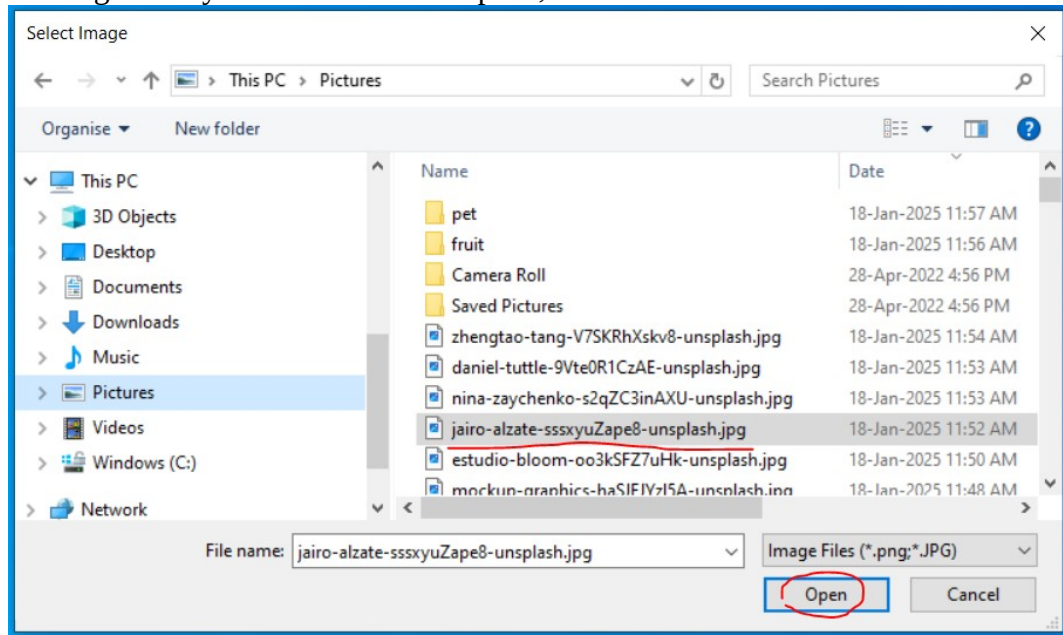


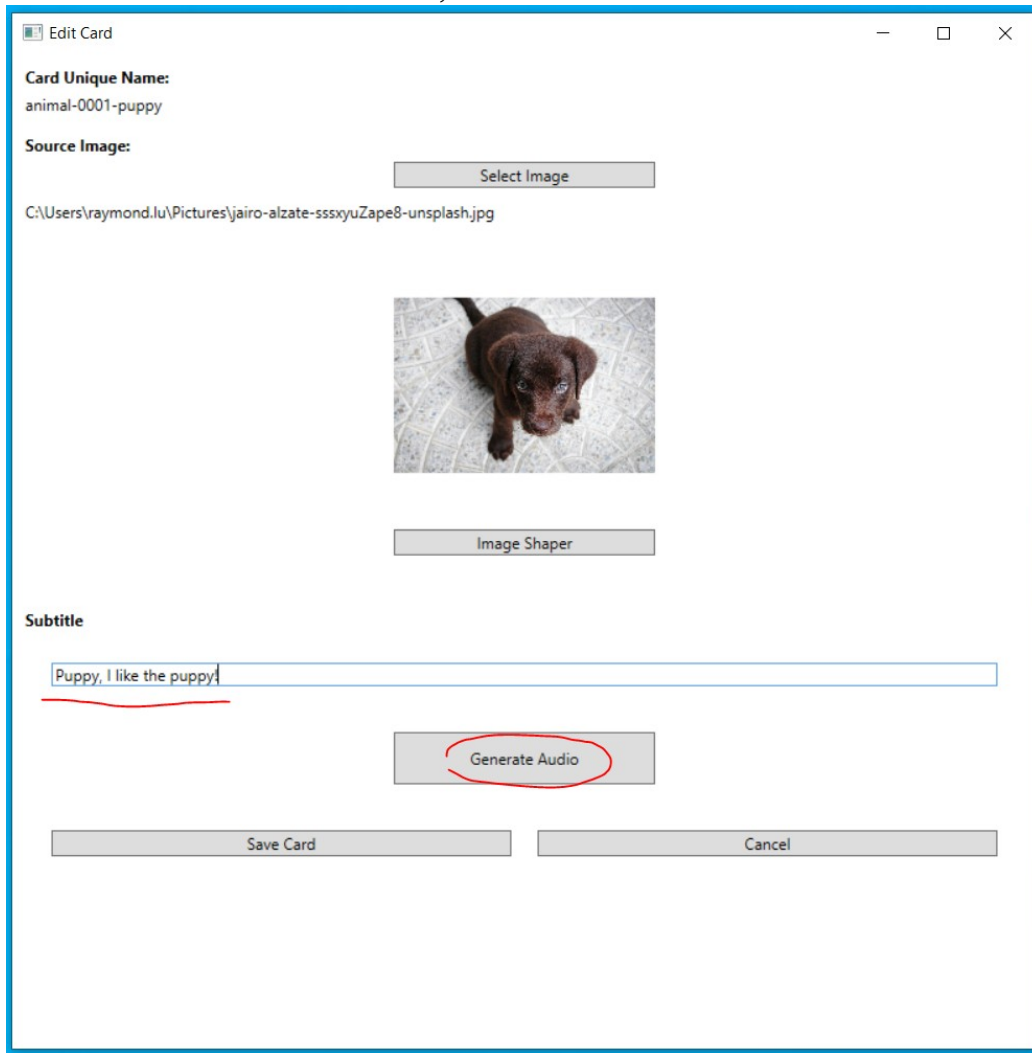6 It will show a preview of the image and click "Image Shaper";
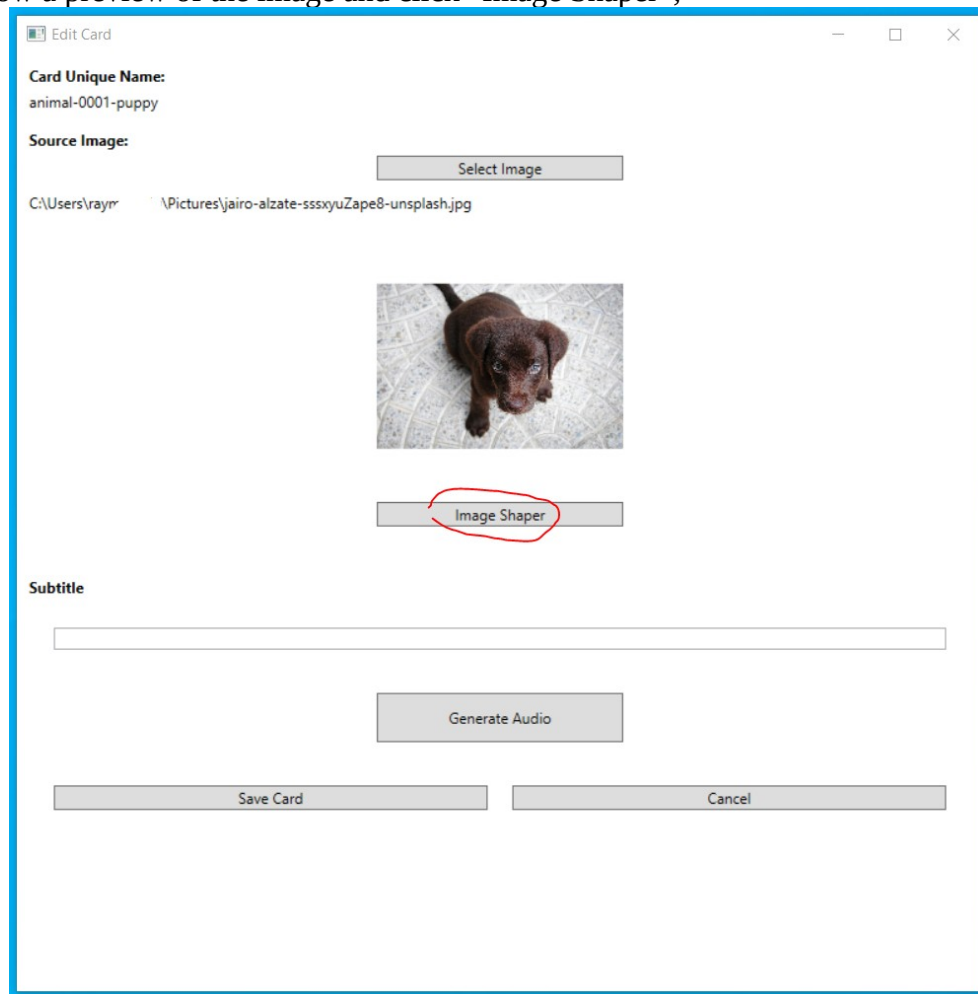


