

# Case Study 3(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 heading "Jobs at JavaJam" and a sub-heading "Want to work at JavaJam? Fill out the form below to start your application. Required fields are marked with an asterisk \*". Below this are four input fields: "\*Name:", "\*E-mail:", "Start Date:", and "\*Experience:". Each field has a 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 URL "yourformname@yourformname.com".

# Case Study 3(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..



# Case Study 4(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 an 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.


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 product information, each with a checkbox for selection. The products are 'Just Java', 'Cafe au Lait', and 'Iced Cappuccino', each with a description and current pricing. At the bottom, there is a copyright notice.

Product	Description	Current Price
<input type="checkbox"/> Just Java	Regular house blend, decaffeinated coffee, or flavor of the day.	Endless Cup \$2.00
<input type="checkbox"/> Cafe au Lait	House blended coffee infused into a smooth, steamed milk.	Single \$2.00 Double \$3.00
<input type="checkbox"/> Iced Cappuccino	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 4(ii) – Sales Reports

- As shown below is an administrative page to generate the daily sales reports.
- Daily sales reports showing the total dollar sales by products and sales quantities by product categories (single and double shots) should be generated on separate pages.
- It should also be possible to report the product category which achieved the highest dollar sales in the latter report.



The screenshot shows a web interface for 'JavaJam Coffee House'. The title 'JavaJam Coffee House' is at the top in a stylized font. On the left, there is a vertical sidebar with the text 'Daily Sales Report'. The main content area has the heading 'Click to generate daily sales report:' followed by two radio button options: 'Total dollar sales by products' and 'Sales quantities by product categories'. At the bottom of the page, there is a small copyright notice: 'Copyright © 2014 JavaJam Coffee House yourfirstname@yourlastname.com'.