# JSF Store Potential Improvements

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There are numerous shortcomings in the JSF Store – if this were to be a production store, all of them would have to be addressed.

**Architecture:**

This store does use Models and Views, but I don’t think it does “Controller” well. Using MVC is the whole point of JSF. Right now it’s just a game of hot potato between the different Managed Beans. And some of the Java classes are Beans when they probably don’t have to be.

**Database:**

The customer number and order number are fetched as the last primary key in the database. What if there were multiple users accessing the site at once?

There should be a customer username, but now there is only a number. The password should be hashed or encrypted or salted.

The database user should not be the root user. Presently, a successful SQL injection attack could perform any action.

Database inputs should be sanitized.

**Orders:**

There should be functionality to view previous orders by a customer.

**Shipping:**

Pressing back after reaching the success screen brings back the shipping details page. The user can hit “Confirm Order” again, and it creates a duplicate order.

**Style:**

Inconsistent use of inline style and stylesheet. TD elements on the shopping table could use some right-and-left padding.

Images are ham-fistedly sized in CSS – unfortunately, the percentages tie to the parent element (a TD) instead of the original size of the image.