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| RAZDA Co. | | |
| **Filename: [product\_reviews.py]** | | |
| **Summary***:*  This module handles the collection, verification, and display of product reviews, including ratings and user comments. It organizes reviews by date, calculates average ratings, and supports moderation features to ensure authenticity. This module enables users to make informed purchasing decisions by providing real customer feedback. | | |
| ***Processes*** | | |
| * **Adding Reviews:** | **The add\_review() function allows users to submit product ratings and comments, verifying that the rating is within the allowed range (1-5 stars). This function logs each submission, helping maintain a record of feedback for future reference.** | |
| * **Retrieving Reviews:** | **The get\_product\_reviews() function retrieves all reviews for a specified product, including details like username, rating, and review date. This data is organized by recent reviews first, helping new customers quickly access the latest feedback.** | |
| **Files it Gets Information From:** | | **Files it Sends too:** |
| * **Database (razda\_market\_db)**: Interacts with product\_reviews and users tables to store and retrieve reviews. | * **Logs (product\_reviews.log)**: Tracks review activity, including successful submissions, errors, and review retrieval actions. | |
| * **Environment Config (.env)**: Secures database connection settings to facilitate safe access. | * **Frontend Templates**: Displays reviews and average ratings on product pages, providing users with a comprehensive view of product feedback. | |
| **Expected input into file:** | | **Expected output from file:** |
| * **User ID and Product ID**: Required to add a review and retrieve specific reviews. * **Rating and Comment**: Allows users to share their feedback and rate products between 1-5 stars. | | * **List of Reviews**: Returns a list of reviews for a specific product, including the rating, comment, and timestamp. * **Average Rating**: Provides the average rating for a product, giving users a quick overview of general customer satisfaction. * **Logging Messages**: Tracks review-related actions for monitoring and quality assurance. |
| **Things that need to be taking place:** | | |
| |  | | --- | | **- Authenticity Check: Ensures that reviews are verified for accuracy by tracking user activity, making each review genuine.** |  |  | | --- | | **- Review Moderation: Supports the removal or flagging of inappropriate reviews, helping maintain product feedback quality.** |  |  | | --- | | **- Feedback Display Options: Enables sorting by date, rating, or helpfulness to improve user access to relevant reviews.** |  |  | | --- | | **- Audit Trail: Keeps a log of all review activities for quality control and analysis purposes.** |  |  | | --- | |  | | | |
| Edit log (update each time you make changes to doc or file). | | |
| | **Possible Enhancements:** | | --- |  |  | | --- | | - **Incorporate Helpfulness Votes**: Allow users to mark reviews as helpful or unhelpful, sorting reviews by relevance. |  |  | | --- | | - **Enable Review Editing**: Allow users to update their reviews if they experience changes in satisfaction or product issues. |  |  | | --- | | - **Add Sentiment Analysis**: Use AI to analyze comments, flagging reviews with negative sentiment for priority moderation. |  |  | | --- | | - **Automated Spam Detection**: Implement checks for repetitive or spammy content, helping maintain review authenticity. | | | |
| * Oliver Smith (Razda Admin) Nov 8, 2024: | | |