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| RAZDA Co. | | | |
| **Filename: [admin\_analytics\_dashboard.py]** | | | |
| **Summary***:*  *This file defines the main analytics dashboard for administrators in Razda Market. It provides a comprehensive overview of sales, inventory status, customer communications, and order statistics. Access is restricted to users with admin privileges, validated via session management. The dashboard serves as a control panel for administrators to monitor and manage key aspects of the marketplace.* | | | |
| ***Processes*** | | | |
| **[Data Retrieval]:** | **[User Role Management]:** | |  | | --- | | **[Order Summary Generation]:** | | |  | | --- | | **[Customer Feedback Management]:** |  |  | | --- | |  | |
| Fetches daily and weekly sales reports, inventory statuses, and recent inquiries. | Allows admins to manage user roles and permissions, granting or revoking access to dashboard sections. | |  | | --- | | Displays recent orders and highlights top products, with a status breakdown for monitoring fulfillment. |  |  | | --- | |  | | Shows recent customer inquiries and enables direct responses, with logging for follow-up. |
| **Files it Gets Information From:** | | **Files it Sends too:** | |
| * permissions\_management.py: Validates admin access and manages roles. | | * Templates: admin\_dashboard.html, sales\_trends.html, order\_summary.html, customer\_feedback.html, analytics.html, manage\_permissions.html for UI components and data displays. | |
| * sales\_reports.py: fetches detailed sales data and trends | | * Logs: logs/admin\_analytics\_dashboard.log for auditing actions. | |
| * inventory\_manager.py: Checks inventory status for the dashboard | |  | |
| * customer\_communications.py: Retrieves recent inquiries and enables responses. | |  | |
| * order\_management.py: Provides order summary statistics and breakdowns | |  | |
| **Expected input into file:** | | **Expected output from file:** | |
| # Session Data: Used to validate admin # access  #Form Data (for POST requests)  ‘’’python  Session = { “user\_id”:123,  “role”:”admin” }  ‘’’  # Request Parameters: Used for data range filering  ‘’’python  request.args.get(“start\_date”) request.args.get(“end\_date”) ‘’’ | | # Rendered HTML Pages: Content for templates. Including sales data, inventory, inquiries, and order summaries.  Log Entries: Records admin actions like dashboard access and inquiry resolutions  ‘’’python  log\_entry={ “timestamp”:”2024-11-08 10:00:00”, “level”:”INFO”,  “message”:”Admin accessed main dashboard” }  Flash Messagse: Notifications displayed in the dashboard  ‘’’python  flash(“User role updated successfully”, “success”) ‘’’ | |
| **Things that need to be taking place:** | | | |
| * **Session Validation: Ensures only admin users access the dashboard.**  |  | | --- | | * **Periodic Data Refresh: Sales and inventory data must be updated regularly to reflect real-time analytics.** * **Error Handling: Implements fallback mechanisms to maintain continuity in case of data retrieval issues.** |  |  | | --- | |  | | | | |
| Edit log (update each time you make changes to doc or file). | | | |
| * Oliver Smith (Razda Admin) Nov 8, 2024: Added data retrieval processes and verified permissions management functions. | | | |