Sale Campaign Management System

A company manages an impressive catalogue of approximately 100,000 diverse products, each with a comprehensive set of attributes:

- Product ID
- Title
- Description
- Maximum Retail Price (MRP)
- Current Price
- Discount
- Inventory Count (indicating product availability)

As part of your project, you're tasked with designing the following crucial APIs:

Paginated Product API:

Creating a Sale Campaign:

```
}
// Additional discount entries...
]
```

Your mission involves implementing these APIs, which will enable the dynamic adjustment of product prices during designated sale periods. For example, if a product initially carries an MRP of Rs. 1000, is presently priced at Rs. 900, and is granted an additional 10% discount during a sale, the product will be temporarily retailed at Rs. 810. After the sale concludes, the product's price will revert to its standard Rs. 900. **As a system I should be able to query the following information from the**

database

- 1. All products and the ir information including current price adjusted with any ongoing sale
- 2. Pricing history of each product
- 3. All campaign informations past, current and upcoming

Technologies to be used

Language & Framework - Java, Springboot Database - MySql

You are free to build extra APIs as required.