# SPRING MVC PIZZA LAB PT. 1

## Spring MVC

**Task:** Create a website for a pizza restaurant. It includes pages for several pre-set specialty pizzas, a custom pizza builder, and a customer reviews page.

**Skills:** Spring MVC, Links, Forms, URL Query Parameters, JSP Expression Language

**What will the application do?**

- *Homepage:* The homepage is at the root path (/) and includes a list of links to three or more specialty pizzas. It also includes a link to the custom pizza builder and a link to leave a review.

- *Review:* On the review page, the user fills out a form with their name, a comment, and a rating. When they submit the form, a confirmation page is shown which displays the **name**, **comment**, and **rating** they chose on the form. (Note: The rating information is not actually saved or shown elsewhere at this point.) The page also includes a link back to the homepage.

- *Specialty Pizzas:* There is one controller and one JSP for displaying the **name** and **price** of a specialty pizza. The name and price are specified to the controller as URL query parameters (a.k.a. request params), and both are displayed on the JSP. The specialty pizza links on the homepage include these two parameters hard-coded.

- *Custom Pizza Builder:* On the custom pizza builder page, the user fills out a form with the pizza **size** (HTML <select>), **topping count**, a checkbox for **gluten-free crust** or not, and a text area for **special instructions**. When they submit the form, a result page shows their choices plus a total price. (See below for price calculation.) The page also includes a link back to the homepage.

**Build Specifications**

- Pizza price calculation is based on size, number of topping, and crust option...
    - For small pizza: $7 + number of toppings × $0.50
    - For medium pizza: $10 + number of toppings × $1.00
    - For large pizza: $12 + number of toppings × $1.25
    - For any size, add $2.00 for gluten-free crust.

**Extended Challenges**

1. Add CSS & images.

2. Experiment with using GET and POST on forms.
3. Add a pizza-themed Madlib story form and page.
4. Instead of "true" or "false" for gluten-free crust on the results page, show "yes" or "no".
5. Format prices to always have two decimal places.

**Example Screenshots**

*Homepage:*

# Welcome to MVC's Pizza

## Specialty Pizzas

- Anchovy Lover's
- Paleo Pizza
- Dessert Pizza

## Custom Pizza

Build your own!

## Leave a review

Click here to leave a review.

*Review Form:*

# Leave a Review

**Your Name** Spring

**Comment**

I haven't tried the pizza, but this website is awesome!

## Rating

● 5 (best) - ○ 4 - ○ 3 - ○ 2 - ○ 1 (worst)

Submit  Never Mind

*Review Confirmation Page:*

# Thanks for the review!

**Your Name:** Spring

**Comment:** I haven't tried the pizza, but this website is awesome!

**Rating:** 5

Back to Homepage

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*Specialty Pizza Page:*

# Specialty Pizza: Anchovy Lover's

**Name:** Anchovy Lover's

**Price:** $15.0

Back to Homepage

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*Pizza Builder Form:*

# Build Your Own Pizza

**Size** Medium

**How many toppings?** 3

☑ **Gluten-Free Crust?** ($2.00 extra)

**Special Instructions (Optional)**

Extra sauce!

Calculate Price   Never Mind

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*Pizza Builder Result Page:*

# Your Pizza

**Size:** Medium

**Toppings:** 3

**Gluten-Free Crust:** true

**Specialty Instructions:** Extra sauce!

**Price:** $15.0

[Build another pizza](#) | [Back to Homepage](#)