### 1. ****Home View (****home\_view****)****

* **User Action**: When a user visits the homepage.
* **Machine Response**:
  + Fetches all products from the database.
  + Checks if the user has any products in their cart by reading product\_ids from cookies.
  + If the user is authenticated, redirects them to the afterlogin view.
  + Renders the homepage with a list of products and the cart count.

### 2. ****Admin Click View (****adminclick\_view****)****

* **User Action**: When a user clicks on the admin login button.
* **Machine Response**:
  + Checks if the user is authenticated. If so, redirects them to afterlogin.
  + Otherwise, redirects to the admin login page.

### 3. ****Customer Signup View (****customer\_signup\_view****)****

* **User Action**: When a user submits the signup form.
* **Machine Response**:
  + Displays the signup form if the request method is GET.
  + If POST, validates the form data.
  + Creates a new user and customer profile in the database.
  + Assigns the new user to the 'CUSTOMER' group.
  + Redirects the user to the login page.

### 4. ****After Login View (****afterlogin\_view****)****

* **User Action**: After a user logs in.
* **Machine Response**:
  + Checks if the user belongs to the 'CUSTOMER' group.
  + Redirects the user to the appropriate dashboard (customer-home or admin-dashboard).

### 5. ****Admin Dashboard View (****admin\_dashboard\_view****)****

* **User Action**: Admin views the dashboard.
* **Machine Response**:
  + Ensures the user is an admin.
  + Fetches counts for customers, products, and orders.
  + Fetches recent orders and associated products and customers.
  + Renders the admin dashboard with this data.

### 6. ****View Customer View (****view\_customer\_view****)****

* **User Action**: Admin views the list of customers.
* **Machine Response**:
  + Fetches all customers from the database.
  + Renders the view with the list of customers.

### 7. ****Delete Customer View (****delete\_customer\_view****)****

* **User Action**: Admin deletes a customer.
* **Machine Response**:
  + Deletes the customer and associated user from the database.
  + Redirects back to the customer list view.

### 8. ****Update Customer View (****update\_customer\_view****)****

* **User Action**: Admin updates a customer's details.
* **Machine Response**:
  + Displays the customer's existing details in a form if GET.
  + On POST, updates the customer's data in the database.
  + Redirects back to the customer list view.

### 9. ****Admin Products View (****admin\_products\_view****)****

* **User Action**: Admin views the list of products.
* **Machine Response**:
  + Fetches all products from the database.
  + Renders the product list view.

### 10. ****Admin Add Product View (****admin\_add\_product\_view****)****

* **User Action**: Admin adds a new product.
* **Machine Response**:
  + Displays a form to add a new product if GET.
  + On POST, validates and saves the new product to the database.
  + Redirects to the product list view.

### 11. ****Delete Product View (****delete\_product\_view****)****

* **User Action**: Admin deletes a product.
* **Machine Response**:
  + Deletes the selected product from the database.
  + Redirects to the product list view.

### 12. ****Update Product View (****update\_product\_view****)****

* **User Action**: Admin updates a product's details.
* **Machine Response**:
  + Displays the product's existing details in a form if GET.
  + On POST, updates the product's data in the database.
  + Redirects to the product list view.

### 13. ****Admin View Booking View (****admin\_view\_booking\_view****)****

* **User Action**: Admin views orders (bookings).
* **Machine Response**:
  + Fetches all orders along with associated products and customers.
  + Renders the orders view with this data.

### 14. ****Delete Order View (****delete\_order\_view****)****

* **User Action**: Admin deletes an order.
* **Machine Response**:
  + Deletes the selected order from the database.
  + Redirects to the orders list view.

### 15. ****Update Order View (****update\_order\_view****)****

* **User Action**: Admin updates an order's status.
* **Machine Response**:
  + Displays the order's current status in a form if GET.
  + On POST, updates the order's status in the database.
  + Redirects to the orders list view.

### 16. ****View Feedback View (****view\_feedback\_view****)****

* **User Action**: Admin views customer feedback.
* **Machine Response**:
  + Fetches all feedback from the database.
  + Renders the feedback list view.

### 17. ****Search View (****search\_view****)****

* **User Action**: Customer searches for a product.
* **Machine Response**:
  + Fetches products matching the search query from the database.
  + Renders the search results page, showing the relevant products and cart count.

### 18. ****Add to Cart View (****add\_to\_cart\_view****)****

* **User Action**: Customer adds a product to their cart.
* **Machine Response**:
  + Fetches all products for display.
  + Updates the product\_ids cookie with the newly added product ID.
  + Renders the homepage with the updated cart count.

### 19. ****Cart View (****cart\_view****)****

* **User Action**: Customer views their cart.
* **Machine Response**:
  + Fetches product details from the database for products in the cart.
  + Calculates the total price of items in the cart.
  + Renders the cart view with the product details and total price.

### 20. ****Remove from Cart View (****remove\_from\_cart\_view****)****

* **User Action**: Customer removes a product from their cart.
* **Machine Response**:
  + Removes the selected product ID from the product\_ids cookie.
  + Updates the cart with the remaining products and recalculates the total price.
  + Renders the updated cart view.

### 21. ****Send Feedback View (****send\_feedback\_view****)****

* **User Action**: Customer submits feedback.
* **Machine Response**:
  + Displays the feedback form if GET.
  + On POST, validates and saves the feedback to the database.
  + Renders a confirmation page indicating that the feedback was sent.

### 22. ****Customer Home View (****customer\_home\_view****)****

* **User Action**: Authenticated customer views their homepage.
* **Machine Response**:
  + Fetches all products from the database.
  + Retrieves the cart count from cookies.
  + Renders the customer's homepage with product details and cart count.

### 23. ****Customer Address View (****customer\_address\_view****)****

* **User Action**: Customer enters their shipping address before placing an order.
* **Machine Response**:
  + Displays the address form if GET.
  + On POST, validates the address and other details.
  + Stores these details for order placement and calculates the total price of items in the cart.
  + Proceeds to the payment step with the order details.