7 The default size of a card image is 500 * 500 pixel, you may drag the slider to zoom the image and move the red box to cut the part you want.
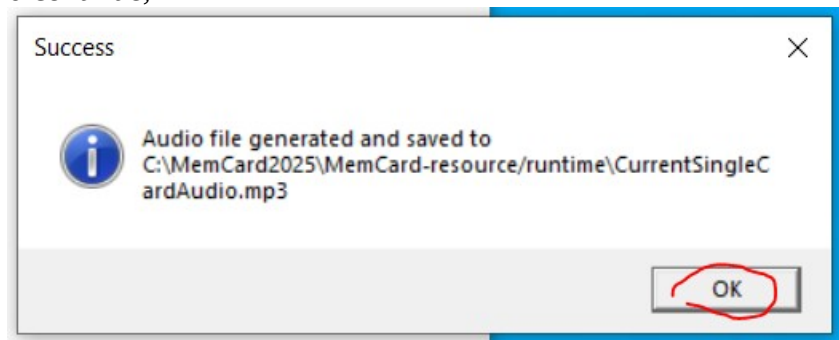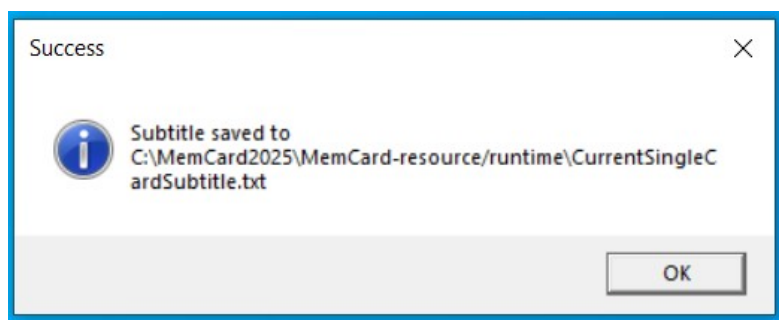
8 After cut, it pop-up a message, click "OK".

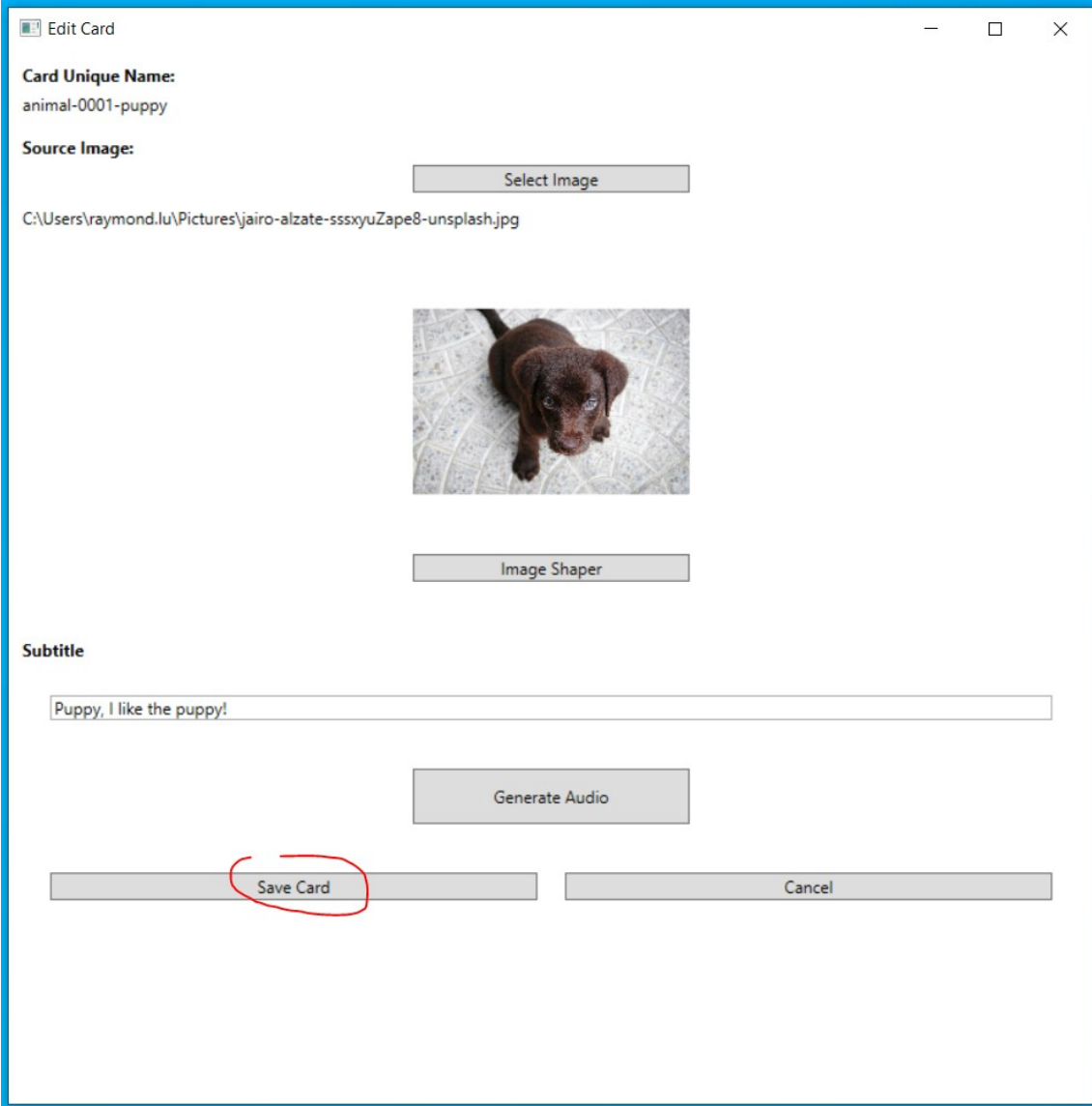9 Input subtitle and click "Generate Audio";


