**Case Study: Pet Adoption Center Management System**

**Objective:**

Develop a menu-based console application to assess your proficiency in Core Java, MySQL, and JDBC. The application will simulate a pet adoption center management system, allowing users to manage animals, potential adopters, and adoption requests.

**Functionalities:**

1. **Animal Management:**
   * Add a new animal
   * View animal details
   * Update animal information
   * Delete an animal
2. **Adopter Management:**
   * Register a new potential adopter
   * View adopter details
   * Update adopter information
   * Delete an adopter
3. **Adoption Request Management:**
   * Submit a new adoption request
   * View adoption request details
   * Update request status
   * Cancel an adoption request

**Database Schema:**

* **Animal Table:**
  + animal\_id (Primary Key)
  + name
  + species
  + age
  + adoption\_status
* **Adopter Table:**
  + adopter\_id (Primary Key)
  + name
  + email
  + phone\_number
  + address
* **Adoption Request Table:**
  + request\_id (Primary Key)
  + animal\_id (Foreign Key references Animal Table)
  + adopter\_id (Foreign Key references Adopter Table)
  + request\_date
  + status (submitted/approved/rejected)

**Requirements:**

* Develop a menu-based console application using Core Java.
* Use JDBC for interactions with the MySQL database.
* Implement menu options for managing animals, adopters, and adoption requests.
* Ensure that the application updates the adoption status in the Animal table appropriately after an adoption request is approved or rejected.
* 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.