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| RAZDA Co. | | |
| **Filename: [order\_management.py]** | | |
| **Summary***:*  Manages customer orders, including viewing, updating, deleting, and handling returns. Supports bulk updates and order tracking, providing admins with the ability to monitor and adjust order details as needed. | | |
| ***Processes*** | | |
| * **View All Orders:** | **Fetches a paginated list of all orders with optional filtering by status, user, and date for easy order management and monitoring (view\_all\_orders).** | |
| * **Manage Order:** | **Provides admins with order details, allowing status updates and notifications for customers on order progress (manage\_order).** | |
| * **Manage Return:** | **Handles returns for a specific order, including logging return reasons and updating order status to reflect the return (manage\_return).** | |
| * **Delete Order:** | **Deletes an order from the system, removing it from the database and logging the deletion for tracking (delete\_order)** | |
| * **Bulk Update Orders:** | **Allows admins to update the statuses of multiple orders in a single operation, supporting efficient management of large order volumes (bulk\_update\_orders).** | |
| * **Track Order:** | **Retrieves tracking information for a specific order to provide real-time delivery updates and customer support (track\_order).** | |
| **Files it Gets Information From:** | | **Files it Sends too:** |
| * **product\_catalog.py**: Provides access to order details, tracking information, and order management functions (creation, update, deletion). | * **Database (razda\_market\_db)**: Stores and updates all order-related data, including order statuses, return reasons, and tracking information. | |
| * **user\_login.py**: Ensures that only authorized admin users can access order management functions. | * **Logs (order\_management.log)**: Records admin actions, including viewing, updating, deleting, and tracking orders, for transparency and auditing. | |
| * **customer\_communications.py**: Sends notifications to customers about order status changes, returns, or updates. |  | |
| **Expected input into file:** | | **Expected output from file:** |
| * **Admin Authorization**: Checks that only admin users can access order management routes, ensuring secure and controlled access. * **Order ID**: Used for accessing specific order details, managing returns, updating statuses, and tracking information. * **Optional Filters**: Filters such as status, user, and date for sorting and displaying relevant orders efficiently. | | * **Order List**: Displays a paginated list of orders to the admin, including any applied filters (e.g., by status, user, or date). * **Order Status Updates**: Updates and displays the status of individual or multiple orders as processed, shipped, or completed. * **Return Confirmation**: Provides admins with a status update confirming that a return was processed successfully. |
| **Things that need to be taking place:** | | |
| |  | | --- | | **- Admin Access Control: Ensures only authorized users can access order management functionalities, with login verification on all routes.** |  |  | | --- | | **- Data Consistency: Prevents unauthorized or invalid updates to order data by ensuring all input data is validated before processing.** |  |  | | --- | | **- Comprehensive Logging: Records all actions taken on orders by admins, providing an audit trail for future reference and compliance.** |  |  | | --- | | **- Efficient Bulk Operations: Supports bulk updates for order statuses to allow admins to manage large order volumes without repeated actions.** |  |  | | --- | |  | | | |
| Edit log (update each time you make changes to doc or file). | | |
| | **Possible Enhancements:** | | --- |  |  | | --- | | - **Automated Notifications for Returns**: Sends automatic email notifications to customers when return processing is initiated and completed. |  |  | | --- | | - **Enhanced Filtering Options**: Adds additional filters, such as order amount or product type, for more granular order viewing. |  |  | | --- | | - **Order History Tracking**: Implements a history feature for each order, allowing admins to see past changes and actions taken on individual orders. |  |  | | --- | | - **Customizable Order Views**: Allows admins to customize the order list view to prioritize columns (e.g., by date, customer name, or amount). | | | |
| * Oliver Smith (Razda Admin) Nov 8, 2024: | | |

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