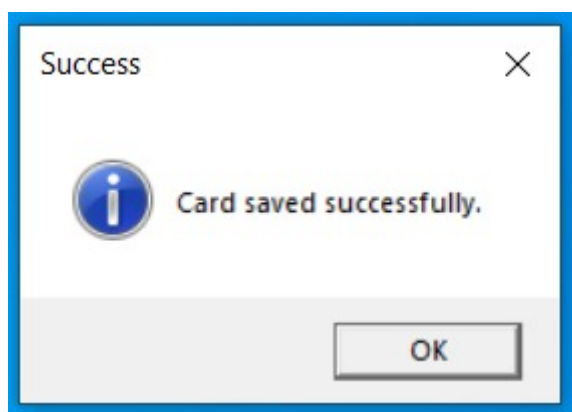
10 click "OK" and continue;



11 click "OK" and continue;

12 click "Save Card" to update the card list file.



13 click "OK" and continue;

To add a next card, please restart the application and you may see the category in the list. (For an existing category, click "Refresh Card Unique Name"). Repeat step 3 to 13 to add another card to "animal" category.

**Function 7: MemCard2025Creator - "Add a Batch of Cards"**

1 prepare image files, and file names.
1.1 the file name will be used as card Alias and card subtitle text;
1.2 the file name can contain letters, numbers, space, comma and apostrophe.
Other special characters are not tested.
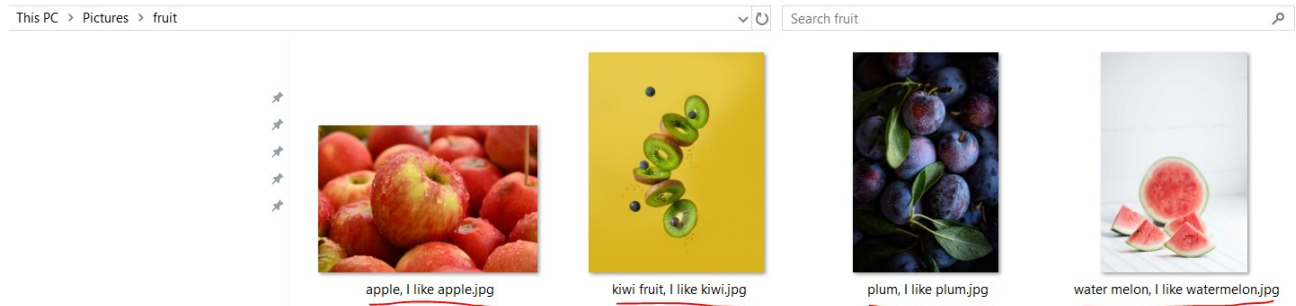


