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**CLASS: COMPUTER ENGINEERING L200**

**TOPIC: IMAGE FORMAT CONVERTER**

**Overview**

Most people fines is difficult these days to get access to images they would want to download from the Internet due to its format which becomes unavailable to download. I propose to implement a change of picture format for MDS Company’s digital assets. This initiative aims to optimize image quality, file size, and compatibility across various platforms and devices.

**FEATURES**

* Upload Button: Provide a button or drag-and-drop area for users to upload their images to the website.
* Format Selection: Offer a dropdown menu or radio buttons for users to select the desired output format (e.g., JPEG, PNG, WebP).
* Quality/Compression Settings: Allow users to adjust image quality or compression settings based on their preferences or requirements.
* Preview: Display a preview of the uploaded image to give users a visual representation of the changes before proceeding with the conversion.
* Conversion Button: Include a button to initiate the conversion process once the user has selected the desired format and made any necessary adjustments.
* Progress Indicator: Show a progress bar or loading spinner to indicate that the conversion process is underway, especially for larger image files.
* Download Option: Provide a link or button for users to download the converted image once the conversion is complete.
* Error Handling: Implement error handling mechanisms to alert users if there are any issues with the uploaded image or during the conversion process.
* Supported Formats: Clearly communicate the supported input and output formats to users to avoid confusion.
* Optimization: Optimize the conversion process to ensure fast and efficient image processing, especially for larger files.
* Security: Implement security measures to protect user data and prevent unauthorized access to uploaded images.
* Responsive Design: Ensure that the feature is accessible and functional across different devices and screen sizes.
* Feedback Mechanism: Provide feedback to users upon successful conversion and offer assistance or troubleshooting tips in case of errors.

**USING SOFTWARE**

* Open the Image: Start by opening the image file you want to convert in an image editing software such as Adobe Photoshop, GIMP, or Paint.NET.
* Save As: Go to the “File” menu and select “Save As” or “Export As” option, depending on the software you are using.
* Choose New Format: In the save dialog box, you should see an option to select the format you want to convert the image to. Choose the use desired format from the available options (e.g., JPEG, PNG, GIF, etc.).
* Adjust Settings: Some software may offer additional settings or options for the selected format. Adjust these settings as needed, such as image quality, compression level, or transparency settings.
* Save: Once you’ve selected the format and adjusted any settings, click “Save” or “Export” to convert the image to the new format.

**CONSIDERATIONS**

* Quality: Most images may result in some loss of quality since we’re converting , especially if you’re converting to a format with lower compression or different compression algorithms.
* File Size: Different image formats have different file sizes. Consider the intended use of the image and any size limitations when choosing the new format.
* Transparency: If your image contains transparency (e.g., PNG with alpha channel), make sure the new format supports transparency if you want to preserve it.

**TIMELINE:**

Week 1: Initial assessment and planning phase.

Week 2-3: Development and testing of image conversion process.

Week 4-5: Implementation across digital platforms.

Week 6: Monitoring and optimization of image performance.

Week 7: Final review and documentation.

**CONCLUSION**

Creating an image converter would help students, graphic designers, web page developers and other companies to be able to use images of their preferences and easily get access to it. Being able to change your image format to different format like JPEG, PNG, WebP, make working easier for you.