Cloud Cost Estimator API

# Description

A Java Spring Boot API that estimates AWS cloud costs based on user inputs for EC2 Instances, S3 Storage, and Lambda Invocations. Built using Spring Boot and Maven.

# Features

- Calculate cloud costs for:  
 - EC2 Instances  
 - S3 Storage (GB)  
 - Lambda Invocations per Month  
- RESTful API with JSON request and response.  
- Simple architecture with Controller, Service, and Model layers.

# Project Structure

cloud-cost-estimator-fixed/  
├── src/  
│ └── main/  
│ ├── java/  
│ │ └── com/pruthvi/cloud\_cost\_estimator/  
│ │ ├── controller/ # API Controller (CostEstimatorController.java)  
│ │ ├── model/ # Request model (CostEstimateRequest.java)  
│ │ ├── service/ # Service logic (CostEstimatorService.java)  
│ │ └── CloudCostEstimatorApplication.java  
│ └── resources/  
│ └── application.properties  
├── pom.xml  
└── README.md

# Dependencies

- Java 17  
- Spring Boot 3.1.0  
- Maven  
- Lombok

# API Endpoint

URL: POST http://localhost:8080/api/cost/estimate

## Request Body (JSON)

{  
 "ec2Instances": 2,  
 "s3StorageGb": 100,  
 "lambdaInvocationsPerMonth": 1000000  
}

## Response

102.3

# How To Run Locally

1. Clone the repository:  
git clone https://github.com/pcharans/cloud-cost-estimator.git  
  
2. Navigate to the project directory:  
cd cloud-cost-estimator-fixed  
  
3. Build the project:  
mvn clean install  
  
4. Run the Spring Boot application:  
mvn spring-boot:run  
  
5. Test the API using Postman or Curl.

# License

This project is licensed under the MIT License.

# Contact

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