2 In MemCard2025Creator
2.1 Click "Add a Batch of Cards";

2.1 Input a new category and click "Select Card Images";
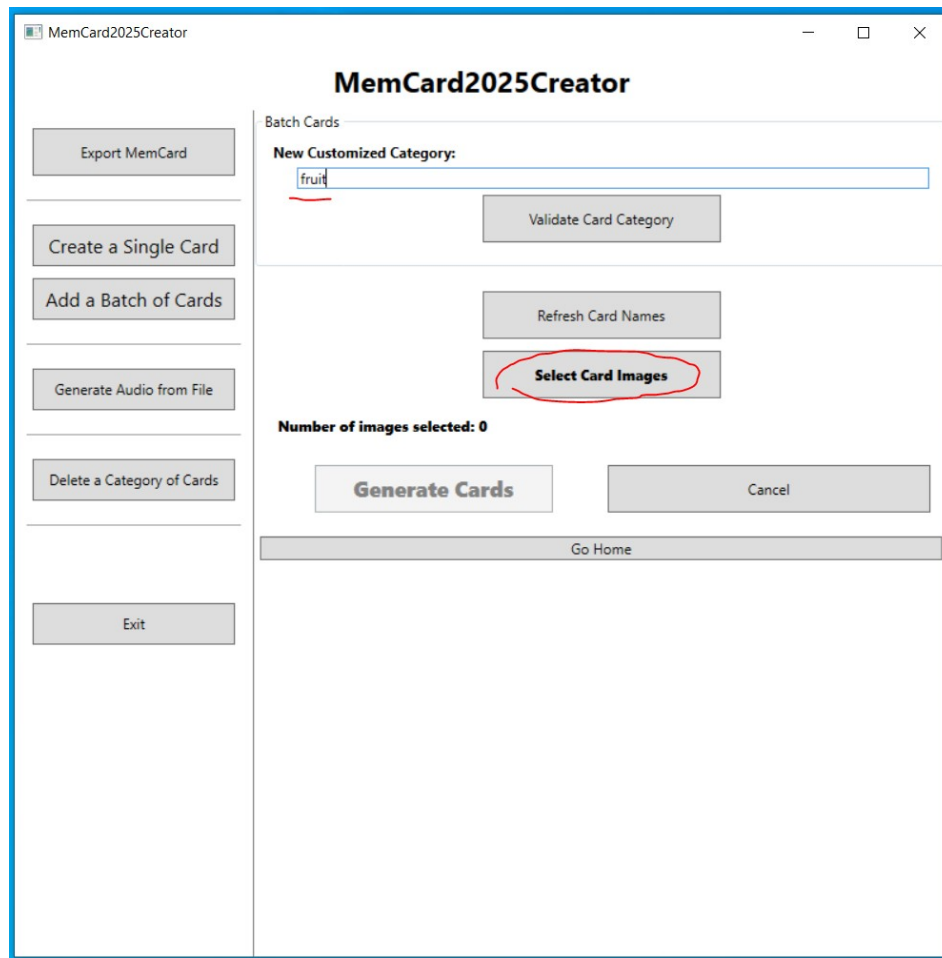


2.2 Select multiple image files by holding the Ctrl key and click select and click "Open"
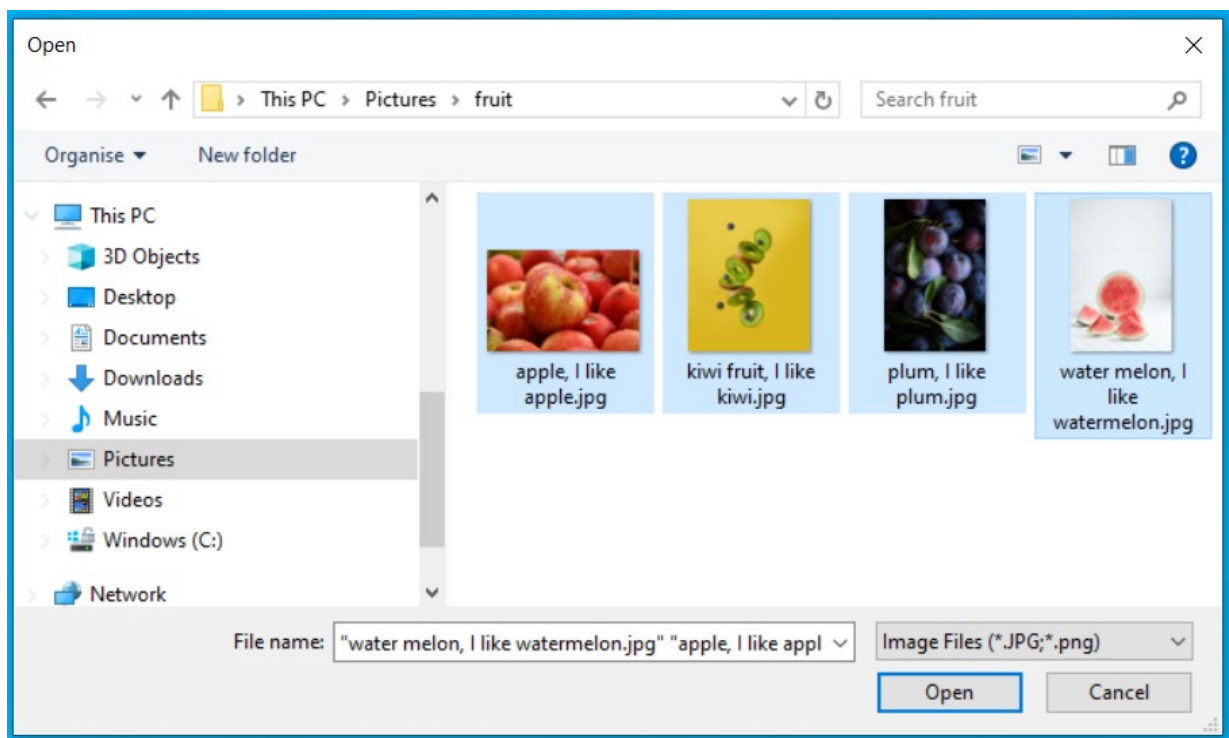
2.3 It shows the number of images selected, click "Generate Cards";



2.4 The original image file name will be used as card Alias and card subtitle text;
2.5 It generates audio files based on subtitle text;
2.6 Click "OK" in the message boxes and continue, until all finished.

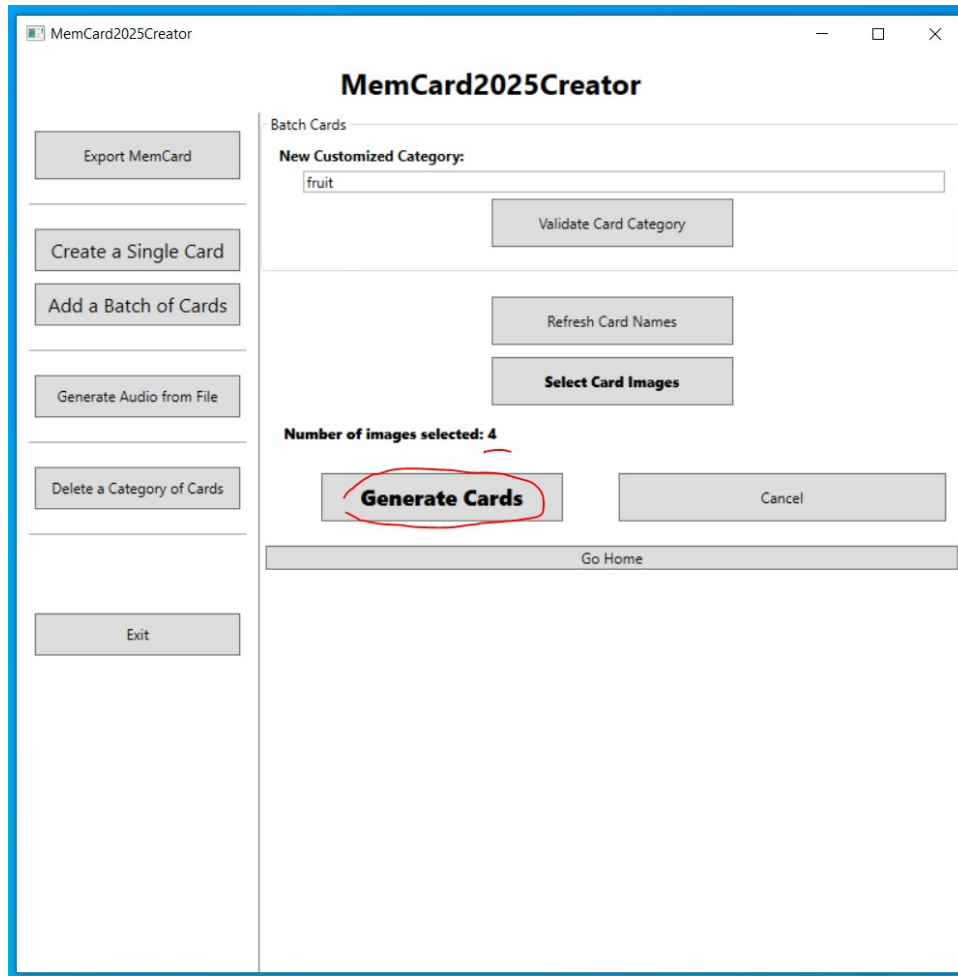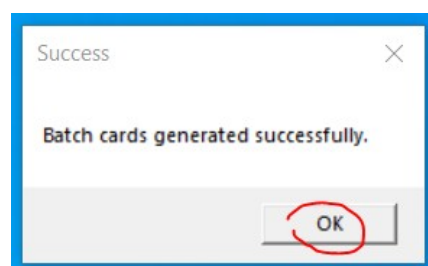**Function 8: MemCard2025Creator - "Generate Audio from File"**

In case the user wants to separate the process of adding images and audio/subtitle files, use "Generate Audio from File" to create audio and subtitle files in Runtime directory.

