

Clarification Doc

Login Page (/login):

This page contains both the Sign-In and Sign-Up sections.(You can use bootstrap here)

- **Sign-In Section:**
 - Users can enter their username and password.
 - Basic user authentication is implemented using JWT tokens for password storage.
 - Upon successful login, users are redirected to their Home Page (/home).
 - **Sign-Up Section:**
 - Users can provide information such as username, password, name, and email.
 - Have a logout button
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Home Page (/home):

This page displays user details and a gallery of images they've uploaded.

- **User Details:**
 - Shows the user's information.
 - **Image Gallery:**
 - Displays all images uploaded by the user.
 - Two buttons are present: "Upload Images" and "Create a Video."
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Upload Images Page (/upload):

This page allows users to upload images via drag-and-drop.

- **Drag and Drop:**
 - Users can save the uploaded images.
 - You can use Drag and Drop file upload v4 - Bootstrap 5
 - Have save button here.

Create Video Page (/create):

This page assists users in creating a video from selected images.

- **Image Selection:**
 - Displays all uploaded images.
 - Each image has an "Add to List" button to include it in the selected images list.
- **Add Audio:**
 - Users can select from pre-existing audio files.
- The "Create Video" button is present.
- **Create Video Function (Pseudo Code):**

```
def create_video(image_list, audio_flag, audio_file):  
  
    for each image in image_list:  
        read image using cv2  
  
    create video_clip , frame_list using cv2  
    write frames to video_clip  
  
    if audio_flag is True:  
        load audio_file using MoviePy  
        combine video_clip and audio  
    return video
```

- **Preview Video:**
 - Users preview the created video.
 - No need to save the video on database
 - Have download option

SQL

(Basic data)

- Table : User Details
 - User Name

- User Email
- User password (Encrypted)
- User Images (may be image_id)
- User Id
- Table : Images
 - Image Id
 - User Id
 - Image (Blob Type) (For Milestone 3)
 - Image Metadata
- Table : Audio
 - Audio Blob
 - Audio Metadata (For Milestone 3)

Note:

This clarification document serves as a guide and does not replace the project requirements on Moodle. Please refer to the official project requirements for detailed instructions. If any difficulties arise, consider this document as supplementary assistance.