Noel Miranda

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Server Side Development

Module 10

Simple Overview of Code Example

The small dynamic project attached to this submission is the one referenced in the paper. I built it as a mock Bellevue University course survey that allows students to submit feedback for a class they have taken. The application uses JavaServer Faces (JSF) with a request scoped managed bean to handle the form data. The survey collects a student ID, course name, a satisfaction rating from 1 to 10, and written feedback.

For the setup, I used JSF HTML tags to build the user interface, such as <h:form>, <h:inputText>, and <h:selectOneMenu>, which made it easy to bind form fields to the managed bean. The student ID input was tied to <h:inputText>, and the rating scale was created using <h:selectOneMenu>. I used <h:commandButton> to trigger submission and <h:message> to display validation feedback below each field when needed. To create a consistent layout, I also used a Facelets template for both the form page and the thank you page. This allowed me to define a common structure and reuse it across views, keeping the design clean and organized.

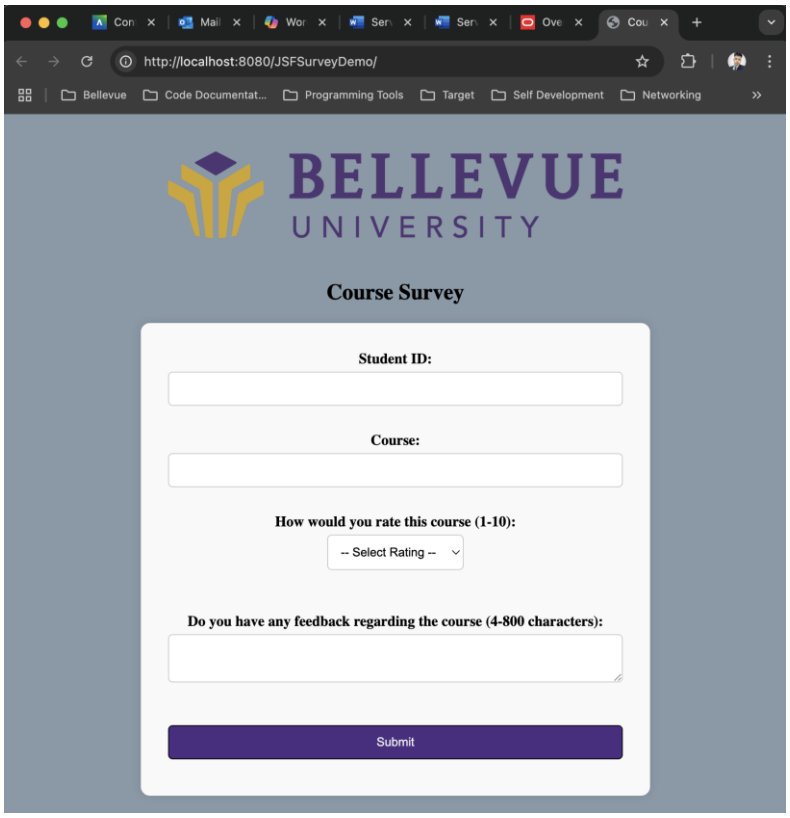
To ensure clean and proper input, I added Core tag features like <f:validateRegex> to enforce a specific format for the student ID and <f:validateLongRange> to restrict the rating to a value between 1 and 10. This approach made the form both user friendly and secure without me having to write extra code.

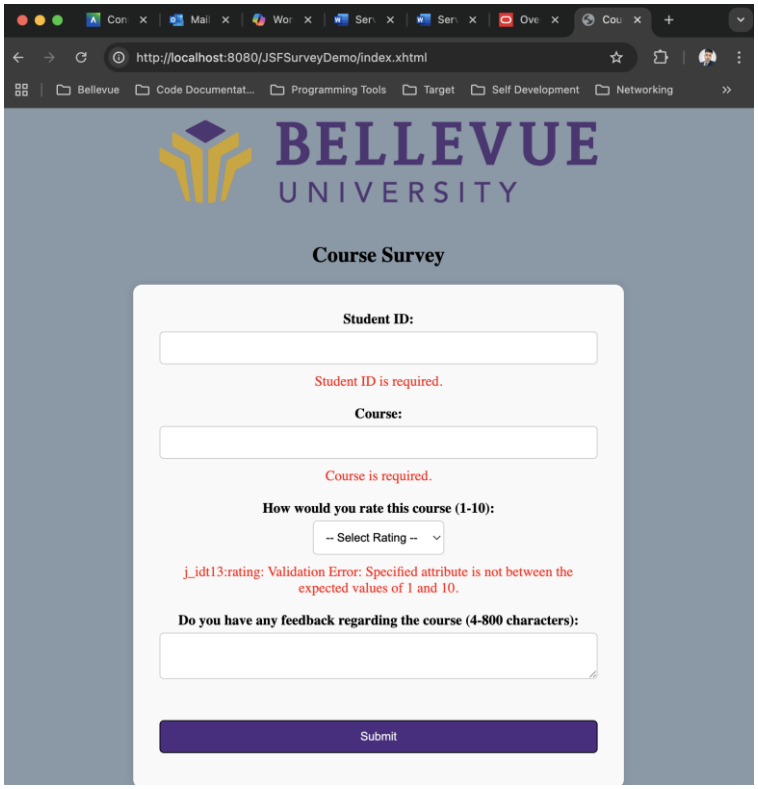
The managed bean is annotated with @RequestScoped because the form data only needs to live as long as the request. Once the form is submitted, the bean is discarded, freeing up memory and avoiding any unintended state retention. My plan is to implement a separate model