For example, the user added images in "pet" category with file names, which is hard to read, the creator can generate audio/subtitle files separately.
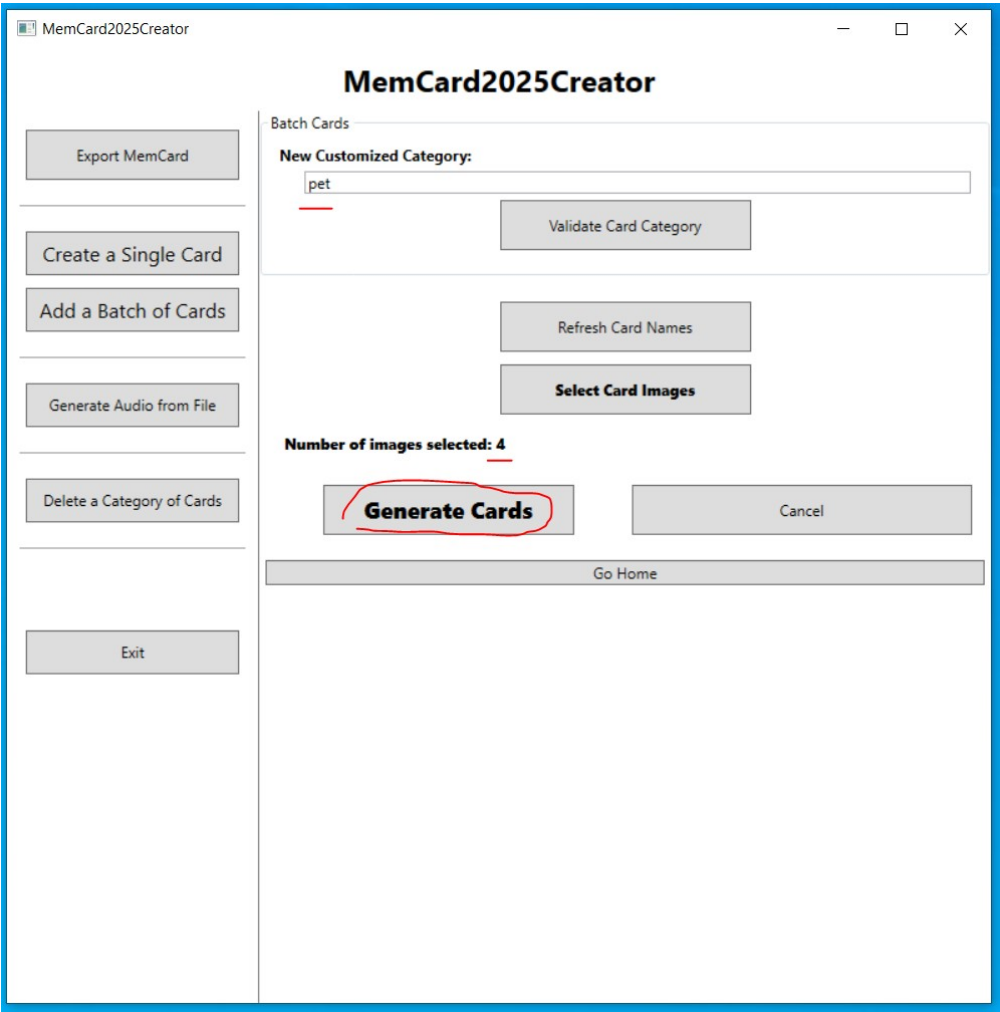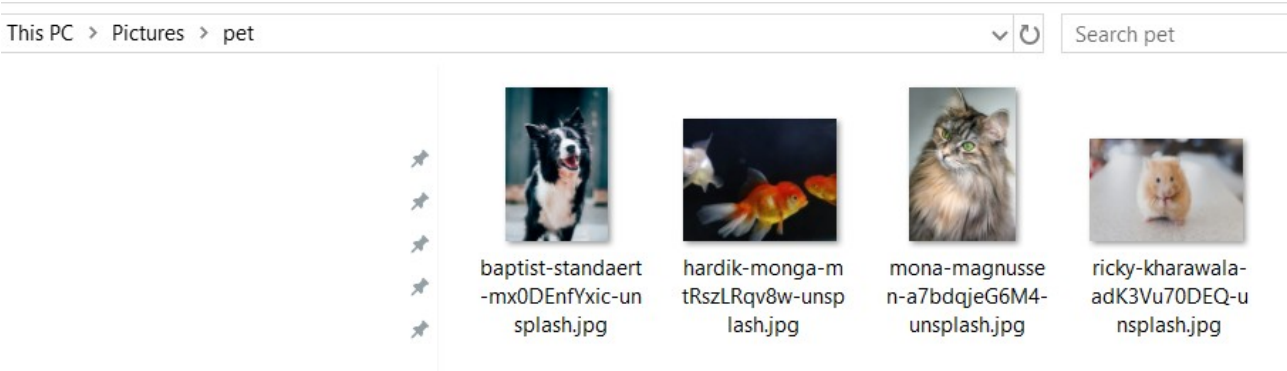
This generates unreadable subtitle and audio files.
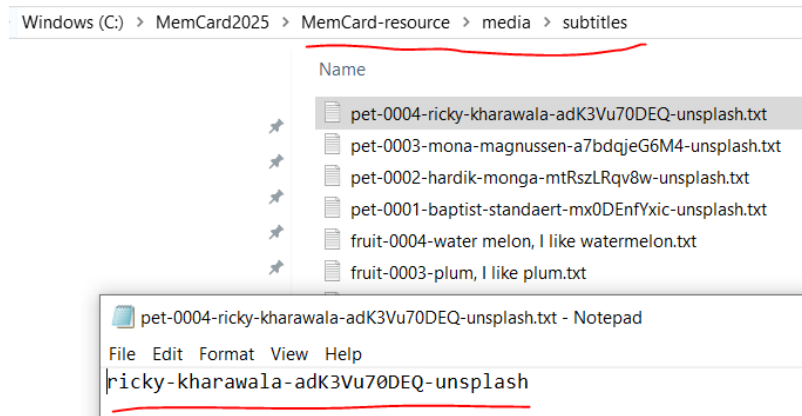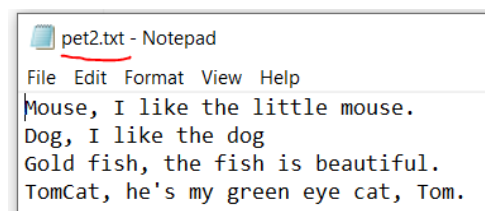


