|  |  |  |
| --- | --- | --- |
| RAZDA Co. | | |
| **Filename: [product\_images.py]** | | |
| **Summary***:*  Manages the uploading, storing, resizing, and removal of product images. Ensures all images meet quality standards and that paths are appropriately updated in the database. This module enhances product visual consistency across Razda Market. | | |
| ***Processes*** | | |
| * **Image Uploading** | **The upload\_image() function facilitates the uploading and storing of product images, ensuring the image meets file format requirements and is stored with a unique filename. Additionally, the product’s image path is updated in the database for seamless integration across the platform.** | |
| * **Image Deletion** | **The delete\_image() function enables the removal of product images from the database and file storage. This ensures outdated or incorrect images can be replaced easily, and disk space is managed efficiently.** | |
| **Files it Gets Information From:** | | **Files it Sends too:** |
| * **- Database: Retrieves and updates product image paths.** | * **- Logs (product\_images.log): Logs upload, delete, and any error events during image management for tracking purposes.** | |
| * **- Environment File (.env): Reads variables like image storage path, database host, and credentials.** |  | |
| **Expected input into file:** | | **Expected output from file:** |
| * **Image Data**: Product ID and image source path to upload the image. * **Product ID**: For image deletion or retrieval, the product ID is needed to locate the image in storage and the database. | | * **Confirmation Message**: Upon successful upload or deletion, logs the action and confirms completion * **Error Messages**: In case of failures, detailed error messages are logged and surfaced to the user. |
| **Things that need to be taking place:** | | |
| |  | | --- | | **- Image Path Management: Correctly save and update the path to each product’s image in the database.** |  |  | | --- | | **- File Type Check: Verify the image is in an allowed format (e.g., .png, .jpg) to maintain consistency.** |  |  | | --- | | **- File Directory Handling: Ensure image storage directories exist and are properly configured for accessibility.** |  |  | | --- | |  | | | |
| Edit log (update each time you make changes to doc or file). | | |
| | **Possible Enhancements:** | | --- |  |  | | --- | | - **Image Resizing**: Automatically resize images to standardized dimensions before saving, improving load times and consistency. |  |  | | --- | | - **Alternative Formats**: Extend support to additional formats (e.g., .webp for web optimization) or convert images upon upload. |  |  | | --- | | - **Automated Backups**: Backup old images before deletion for easy restoration in case of mistakes. |  |  | | --- | | - **Quality Control Checks**: Implement checks to ensure uploaded images meet size and resolution standards for uniformity. | | | |
| * Oliver Smith (Razda Admin) Nov 8, 2024: | | |