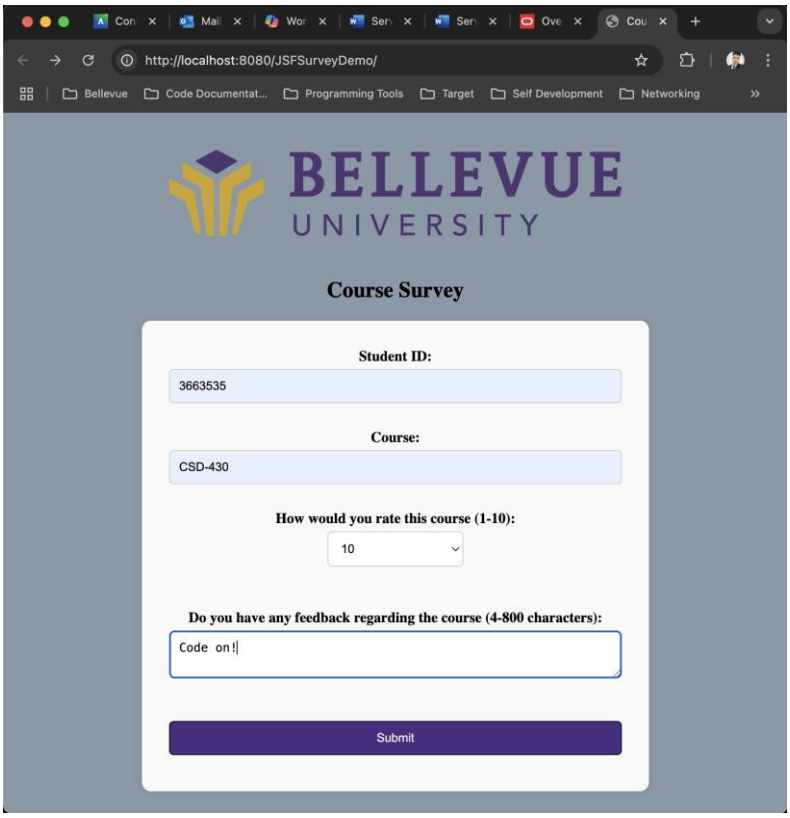
class in the future that will handle the business logic for submitting the survey data to a database. Once that is in place, the managed bean will act as a bridge between the user interface and this backend logic, making it easier to expand the application while keeping concerns separated.

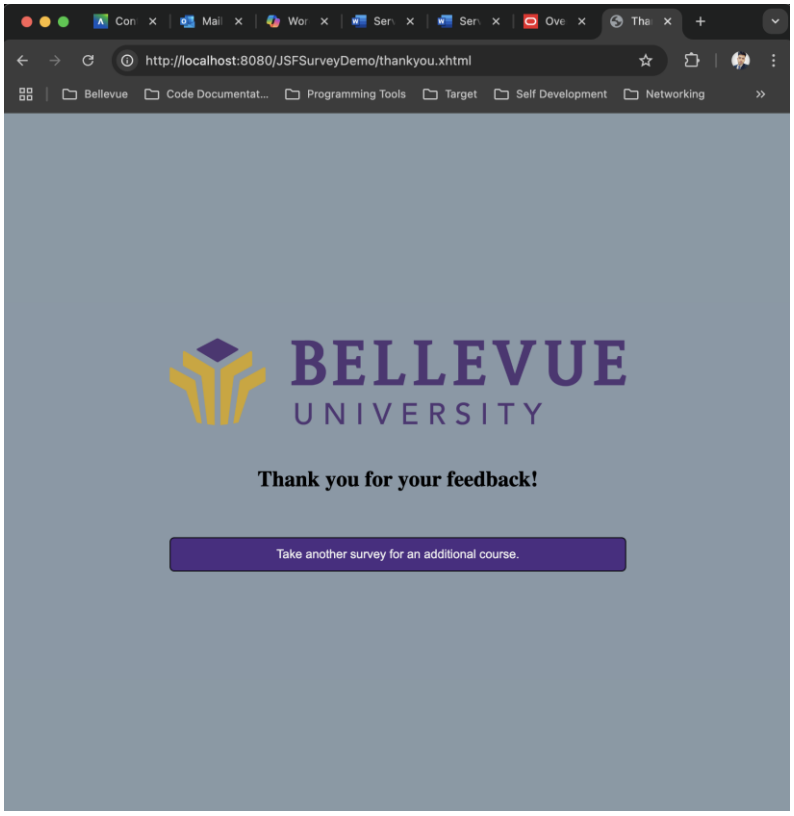
Overall, the JSF application goes through the JSF lifecycle to collect user feedback through the simple form. It validates the data before processing it and, if all goes well, displays a confirmation page with a thank you message. If validation fails, the JSF lifecycle is interrupted to display error messages below the form's fields.

Images Below of the Code Example During Test & Executing Successfully:






http://localhost:8080/JSFSurveyDemo/
Bellevue
Code Documentat...
Programming Tools
Target
Self Development
Networking
BELLEVUE
UNIVERSITY
Course Survey
Student ID:
3663535
Course:
CSD-430
How would you rate this course (1-10):
10
Do you have any feedback regarding the course (4-800 characters):
Code on!
Submit


http://localhost:8080/JSFSurveyDemo/thankyou.xhtml
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Thank you for your feedback!
Take another survey for an additional course.