**Case Study: Package Delivery Management System**

**Objective:** Develop a menu-based console application to assess your proficiency in Core Java, MySQL, and JDBC. The application will simulate a package delivery management system, allowing users to manage packages, delivery personnel, and routes.

**Functionalities:**

1. **Package Management:**
   * Add a new package
   * View package details
   * Update package information
   * Delete a package
2. **Personnel Management:**
   * Add a new delivery personnel
   * View personnel details
   * Update personnel information
   * Delete a personnel
3. **Route Management:**
   * Add a new delivery route
   * View route details
   * Update route information
   * Delete a route

**Database Schema:**

* **Package Table:**
  + package\_id (Primary Key)
  + description
  + weight
  + destination
  + status (in-transit/delivered)
  + delivery\_date
* **Personnel Table:**
  + personnel\_id (Primary Key)
  + name
  + email
  + phone\_number
  + vehicle\_id (Foreign Key references Vehicle Table)
* **Route Table:**
  + route\_id (Primary Key)
  + start\_location
  + end\_location
  + distance
  + estimated\_time

**Requirements:**

* Develop a menu-based console application using Core Java.
* Use JDBC for interactions with the MySQL database.
* Implement menu options for managing packages, delivery personnel, and routes.
* Ensure that the application handles package tracking, updates status, and delivery tracking.
* 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.