**Case Study: Product Ordering and Tracking System**

**Objective:**

Develop a menu-based console application to assess your proficiency in Core Java, MySQL, and JDBC. The application will simulate a product ordering and tracking system for a consumer electronics company, allowing users to manage orders, track shipments, and update order statuses.

**Functionalities:**

1. **Order Placement:**
   * Place a new product order
   * View order details
   * Update order information
   * Cancel an order
2. **Shipment Tracking:**
   * Track shipment status using order ID
   * View shipment details
   * Update shipment status
   * Cancel shipment
3. **Order Status Update:**
   * Update order status (e.g., processing, shipped, delivered)
   * View order status history
   * Cancel order status update

**Database Schema:**

* **Order Table:**
  + order\_id (Primary Key)
  + customer\_id (Foreign Key references Customer Table)
  + product\_id (Foreign Key references Product Table)
  + order\_date
  + status
* **Shipment Table:**
  + shipment\_id (Primary Key)
  + order\_id (Foreign Key references Order Table)
  + shipment\_date
  + estimated\_delivery\_date
  + actual\_delivery\_date
  + status

**Requirements:**

* Develop a menu-based console application using Core Java.
* Use JDBC for interactions with the MySQL database.
* Implement menu options for managing product orders, shipment tracking, and order status updates.
* Ensure that the application updates order and shipment statuses, tracks shipments, and manages orders efficiently.
* Handle exceptions effectively and provide user-friendly error messages.
* Ensure the application code is clean, well-documented, and follows standard coding conventions.

**Submission:**

* Submit the complete source code along with a README file that provides setup and usage instructions.
* Share your project by uploading it to a public GitHub repository.
* Provide the link to the GitHub repository to the coaches.