**Artifact 1.1 Source requirements**

**User Module:**

* Users can log in or create a customer account to access system features. Upon login, they are categorized as either staff or customers, granting them access to appropriate functionalities.
* Users can reset their account passwords via email or telephone

Attributes: User ID, Username, Password, Role

**Account Management Module:**

* Customers/Staff (Waitstaff, Kitchen staff) and Management can view and modify personal information (e.g. Telephone Number, Email, Address) and reset their password
* Management can create staff accounts and assign roles/accesses

Attributes: User ID, Username, Password, Telephone Number, Email, Address, Role.

**Reservations Module:**

* Customers can:
  + Book tables online.
  + Modify or cancel reservations.
  + View real-time table availability.
* Waitstaff and Management can:
  + View and manage upcoming reservations.
* System can:
  + Provide confirmation and reminders (to customers) about reservations

Attributes: Reservation ID, User ID, Customer Name, Table Number, Date and Time, Number of Guests, Status.

**Order Management Module:**

* Waitstaff can:
  + Input customer orders via tablets or terminals.
  + Update orders with special requests.
* Kitchen staff can:
  + View real-time order details.
  + Update order status.
* Attributes: Order ID, Table Number, Items, Comments, Status.

**Inventory Management Module:**

* The system tracks inventory in real-time:
  + Monitors stock levels.
  + Alerts staff when stock is low.
  + Provide reports on inventory usage
* Kitchen staff can:
  + Update stock levels.
* Management can:
  + Facilitate reordering.
* Attributes: Item ID, Item Name, Quantity on Hand, Reorder Level, Supplier Information.

**Staff Scheduling Module:**

* Management can:
  + Create and manage staff schedules.
  + Approve or deny time-off requests.
* Staff can:
  + View schedules.
  + Request changes.
* Attributes: Schedule ID, User ID, Name, Role, Date, Shift Times, Hours Worked.