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| RAZDA Co. | | |
| **Filename: [market\_dashboard.py]** | | |
| **Summary***:*  Provides the main dashboard for market admins, displaying key performance metrics, product management options, sales analytics, customer feedback, and notifications. | | |
| ***Processes*** | | |
| * **Dashboard Overview:** | **Main entry point for market admins to view metrics such as product inventory, sales reports, top performers, and customer feedback (market\_dashboard).** | |
| * **Add, edit, and Delete Products:** | **Allows admins to add new products, edit existing product details (name, description, price, category, inventory), and delete products, all with logging and permission checks (add\_product, edit\_product, delete\_product).** | |
| * **Sales Analytics:** | **Displays detailed sales analytics with revenue trends, top-performing products, and seasonal insights (sales\_analytics).** | |
| * **Order Overview:** | **Provides a view of recent orders, showing statuses, customer details, and fulfillment progress, enabling admins to monitor the order pipeline (order\_overview).** | |
| * **Customer Feedback:** | **Lists recent customer feedback for proactive engagement and resolution of issues, helping improve customer satisfaction (customer\_feedback).** | |
| * **Notifications:** | **Shows all notifications relevant to the market admin, keeping them informed on important events, alerts, and updates (notifications)** | |
| **Files it Gets Information From:** | | **Files it Sends too:** |
| * **permissions\_management.py**: Enforces role-based access, allowing only market admins to view and modify dashboard content. | * **Database (razda\_market\_db)**: Updates product information, fetches feedback and sales analytics, and manages product-related data for display on the dashboard. | |
| * **product\_catalog.py**: Provides access to product details, additions, updates, and deletions in the catalog | * **HTML Templates**: Renders templates like market\_dashboard.html, add\_market\_product.html, sales\_analytics.html with specific data for visual display. | |
| * **pricing\_manager.py**: Manages pricing data for products during addition and editing workflows. | * **Logs (market\_dashboard.log)**: Logs each admin action, like adding or deleting a product, accessing the dashboard, and fetching analytics, for auditing purposes. | |
| * **inventory\_status.py**: Checks inventory status for low stock alerts and provides inventory insights for the dashboard. |  | |
| * **sales\_analytics.py**: Accesses sales performance data for display in analytics views, including top-seller reports and sales trends. |  | |
| * **customer\_communications.py**: Retrieves recent feedback and handles customer interactions. |  | |
| * **product\_categories.py**: Fetches category data for categorizing new or updated products. |  | |
| **Expected input into file:** | | **Expected output from file:** |
| * **User Permissions**: Requires session data and user role to ensure only authorized admins access the dashboard. * **Product Details**: Inputs like product name, price, description, and inventory count for adding or editing products * **Category and Inventory Data**: Uses category IDs and inventory counts to manage products efficiently. | | * **Rendered HTML Pages**: Displays data-rich pages such as market\_dashboard.html, sales\_analytics.html, and order\_overview.html with metrics and product data. * **Flash Messages**: Shows success or error messages after actions like adding, editing, or deleting a product. * **Logged User Actions**: Logs each user interaction with the dashboard, aiding in tracking and auditing actions taken by admins. |
| **Things that need to be taking place:** | | |
| |  | | --- | | **- Secure User Access: Implements role-based access to ensure only authorized admins access the dashboard functionalities.** |  |  | | --- | | **- Data Accuracy: Ensures accurate data display, including up-to-date product information, inventory status, and sales analytics.** |  |  | | --- | | **- Comprehensive Logging: Logs each interaction, such as product addition or deletion, to provide a clear history of admin actions.** |  |  | | --- | | **- Interactive Interface: Allows admins to manage products, view analytics, respond to feedback, and check notifications, enhancing admin control over the marketplace.** |  |  | | --- | |  | | | |
| Edit log (update each time you make changes to doc or file). | | |
| | **Possible Enhancements:** | | --- |  |  | | --- | | - **Real-Time Analytics Dashboard**: Integrate live data visualizations for instant insights on sales performance, inventory levels, and customer feedback trends. |  |  | | --- | | - **Automated Product Recommendation**: Generate insights based on top-performing products and customer preferences, suggesting products to feature or promote. |  |  | | --- | | - **Inventory Forecasting Alerts**: Send alerts to admins when inventory levels of top-performing products are predicted to run low. |  |  | | --- | | - **Customer Sentiment Analysis**: Integrate sentiment analysis in feedback to prioritize responses to dissatisfied customers. | | | |
| * Oliver Smith (Razda Admin) Nov 8, 2024: | | |