**Grails Product Information Assignment**

**Description**

In this assignment, you will create a Grails application for managing product information. The application should allow users to create new products and view details about existing products. The product information should include the following attributes:

* ID: unique identifier for the product (auto-generated)
* Name: name of the product (required)
* Price: price of the product (required)
* Description: description of the product (optional)

The application should use a MySQL database to store and retrieve product information.

**Requirements**

Your Grails application must satisfy the following requirements:

1. The application should include a domain class called "Product" that represents a product and includes the following properties: id (of type Long), name (of type String), price (of type BigDecimal), and description (of type String).
2. The application should include a controller called "ProductController" that includes actions for creating and saving product information, and for displaying details about a specific product.
3. The application should include a view called "create.gsp" that displays a form for creating a new product. The form should include fields for entering the name, price, and description of the product.
4. The application should validate that the name and price fields are not empty when creating a new product.
5. The application should use a MySQL database to store and retrieve product information.
6. The application should include a view called "show.gsp" that displays details about a specific product, including its name, price, and description.

**Instructions**

Follow these steps to complete the assignment:

1. Create a new Grails application called "ProductApp".
2. Create a domain class called "Product" that represents a product and includes the following properties: id (of type Long), name (of type String), price (of type BigDecimal), and description (of type String).
3. Create a controller called "ProductController" that includes actions for creating and saving product information, and for displaying details about a specific product.
4. Create a view called "create.gsp" that displays a form for creating a new product. The form should include fields for entering the name, price, and description of the product.
5. Validate that the name and price fields are not empty when creating a new product.
6. Use a MySQL database to store and retrieve product information.
7. Create a view called "show.gsp" that displays details about a specific product, including its name, price, and description.
8. Test your application to ensure that it works correctly.
9. Submit your completed assignment, including the Grails application code and a brief write-up explaining how you implemented each requirement.