You may edit a script for reading.
Prepare a script text file, for example, pet2.txt
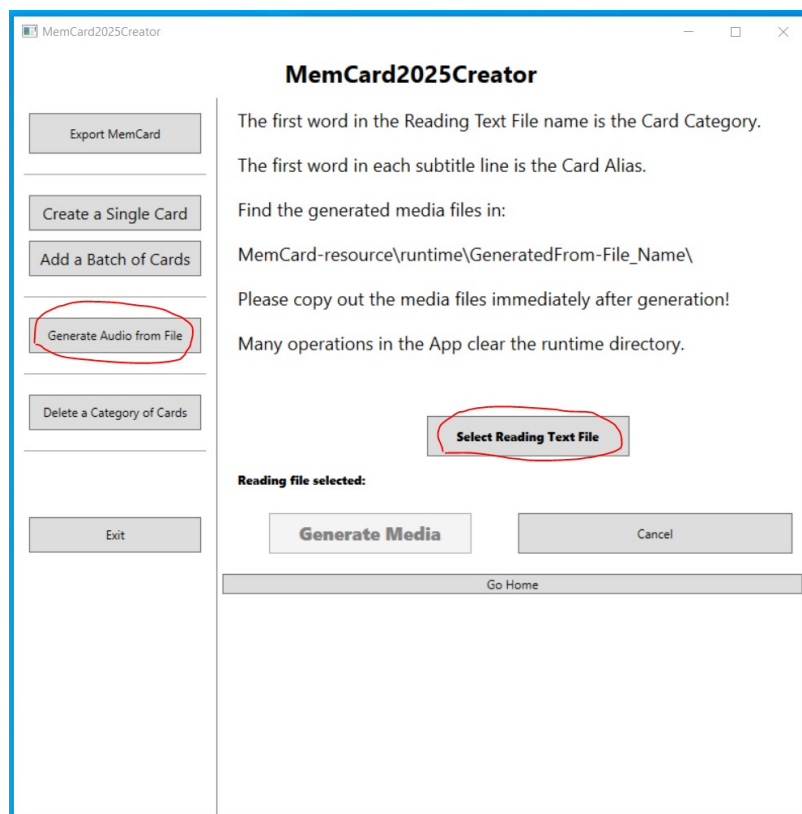1 It uses the first word in file name as the category name.
pet2.txt gets category name "pet".
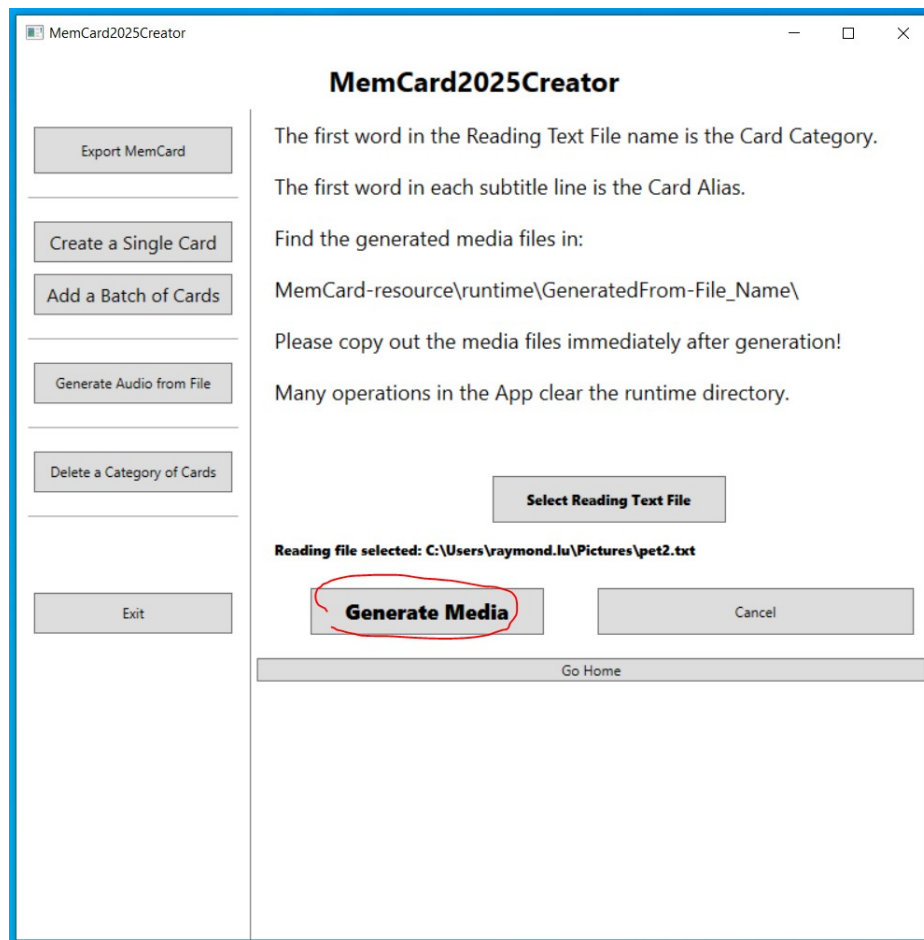2 Every line in pet2.txt will be a subtitle text for a card;
3 The first word of every line will be used as card Alias;



4 Click "Generate Audio from File" and select pet2.txt;
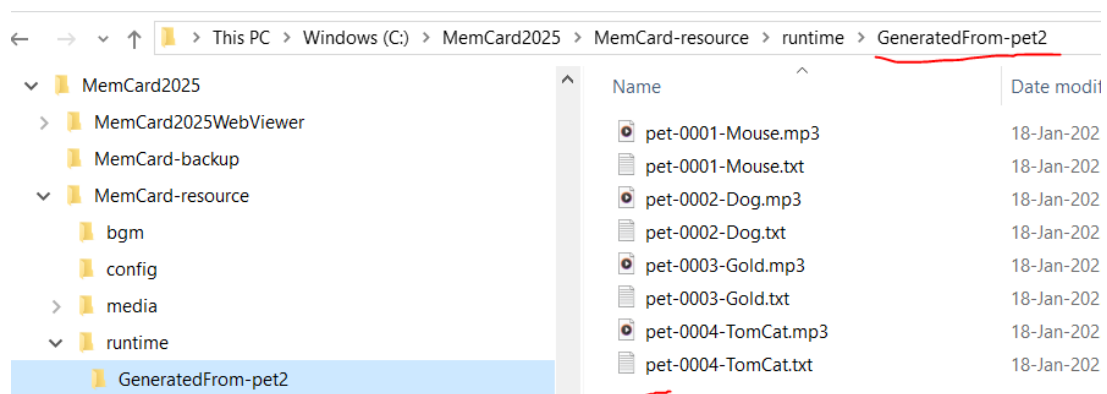
5 Click "Generate Media";



6 Find output in a folder named "GeneratedFrom-{filename}" in RUNTIME_FOLDER



7 Copy the audio and subtitle files to media directories and delete the media files with the same <Category>-<SubNumber>.

Audio Directory:       C:\MemCard2025\MemCard-resource\media\audio\
Subtitle Directory:    C:\MemCard2025\MemCard-resource\media\subtitles\

8 Rename card image file names and update the card names in card list file.

Image Directory: C:\MemCard2025\MemCard-resource\media\images\

Card List: C:\MemCard2025\MemCard-resource\config\card-list.txt
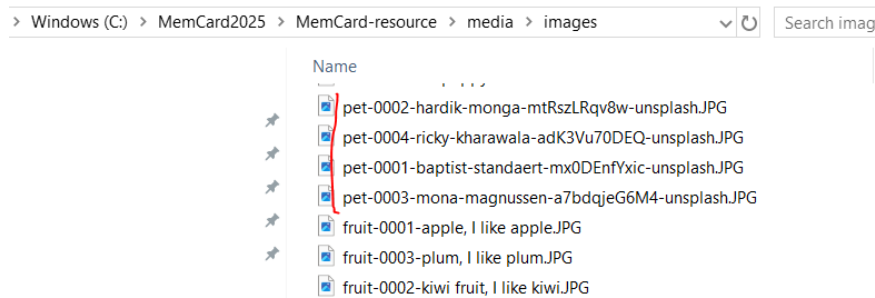


