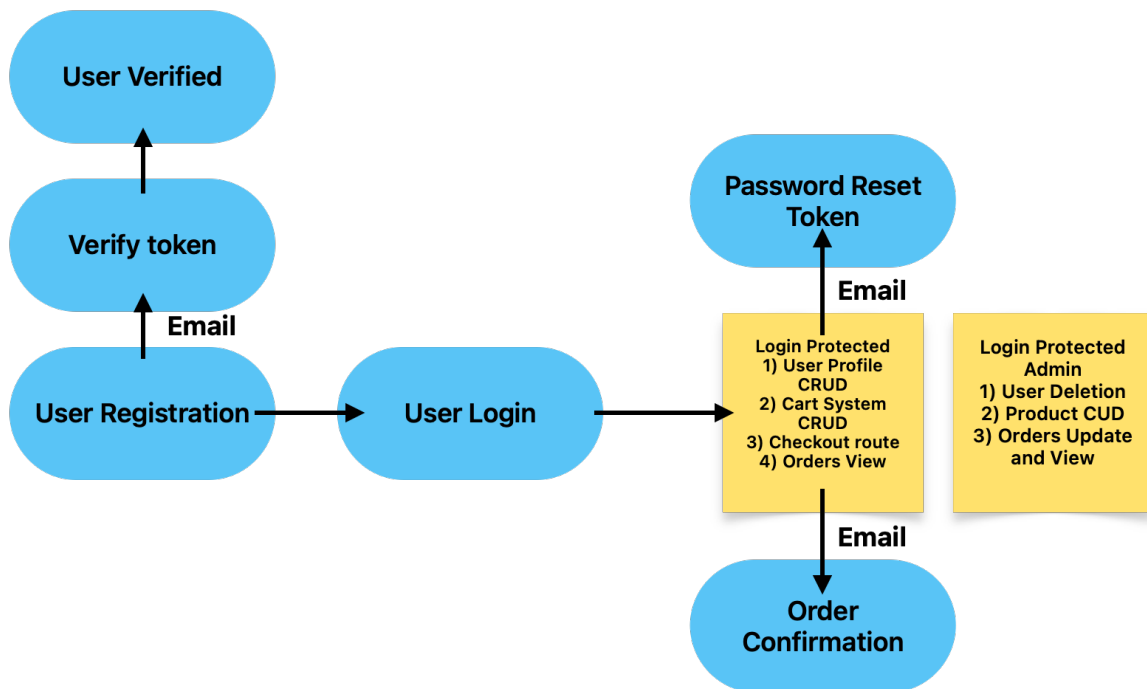


API Flowchart



1. User Authentication:

- The user registers via the POST /auth/register endpoint.
- The user logs in via the POST /auth/jwt/login endpoint and receives a JWT (JSON Web Token).
- All subsequent requests must include this JWT in the Authorization header.

2. User Management:

- The user's profile can be retrieved or updated via the GET /users/me and PATCH /users/me endpoints respectively.
- Specific user profiles can be managed via the GET /users/{id}, PATCH /users/{id}, and DELETE /users/{id} endpoints.

3. Product Catalog:

- All products can be listed via the GET /products endpoint.
- New products can be added via the POST /products/add endpoint.
- Existing products can be updated or removed via the PATCH /products/{product_id} and DELETE /products/{product_id} endpoints respectively.

4. Shopping Cart:

- The cart can be viewed via the GET /cart/show endpoint.
- Items can be added to the cart via the POST /cart/add endpoint.
- Items can be removed from the cart via the DELETE /cart/remove/{item_id} endpoint.
- A summary of the cart can be obtained via the GET /cart/summary endpoint.

5. Checkout and Orders:

- The checkout process can be initiated via the POST /checkout endpoint.
- New orders can be created via the POST /orders/create endpoint.
- Existing orders can be viewed or edited via the POST /orders/view and PUT /orders/edit/{order_id} endpoints respectively.

Ashte API Endpoints

Authentication Endpoints:

- **POST /auth/jwt/login:** Authenticate and receive JWT.
 - **Input :** username : str, password : str
 - **Output :** Access Token Bearer type
- **POST /auth/jwt/logout:** Terminate the current JWT session.
 - **Input :** Gets access token
 - **Output :** "User successfully logged out"
- **POST /auth/register:** Register a new user account.
 - **Input :**

```
• {  
•   "email": "user@example.com",  
•   "password": "string",  
•   "is_active": true,  
•   "is_superuser": false,  
•   "is_verified": false,  
•   "first_name": "string",  
•   "last_name": "string"  
• }
```

- **Output :**

```
• {  
•   "id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",  
•   "email": "user@example.com",  
•   "is_active": true,  
•   "is_superuser": false,  
•   "is_verified": false,  
•   "first_name": "string",  
•   "last_name": "string"  
• }
```

- **POST /auth/forgot-password:** Request a password reset.

