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| RAZDA Co. | | |
| **Filename: [design\_handler.py]** | | |
| **Summary***:*  This file handles the processing of design files, which includes resizing, converting, moving files, and conducting quality checks. The DesignHandler class is responsible for ensuring that all designs meet specified standards (e.g., size and format) and are ready for integration with factory workflows. It also includes optional cleanup functionality to manage storage effectively by removing outdated files from the output directory. | | |
| ***Processes*** | | |
| * **Initialize Directories** | * **The DesignHandler constructor initializes input and output directories based on environment variables, with the output directory created if it doesn't exist. Logging configuration is also set.** | |
| * **Process designs** | * **process\_designs retrieves and processes each file in the input directory by resizing, converting, and moving it to the output folder, logging each step.** | |
| * **Resize Design** | * **resize\_and\_convert resizes each design to 1080x1080 pixels and converts it to PNG format, ensuring compliance with factory requirements.** | |
| * **Move Deisgn** | * **move\_design moves each formatted file to the output directory after conversion, keeping the directory structure organized.** | |
| * **Cleanup Output Directory** | * **cleanup\_output\_dir (optional) deletes files in the output directory to clear space and prevent clutter, logging each deletion.** | |
| * **Check File Quality** | * **check\_file\_quality verifies that each design meets size (1080x1080) and format (PNG) standards, ensuring only compliant designs are processed further.** | |
| **Files it Gets Information From:** | | **Files it Sends too:** |
| * **Input Design Files**: Loads from DESIGN\_INPUT\_DIR, specified in environment variables, containing raw design files. | * **Output Directory**: Places formatted design files in DESIGN\_OUTPUT\_DIR, maintaining organized and compliant files ready for the next workflow stage. | |
| * **Environment Variables**: Uses DESIGN\_INPUT\_DIR and DESIGN\_OUTPUT\_DIR from .env for directory paths. | * **Logs Directory**: Creates entries in design\_handler.log for each event, error, and file movement or deletion, providing a clear log trail. | |
| **Expected input into file:** | | **Expected output from file:** |
| * - **Design Files**: Raw image files that may vary in size, format, and quality are loaded from the input directory. * **Quality Standards**: Ensures designs pass size and format checks (1080x1080 and PNG) before processing. * **Cleanup Requirements**: Optional cleanup removes outdated files to maintain storage efficiency. | | * **Formatted Files**: Output files meet the specified 1080x1080 size and PNG format, stored in the output directory. * **Logs**: Logs all actions, including processing steps, quality issues, and file movement, to design\_handler.log for transparency and tracking. * **Event Confirmation**: Prints success messages for logged events, errors, and deletions in the terminal. |
| **Things that need to be taking place:** | | |
| |  | | --- | | **- Environment Configuration: Ensure .env includes DESIGN\_INPUT\_DIR and DESIGN\_OUTPUT\_DIR, setting valid paths for input and output files.** |  |  | | --- | | **- Error Handling: Catch and log all exceptions, providing error context for troubleshooting.** |  |  | | --- | | **- Quality Assurance: Designs must pass check\_file\_quality for size and format before further processing, ensuring readiness for integration.** |  |  | | --- | | **- File Integrity Management: Ensure no file is left unprocessed in the input directory unless logged, helping maintain workflow consistency.** |  |  | | --- | | **- Optional Cleanup: cleanup\_output\_dir should be enabled only as needed to avoid unintended deletions; it is useful for storage management.** |  |  | | --- | |  | | | |
| Edit log (update each time you make changes to doc or file). | | |
| * Oliver Smith (Razda Admin) Nov 8, 2024: | | |