You can use following libraries

- 1. https://github.com/actix/actix-web (For HTTP Server)
- 2. https://github.com/Keats/jsonwebtoken (For authentication)
- 3. https://github.com/diesel-rs/diesel (For database , please use postgresql database)
- 4. https://github.com/serde-rs/json (json serialization)
- 5. https://github.com/tokio-rs/tokio (for non blocking operation)
- 6. https://github.com/uuid-rs/uuid (For generating uuids)
- 7. You can use any other libraries as well for other purposes

Table Schemas

User Table

Field	DataType	Note
user_id	uuid	Primary key
first_name	Varchar 255	Not null
last_name	Varchar 255	Not null
email	Varchar 255	Not null
password	Varchar 255	Not null
created_at	Timestamp	Not null (Store it in UTC)

Order table

Field	DataType	Note
order_id	uuid	Primary key
user_id	uuid	FK
note	Varchar 500	Can be null
created_at	Timestamp	Not null (Store it in UTC)

Orderltem

Field	DataType	Note
item_id	uuid	Primary Key
order_id	uuid	Foreign Key
description	Varchar 255	NOT NULL
qty	numeric	NOT NULL, Can't be negative
price	numeric	NOT null, can't be negative
created_at	Timestamp	Not null (Store it in UTC)

1. Create a registration endpoint

URL	/api/v1/auth/register
HTTP METHOD	post
Content Type	application/json
Authentication	Not required
Request data	{ "first_name":"first_name", "last_name":"last_name", "email":"", "password":"" }
Response type	application/json
Response data	{ "token":"jsonwebtoken" }

Note: Does not allow users to create account with alre used email	ady
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2. Create a login endpoint

URL	/api/v1/auth/login
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HTTP METHOD	post
Content Type	application/json
Authentication	Not required
Request data	{ "email":"", "password":"" }
Response type	application/json
Response data	{ "token":"jsonwebtoken" }

3. Create a Order endpoint

URL	/api/v1/orders
HTTP METHOD	post
Content Type	application/json
Authentication	Required
Request data	<pre>{ "note":"", "Items: [{</pre>
Response type	HTTP Empty 200 on success or respected error code in case of any issues

4. Get orders of a user endpoint

URL	/api/v1/orders
HTTP METHOD	get
Content Type	application/json
Authentication	Required
Response data	<pre>{ "order_id": "uuid", "user_id": "uuid", "note": "", "order_total": number, "Order_at": timestamp }, { "order_id": "uuid", "user_id": "uuid", "note": "", "order_total": number, "Order_at": timestamp }, { "order_id": "uuid", "user_id": "uuid", "note": "", "order_total": number, "Order_at": timestamp },]</pre>
Response type	application/json

4. Get order detail endpoint

URL	/api/v1/orders/{order_id}
HTTP METHOD	get
Content Type	application/json
Authentication	Required
Response data	{ "order_id": "uuid", "user_id": "uuid", "note": "", "order_total": number, "Order_at": timestamp, "Items": [{ "Item_id": "uuid", "Description": "", "Qty": 11, "Price": 30 }, { "Item_id": "uuid", "Description": "", "Qty": 11, "Price": 30 }, { "Item_id": "uuid", "Description": "", "Qty": 11, "Price": 30 }, }, { "Item_id": "uuid", "Description": "", "Qty": 11, "Price": 30 }, },
Response type	application/json

Note	Only allow to access user's own order not others
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