Change to:
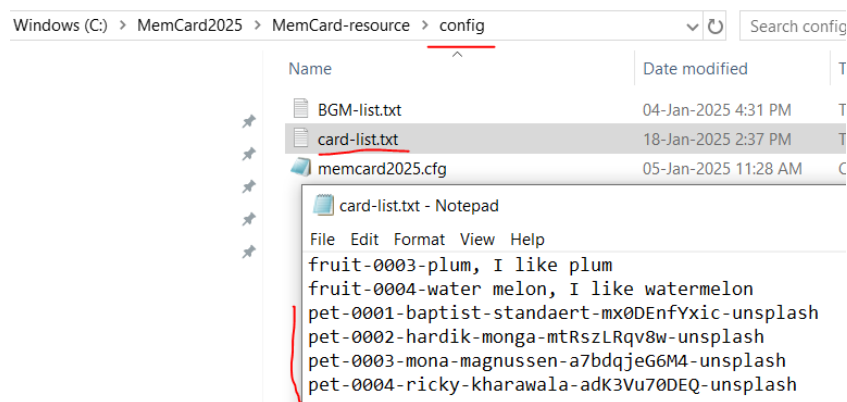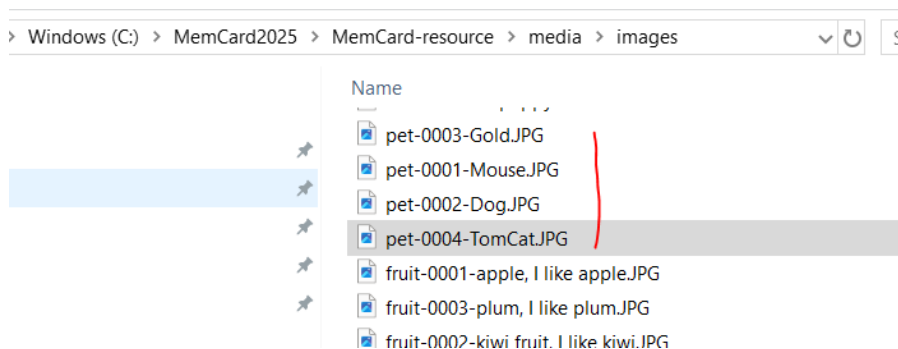




Change to:

Please note, the sequence of the card may vary, please double check the image with the numbers and card Alias.

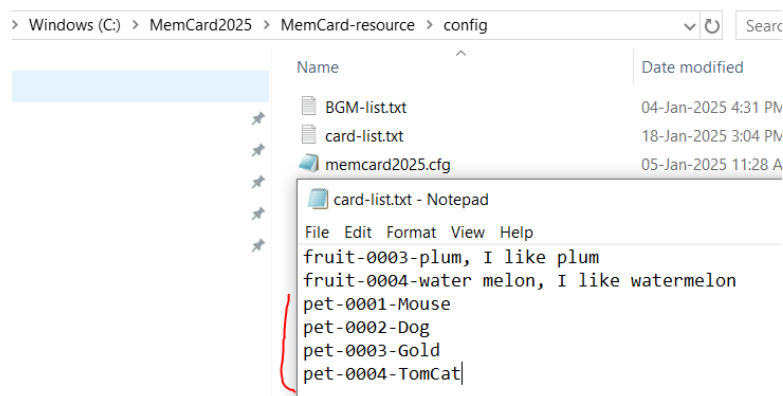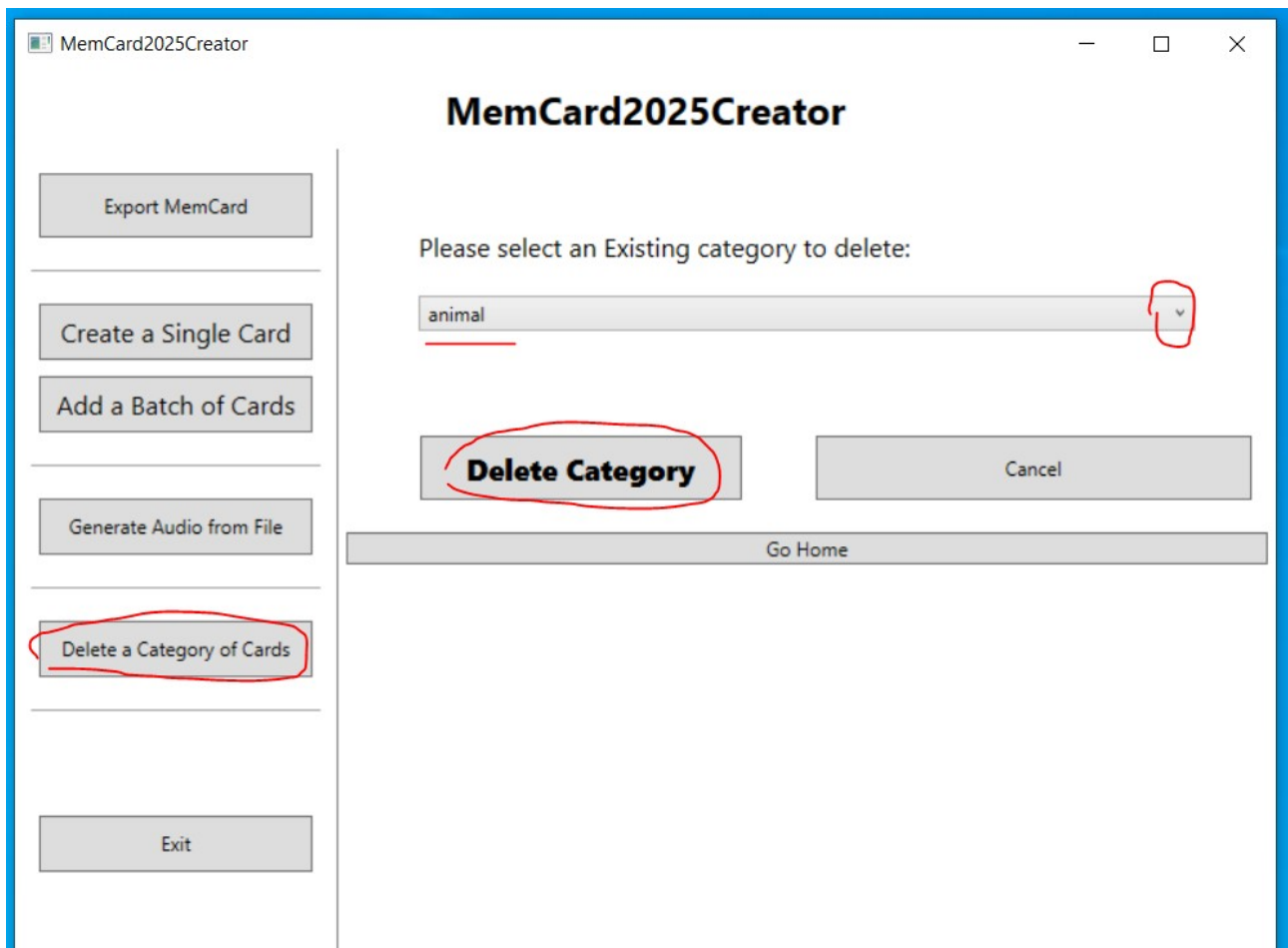**Function 9: MemCard2025Creator - "Delete a Category of Cards"**
Delete a category completely.

If you need to delete a single card, please delete the media files and remove the card name from card list file.

