**Institute Management System RESTful API**

**Overview**

This project is an Institute Management System backend service implemented using Java and Spring Boot. It provides a RESTful API for managing institutes, including registration, retrieval, and modification of institute information. Additionally, Docker support is provided for easy deployment.

**Setup**

Prerequisites

Java JDK 8 or higher

Maven

Docker

**Steps**

Clone the repository: git clone https://github.com/your/repository.git

Navigate to the project directory: cd institute-management-system

Build the project: mvn clean install

**Running the Application**

You can run the application using Maven or as a Docker container.

Maven

mvn spring-boot:run

The application will start on https://localhost:443.

Docker

Build the Docker image: docker build -t institute-management-system .

Run the Docker container: docker run -d -p 8080:8080 institute-management-system

The application will be accessible at https://localhost:443.

**API Endpoints**

1. Institute Registration

URL : “/api/register”

Method : POST

Request Body Format: : {

"name": "Institute Name",

"location": "Institute Location",

"contact": "Contact Information"

}

1. Get All Institutes

URL : /api/register

Method : GET

Response Format : {

"name": "Institute Name",

"location": "Institute Location",

"contact": "Contact Information"

}

1. Get Institute by ID

URL : /api/register/{id}

Method : GET

Response Format : {

"name": "Institute Name",

"location": "Institute Location",

"contact": "Contact Information"

}

1. Update Institute by ID

URL : /api/register/{id}

Method : PUT

Request Body Format : {

"name": "Institute Name",

"location": "Institute Location",

"contact": "Contact Information"

}