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| RAZDA Co. | | |
| **Filename: [banner.py]** | | |
| **Summary***:*  banner.py manages banner creation, display, and deletion for promotional or informational purposes on the site. It allows administrators to upload and manage images, set links for banners, and display banners dynamically based on user behavior or site conditions. The file includes validation for image formats and integrates with the database to store and retrieve banner information. | | |
| ***Processes*** | | |
| * **Manage Banners** | **manage\_banners() handles creating and displaying banners. Users can upload a banner with a title, image, and optional link. Validates image files and saves data to the database.** | |
| * **Allowed File Check** | **allowed\_file() checks the file extension to confirm it is in an acceptable format (e.g., png, jpg, gif) before processing the image.** | |
| * **Delete Banner** | **delete\_banner() removes a specific banner from the database and deletes its image file from storage. Provides success and error handling and logs actions.** | |
| **Files it Gets Information From:** | | **Files it Sends too:** |
| * **Environment**: DB\_HOST, DB\_USER, DB\_PASSWORD, DB\_NAME for database connections, UPLOAD\_FOLDER for storing images. | * **Database**: Stores banner information in banners table, including title, image filename, and link. | |
| * **Request & Form Data**: POST data from admin for banner title, image, and link when creating banners; banner\_id when deleting banners | * **Templates (manage\_banners.html)**: Displays list of current banners with options for adding and deleting banners. | |
| * **Static Directory (images)**: UPLOAD\_FOLDER to save and retrieve image files for the banners. | * **Logs**: Logs all actions (banner creation, retrieval, deletion) to banner.log. | |
| **Expected input into file:** | | **Expected output from file:** |
| - **Title**: Required input from the admin to identify the banner  - **Image File**: Expects an image file in an allowed format (png, jpg, jpeg, gif)  - **Link**: Optional URL link associated with the banner, navigable on click.  - **Banner ID**: Expects banner\_id from the admin for identifying the banner to delete. | | * **Banner List**: Renders manage\_banners.html with current banners for viewing and management. * **Flash Messages**: Indicates success or failure for banner creation and deletion operations. * **Log Output**: Logs successful or failed attempts at banner creation and deletion for admin reference. * **File System Actions**: Deletes image files from storage if a banner is removed. |
| **Things that need to be taking place:** | | |
| |  | | --- | | **- Image File Validation: Ensure images are validated for format and stored securely to prevent injection risks.** |  |  | | --- | | **- Database Integrity: Maintain consistent banner data in the database, especially if deleting records or images fails.** |  |  | | --- | | **- Dynamic Display Logic: Expand to allow different banners based on events or user behavior for targeted promotions.** |  |  | | --- | | **- Error Handling for Deletions: Handle errors if image files cannot be deleted from storage, ensuring a smooth admin experience.** |  |  | | --- | | **- User-Friendly Admin Feedback: Provide clear feedback for admins on actions, including file upload success, or database issues.** |  |  | | --- | |  | | | |
| Edit log (update each time you make changes to doc or file). | | |
| * Oliver Smith (Razda Admin) Nov 8, 2024: | | |