**Function 10: MemCard2025Creator - "Export MemCard"**

It compresses current MemCard-resource directory to MemCard-resource_{timestamp}.zip and save to MemCard-backup directory.
User can un-zip it and copy it to restore.
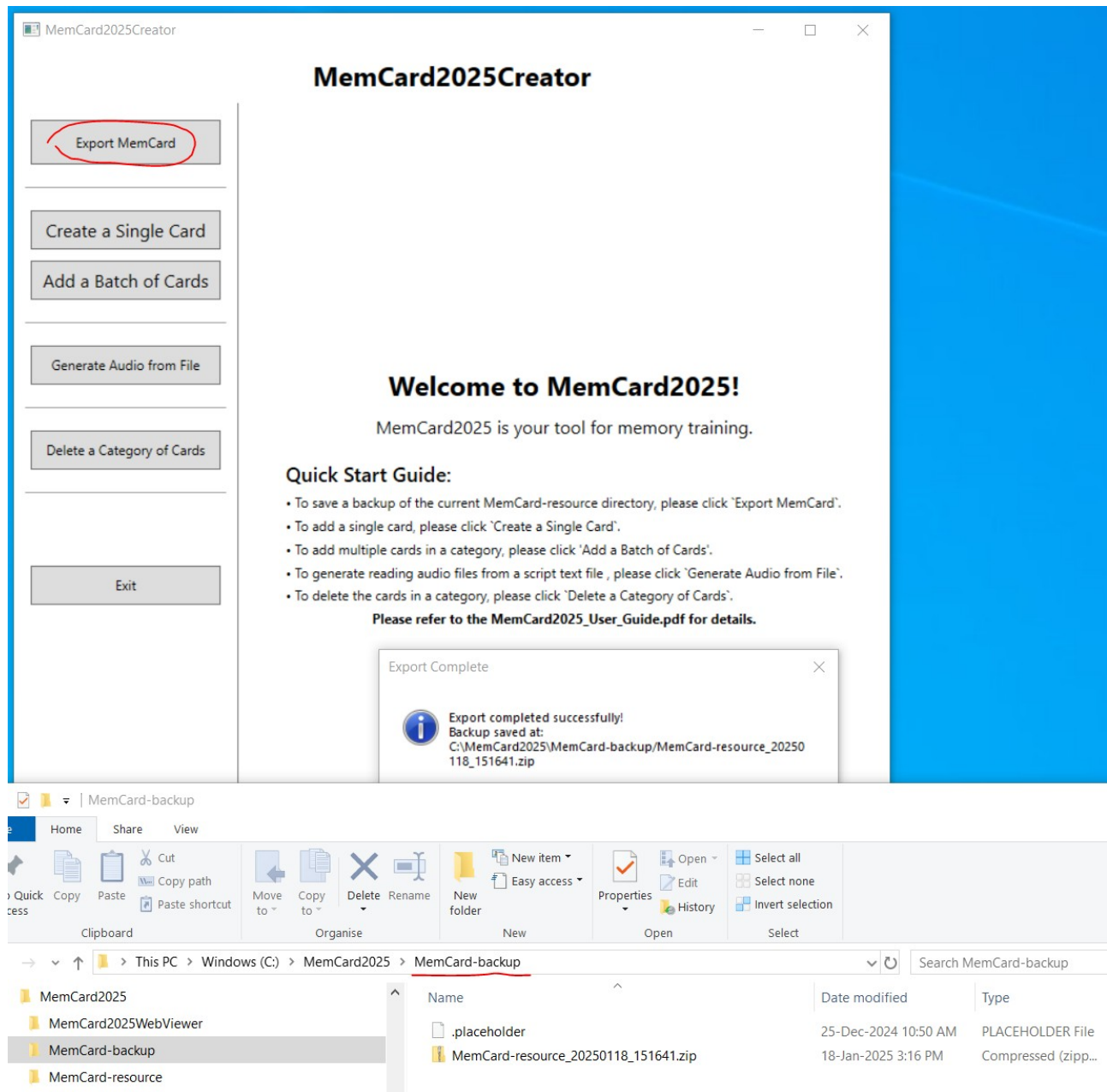


Function 11: Node.js start Web server and view by browser

1 Install Node.js from "https://nodejs.org/en/download/current" and verify installation by `node -v`

2 Install express package
```

npm init -y
npm install express
```

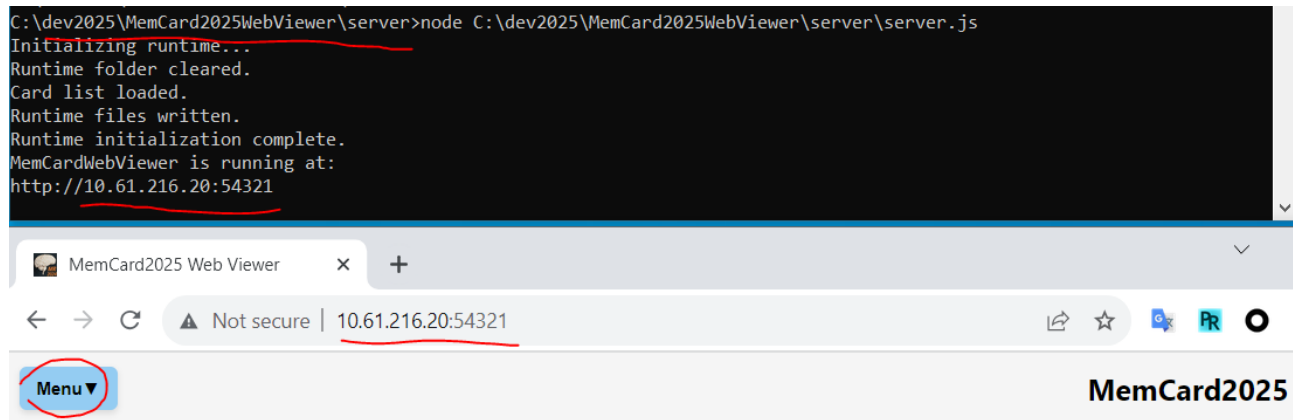3 Open a command prompt and change directory to the server directory:
```
cd C:\MemCard2025\MemCard2025WebViewer\server
node C:\MemCard2025\MemCard2025WebViewer\server\server.js
```
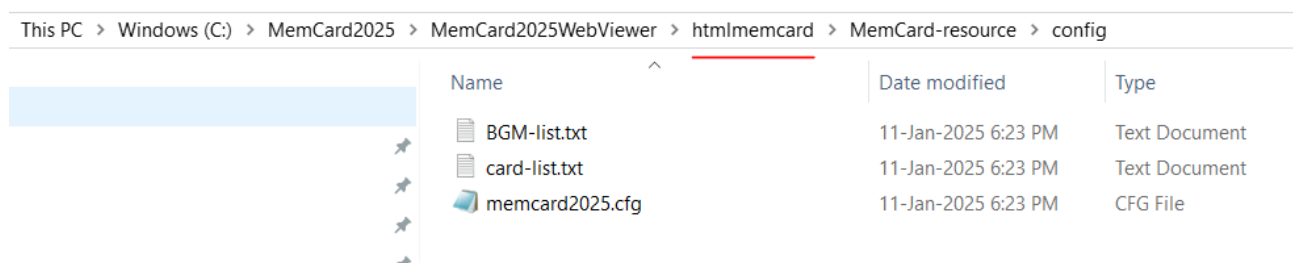
4 Open the URL by a browser and click Menu to start.



You may find the resource directory under htmlmemcard folder.

## Disclaimer

The Memory Card 2025 (MemCard2025) applications are designed for use within a private home local network environment.

To simplify its operation, The Memory Card Web Server and Viewer (MemCard2025WebViewer) uses HTTP instead of HTTPS, transferring data in plain text.

If users choose to expose the applications or their content to the Internet, they are solely responsible for implementing appropriate security measures to protect their privacy and any potential losses resulting from such exposure.