|  |  |  |
| --- | --- | --- |
| RAZDA Co. | | |
| **Filename: [page\_routing.py]** | | |
| **Summary***:*  Manages the routing for the Razda Market website, directing users to various site pages such as the home, about, contact, product details, and category pages. This file ensures logical navigation flows, providing URL paths for key pages and integrating modular routes for different functionalities like cart, checkout, wishlist, and notifications. | | |
| ***Processes*** | | |
| * **Render Home Page** | **Renders the home page, displaying featured products. Logs access to the home page.** | |
| * **Render About Page** | **Renders the about page, providing information about Razda Market. Logs access to the about page.** | |
| * **Render Contact Page** | **Renders the contact page. Logs access to the contact page.** | |
| * **View Product Details** | **Retrieves and renders details for a specific product. If the product doesn’t exist, redirects to the home page with a warning log.** | |
| * **View Category Page** | **Displays products within a specific category. If the category doesn’t exist, redirects to the home page with a warning log.** | |
| * **Register Blueprints** | **Registers external blueprints (e.g., cart, checkout, order history) for modular navigation and expanded functionality across the site.** | |
| **Files it Gets Information From:** | | **Files it Sends too:** |
| * user\_login.py: Provides the login\_required decorator to restrict access where needed (not directly used in this file but could apply to specific routes if needed in future). | * page\_routing.log: Logs user navigation actions, such as accessing specific pages, failed product/category retrievals, and navigation events. | |
| * product\_catalog.py: Accesses product data to display featured items, product details, and products by category. | * Template Files: Sends data to templates (e.g., home.html, about.html, product\_detail.html, category.html) for rendering views. | |
| * Blueprint Files (from WebsiteComp): cart.py, checkout.py, order\_history.py, wishlist.py, search.py, notifications.py to enable modular routes and extend page functionalities. |  | |
| **Expected input into file:** | | **Expected output from file:** |
| - **HTTP GET Requests**: User requests for different pages via routes such as /, /about, /contact, /product/<product\_id>, /categories/<category\_id>.  - **Blueprint Modules**: Other routes from imported blueprints (cart\_bp, checkout\_bp, etc.) extend the routing functionality available through this file.  - **Product/Category IDs**: Provided in URLs for routes like /product/<product\_id> and /categories/<category\_id>, these are used to fetch specific product or category details from the database. | | - **Rendered HTML Pages**: Returns rendered templates to the user for each route, populated with relevant data (e.g., featured products on home page, product details for specific products).  - **Logging Entries in page\_routing.log**: Logs page accesses, warnings for missing products/categories, and general navigation information.  - **Redirects**: If a requested product or category does not exist, redirects to the home page with a warning log. |
| **Things that need to be taking place:** | | |
| |  | | --- | | **- Template Availability: Ensure all templates (e.g., home.html, product\_detail.html, etc.) are available and correctly referenced in the routes.** |  |  | | --- | | **- Database Connection: The ProductCatalog class should have database access configured to retrieve product and category data as needed by various routes.** |  |  | | --- | | **- Error Handling: Gracefully handle missing products or categories, redirecting users to appropriate pages and logging warnings.** |  |  | | --- | | **- Modular Blueprint Integration: Verify that each imported blueprint (cart\_bp, checkout\_bp, etc.) is functional, so users can access related routes without issues.** |  |  | | --- | | **- Testing for Route Coverage: Test each route extensively to ensure they load correctly and that edge cases (e.g., invalid product or category IDs) are handled appropriately.** |  |  | | --- | |  | | | |
| Edit log (update each time you make changes to doc or file). | | |
| * Oliver Smith (Razda Admin) Nov 8, 2024: | | |