**Assignment Submission System**

This system is a backend application built using maven, Spring Boot and MongoDB. It allows users (students) to submit assignments and admins to accept or reject them.

**Features :**

* **Users** can:
  + Register and log in.
  + Upload assignments.
* **Admins** can:
  + Register and log in.
  + View assignments.
  + Accept or reject assignments.

**Prerequisites :**

To run this system locally, you need to have the following software installed:

* **Java 17** (or higher)
* **Maven 3.6** (or higher)
* **MongoDB** (either local or using MongoDB Atlas for cloud hosting)

**Add Spring Dependencies :**

Adding necessary spring dependency

Ex:-<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-test</artifactId>

<scope>test</scope>

</dependency>

We are using spring annotation based configuration to reduce the code writing.

**Configure MongoDB**

The application uses MongoDB for data storage.

* **MongoDB Compass**: Make sure MongoDB is running on your local machine on the default port 27017 or use custom port number.
* Set Uri on application properties to configure mongodb with spring along with the name of the db.

**Access the Application**

The application will start running at <http://localhost:8080> or 8081. You can interact with the API using tools like **Postman**.

**API Endpoints**

**Authentication**

**User Registration :**

POST /register/user

**Request Body**:

json

{

"email": "user@example.com",

"password": "password123",

"name": "User Name"

}

**Admin Registration :**

POST /register/admin

**Request Body**:

json

{

"email": "admin@example.com",

"password": "password",

"name": "Admin"

}

**User/Admin Login :**

POST /login

**Request Body**:

json

{

"email": "user@example.com",

"password": "password123"

}

**Upload Assignment (User) :**

POST /assignments/upload

**Request Body**:

json

{

"task": "Spring ",

"admin": "adminName",

}

**Accept Assignment (Admin) :**

POST /assignments/{id}/accept

**Example**:

POST /assignments/1/accept

**Reject Assignment (Admin) :**

POST /assignments/{id}/reject

**Example**:

POST /assignments/1/reject

**View All Assignments (Admin) :**

GET /assignments

**Database Structure**

The system uses three collections in MongoDB:

1. **Users**:
   * Fields: id, name, email, password
2. **Admins**:
   * Fields: id, name, email, password
3. **Assignments**:
   * Fields: id, title, admin, status

**Testing**

You can use **Postman** to test the endpoints.