Application Security

The client is a giant Ecommerce Platform. It has requirements of the below components for its new system.

Components:

1. **Cart Management:** Manages the shopping cart functionality, including the cart calculations, etc.
2. **Customer Management:** Manages all the customer details and customer-related operations like registration, address update, password change, etc.
3. **Notification Management:** Manage the notifications for all the relevant events generated by all other services of the system to send email notifications etc.
4. **Payment Management:** Integrate with the different payment gateways supported to carry out and manage all the payment-related information.
5. **Order Management:** To support the fulfilment-related functions of the order.
6. **Product Search:** Manage the search of products across inventories.

Deliverables

1. Based on the given requirements, create a threat model.
2. Categorize identified security concerns into the STRIDE model and list their mitigation process.
3. Create POC and the documentation for login and registration functionalities for the above requirements. The document should list all security concerns handled along with their probable solutions.

Other Technical Considerations

1. POC can have a simple UI. The main agenda is to check security solutions and no other aspects.
2. Consider this app to be used by millions of users.