- **Input :**

```
• {  
•   "email": "user@example.com"  
• }
```

- **POST /auth/reset-password:** Reset the password using a token.

- **Input :**

```
• {  
•   "token": "string",  
•   "password": "string"  
• }
```

- **POST /auth/request-verify-token:** Request a token for account verification.

- **Input :**

```
• {
•   "email": "user@example.com"
• }
```

- **POST /auth/verify:** Verify user account with a token.

- **Input :**

```
• {
•   "token": "string"
• }
```

- **Output :**

```
• {
•   "id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
•   "email": "user@example.com",
•   "is_active": true,
•   "is_superuser": false,
•   "is_verified": false,
•   "first_name": "string",
•   "last_name": "string"
• }
```

User Management:

- **GET /users/me:** Retrieve current user's profile.
- **PATCH /users/me:** Update current user's profile.

- **Input :**

```
• {
•   "password": "string",
•   "email": "user@example.com",
•   "is_active": true,
•   "is_superuser": true,
•   "is_verified": true,
•   "first_name": "string",
•   "last_name": "string"
• }
```

- **GET /users/{id}:** Get a specific user's profile by ID. (Visible only to superuser)
 - **Input :** id : str
- **PATCH /users/{id}:** Update a specific user's profile by ID. (Visible only to superuser)
 - **Input :** id : str

```
• {
•   "password": "string",
•   "email": "user@example.com",
•   "is_active": true,
•   "is_superuser": true,
•   "is_verified": true,
•   "first_name": "string",
•   "last_name": "string"
• }
```

- **DELETE /users/{id}:** Delete a specific user's profile by ID. (Visible only to superuser)
 - **Input :** id : str

Product Catalog:

- **GET /products:** List all products.

Only for Superuser

- **POST /products/add:** Add a new product.
 - **Input :**

```
{
  "title": "string",
  "description": "string",
  "price": 0,
  "release_date": "2023-12-25",
  "quantity": 0,
  "is_visible": false
}
```

- **PATCH /products/{product_id}:** Update an existing product.
 - **Input :** same Input schema as add product
- **DELETE /products/{product_id}:** Remove a product from the catalog.
 - **Input :** product_id : int

Shopping Cart:

- **GET /cart/show:** Display items in the cart.
- **POST /cart/add:** Add an item to the cart.
 - **Input :** JSON List of product_ids and quantities
- **DELETE /cart/remove/{item_id}:** Remove an item from the cart.
 - **Input :** cart item_id
- **GET /cart/summary:** Get a summary of the cart contents.
 - **Input :** cart_id

Checkout and Orders:

- **POST /checkout:** Initiate the checkout process.
 - **Input :**

```
{
  "cart_id": 0,
  "amount": 0,
  "email": "string",
  "name": "string",
  "phone_no": 0,
  "address": "string",
  "postal_code": "string"
}
```

- **POST /orders/create:** Create a new order.
- **POST /orders/view:** View an existing order.
- **PUT /orders/edit/{order_id}:** Edit an existing order. (Visible only to superuser)
 - **Input :** order_id : int

```
{
  "shipped": true,
  "paid": true
}
```

Miscellaneous:

- **GET /authenticated-route:** Access a route that requires authentication.

Note – Things yet to be done:

- 1) Routes are not yet tested for production
- 2) Shift to production database
- 3) SMTP mail server configuration

Ethereal Mail Config –

(It uses faker.js to emulate the smtp server but it's not a real smtp server , every mail sent and received will be stuck on it's inbox, perfect for testing)

All the mails are visible in ethereal mail.com

```
conf = ConnectionConfig(  
  MAIL_USERNAME="creola.nicolas@ethereal.email",  
  MAIL_PASSWORD="9V4bh27eZK1rbnDDc4",  
  MAIL_FROM="creola.nicolas@ethereal.email",  
  MAIL_PORT=587,  
  MAIL_SERVER="smtp.ethereal.email",  
  MAIL_STARTTLS = True,  
  MAIL_SSL_TLS = False  
)
```

Author : Kaustubh M (Github repo- <https://github.com/Sirczechs-Kaustubh/Ashte-fastapi>)