

# Case Study 4(i) – Form Validation

- Modify the “Jobs” page so that the input data for name, email, start date and experience are validated **once** the data is entered into each field.
  - The name field contains alphabet characters and character spaces.
  - The email field contains a user name part followed by “@” and a domain name part. The user name contains word characters including hyphen (“-”) and period (“.”). The domain name contains two to four address extensions. Each extension is string of word characters and separated from the others by a period (“.”). The last extension must have two to three characters.
  - The start date cannot be from today and the past.
  - The experience field cannot be empty (This can be done in HTML5)



The screenshot shows a web form titled "Jobs at JavaJam" for the "JavaJam Coffee House". On the left is a navigation menu with links: Home, Menu, Music, and Jobs. The main content area contains the following text: "Want to work at JavaJam? Fill out the form below to start your application. Required fields are marked with an asterisk \*". Below this text are four input fields, each preceded by an asterisk: "\*Name:", "\*E-mail:", "Start Date:", and "\*Experience:". Each field has a corresponding text input box. At the bottom of the form is a button labeled "Apply Now". The footer of the page contains the copyright notice: "Copyright © 2014 JavaJam Coffee House" and the email address "javajam@javajam.com".

# Case Study 4(ii) – Menu Update

- Modify the “Menu” page to include order quantity and options for single or double shots. The sub-total for each order should be displayed along the total amount below the sub-totals. The sub-totals and total should be computed using JavaScript function..

The screenshot shows the JavaJam Coffee House menu page. The page has a header with the logo and a sidebar with links: Home, Menu, Music, and Jobs. The main content area is titled "Coffee at JavaJam" and lists three coffee items: Just Java, Cafe au Lait, and Iced Cappuccino. Each item has a description and pricing for single and double shots. The "Total price" is displayed at the bottom right. Annotations with arrows point to specific areas for updates:

- Add column of text boxes for quantity inputs (pointing to the input fields for quantity).
- Add column of text boxes for sub-total prices (pointing to the input fields for sub-total prices).
- Add text box for total price (pointing to the input field for the total price).
- Add radio buttons for price selection (pointing to the radio buttons for single and double shots).

Item	Description	Single	Double
Just Java	Regular house blend, decaffeinated coffee, or flavor of the day. Endless Cup \$2.00	<input type="text"/>	<input type="text"/>
Cafe au Lait	House blended coffee infused into a smooth, steamed milk. Single \$2.00 Double \$3.00	<input type="text"/>	<input type="text"/>
Iced Cappuccino	Sweetened espresso blended with icy-cold milk and served in a chilled glass. Single \$4.75 Double \$5.75	<input type="text"/>	<input type="text"/>

Total price

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# Case Study 5(i) – Price Update

- Implement additional pages to perform database management functions such as product price update and generation of daily sales report.
- As shown below is a **sample** administrative page to select a particular blend of coffee for price update. On clicking a corresponding check box, the user can key in the new sales price for a cup of coffee. On successful update of the sales price into the database, the updated sale prices should be automatically retrieved and display onto the same page for user confirmation.

Click on a check box for price update

Updated corresponding price displayed on same page

The screenshot shows a web application interface for 'JavaJam Coffee House'. It features a title bar with the logo, a sidebar with a 'Product Price Update' link, and a main content area titled 'Click to update product prices:'. This area contains three rows of coffee products, each with a checkbox, a product name, and a description with current prices. The products are 'Just Java', 'Cafe au Lait', and 'Iced Cappuccino'. Arrows from the text annotations point to the checkboxes and the price information.

JavaJam Coffee House		
Product Price Update	Click to update product prices:	
	<input type="checkbox"/>	<b>Just Java</b> Regular house blend, decaffeinated coffee, or flavor of the day. Endless Cup \$2.00
	<input type="checkbox"/>	<b>Cafe au Lait</b> House blended coffee infused into a smooth, steamed milk. Single \$2.00 Double \$3.00
	<input type="checkbox"/>	<b>Iced Cappuccino</b> Sweetened espresso blended with icy-cold milk and served in a chilled glass. Single \$4.75 Double \$5.75

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# Case Study 5(ii) – Sales Reports

- This case study should require adding a “check-out” button to the modified “Menu” page of case study 4(ii). On check out, the customer’s order should be inserted into the database.
- As shown below is a sample administrative page for generating the daily sales reports based on daily customer’s orders.
- Daily sales reports showing the total dollar and quantity sales for each of the products and categories (single and double shots) should be generated and presented in html format.
- It should also be possible to include the most popular option category of the best selling product in the report.

Indicate the best selling coffee and its most popular option (single/double/null).



The screenshot shows a web interface for "JavaJam Coffee House". On the left, there is a vertical sidebar with the text "Daily Sales Report". The main content area has a header "Click to generate daily sales report:" followed by two radio button options: "Total dollar and quantity sales by products" and "Total dollar and quantity sales by categories". Below these is a text input field labeled "Popular option of best selling product:". At the bottom right, there is a small copyright notice: "Copyright © 2014 JavaJam Coffee House yourfirstname@yourlastname.com". A blue arrow points from the text "Indicate the best selling coffee and its most popular option (single/double/null)." to the "Popular option of best selling product:" input field.