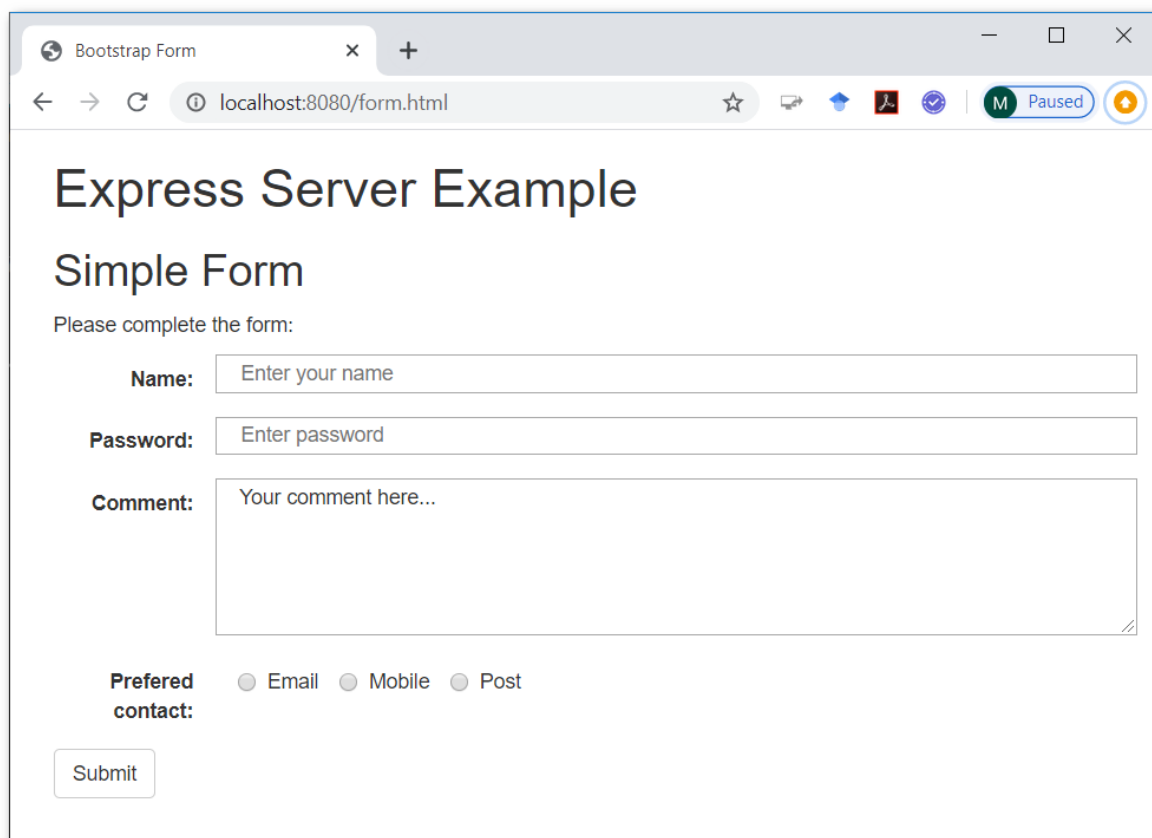


9.3D: Server-side Validation of Data

Tasks

Validation of data entered by a user (or other source) can be done on the Client-side using Javascript routines, as we did in *Task 7.3C*. It is good programming practice for a server not to rely *solely* on the client-side and it should also perform **validation** before processing/storing/using the submitted data.

Your tasks here is to implement **server-side** validation of data entered from the user. You can use the simple form from *Task 9.1P* as the source of the data:



The screenshot shows a web browser window with the title 'Bootstrap Form'. The address bar shows 'localhost:8080/form.html'. The page content includes the heading 'Express Server Example' and 'Simple Form'. Below the heading is the text 'Please complete the form:'. The form consists of three input fields: 'Name:' with a placeholder 'Enter your name', 'Password:' with a placeholder 'Enter password', and 'Comment:' with a placeholder 'Your comment here...'. Below these fields are three radio buttons labeled 'Email', 'Mobile', and 'Post', preceded by the text 'Preferred contact:'. At the bottom left of the form is a 'Submit' button.

Task9.1.1 Example form layout

In validating this form, the **server** should check the following fields are valid:

1. The `name` field is not empty (i.e., it contains text)
2. The `password` fields is **at least** 8 characters and **no more** than 20 characters in size.

3. The `comment` field is **less than** 100 characters in size.
4. That one of the `optradio` fields has been selected.

The server should return one of two responses:

1. **Successfully validated form** - Normal *'Thank you for submitting your query'* response, as with original 9.1P task.
2. **Invalid form** - A response stating which of the three fields were not valid.

What will you submit?

You should submit:

- Source code of the `Node.js` file (i.e., the `.js` file).
- Screenshot of the browser window showing the form web page with **VALID** entered data.
- Screenshot of the browser window showing the response page given a **VALID** form is submitted.
- Screenshot of the browser window showing the form web page with **INVALID** entered data.
- Screenshot of the browser window showing the response page given an **INVALID** form is submitted.