**Case Study: Digital Magazine Management System**

**Objective:**

Develop a menu-based console application to assess your proficiency in Core Java, MySQL, and JDBC. The application will simulate a digital magazine management system for a communications and media company, allowing users to manage magazines, articles, and subscriptions.

**Functionalities:**

1. **Magazine Management:**
   * Add a new magazine
   * View magazine details
   * Update magazine information
   * Delete a magazine
2. **Article Management:**
   * Add a new article to a magazine
   * View article details
   * Update article information
   * Delete an article
3. **Subscription Management:**
   * Subscribe to a magazine
   * View subscription details
   * Update subscription information
   * Cancel a subscription

**Database Schema:**

* **Magazine Table:**
  + magazine\_id (Primary Key)
  + title
  + genre
  + publication\_frequency
  + publisher
* **Article Table:**
  + article\_id (Primary Key)
  + magazine\_id (Foreign Key references Magazine Table)
  + title
  + author
  + content
  + publish\_date
* **Subscription Table:**
  + subscription\_id (Primary Key)
  + user\_id (Foreign Key references User Table)
  + magazine\_id (Foreign Key references Magazine Table)
  + subscription\_date
  + expiry\_date
  + status (active/inactive)
* **User Table:**
  + user\_id (Primary Key)
  + username
  + email
  + date\_of\_birth
  + registration\_date

**Requirements:**

* Develop a menu-based console application using Core Java.
* Use JDBC for interactions with the MySQL database.
* Implement menu options for managing magazines, articles, and subscriptions.
* Ensure that the application updates subscription statuses and handles user, magazine, and article data 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.