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| RAZDA Co. | | |
| **Filename: [discount\_manager.py]** | | |
| **Summary***:*  Manages product discounts, including creation, expiration handling, modification, and price adjustment based on discount application. Works with the pricing\_calculator.py module to adjust and calculate discounted prices. | | |
| ***Processes*** | | |
| * **Database Connection:** | **Establishes a database connection to Razda’s MySQL database (connect\_db) for accessing product and discount tables, logging connection status.** | |
| * **Discount Creation:** | **Creates a discount for specified products by setting discount percentage, description, and duration. Calls calculate\_new\_price from pricing\_calculator.py to adjust product prices based on discount (create\_discount).** | |
| * **Discount Expiration Handling:** | **Removes expired discounts, restores original product prices, and logs each operation (remove\_expired\_discounts). Also calls revert\_price to handle price adjustments when discounts expire.** | |
| * **Updating Product Prices Based on Discount:** | **Calculates the new price after applying the discount and updates it in the product database using calculate\_new\_price (update\_price). Logs price changes for tracking** | |
| * **Viewing Active Discounts:** | **Retrieves active discounts for product reviews, allowing Razda admins to view currently running promotions (view\_active\_discounts).** | |
| * **Discount Modification:** | **Enables modifications to discount percentage and duration for an existing discount, allowing flexibility in promotion adjustments (modify\_discount).** | |
| **Files it Gets Information From:** | | **Files it Sends too:** |
| * **pricing\_calculator.py**: Calls calculate\_new\_price to determine adjusted prices after discounts are applied or removed. | * **MySQL Database (razda\_market\_db)**: Reads and updates product prices and discount information in relevant tables. | |
| * **support\_tickets** (Database Table): Interacts with this table to store discount data, retrieve product pricing, and manage discount duration and status changes. |  | |
| **Expected input into file:** | | **Expected output from file:** |
| * **Product ID and Discount Data**: Product IDs, discount percentages, descriptions, and duration to apply and track discounts. * **Database Connection Parameters**: Environment configurations for MySQL database access. * **Discount Modifications**: Allows input for modifying existing discounts, including new percentages and extended durations. | | * **Updated Product Prices**: Adjusts product prices based on the current discount and updates prices when discounts expire or are removed. * **Active and Expired Discount Data**: Outputs records of active and expired discounts for review and analysis. * **Logs for All Discount Operations**: Records all actions taken with discounts for tracking, analysis, and troubleshooting. |
| **Things that need to be taking place:** | | |
| |  | | --- | | **- Reliable Database Connection: Continuous access to MySQL database for storing, updating, and retrieving discount and product pricing data.** |  |  | | --- | | **- Accurate Price Calculation: Ensures accurate price adjustments by integrating with pricing\_calculator.py for discount applications and reversion.** |  |  | | --- | | **- Discount Expiration Management: Tracks expiration dates and removes discounts promptly, reverting product prices to original values when necessary.** |  |  | | --- | | **- Flexible Modification and Viewing: Enables viewing and modification of active discounts, providing Razda admins with control over promotions.** |  |  | | --- | |  | | | |
| Edit log (update each time you make changes to doc or file). | | |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | | **Possible Enhancements:** | | --- |  |  | | --- | | **- Automated Expiration Reminders: Implement notifications for upcoming discount expirations to alert admins for potential renewal or adjustment.** |  |  | | --- | | **- Seasonal and Bulk Discount Management: Enable categories or discount types (e.g., seasonal discounts, bulk order discounts) to streamline promotional strategies.** |  |  | | --- | | **- Enhanced Discount Analysis Dashboard: Display performance metrics and statistics for each discount, including usage rates and revenue impact, to aid in promotional analysis.** |  |  | | --- | | **- Multi-Layered Discount Stacking: Allow discount stacking with conditions to increase flexibility and appeal to different customer segments.** | | | | |
| * Oliver Smith (Razda Admin) Nov 8, 2024: | | |