

9.2C: Create a Response Page with Validation

Tasks

Accepting data form a client without checking it is valid first, is a very risky thing to do! We **can not** always trust what a client sends us to process!

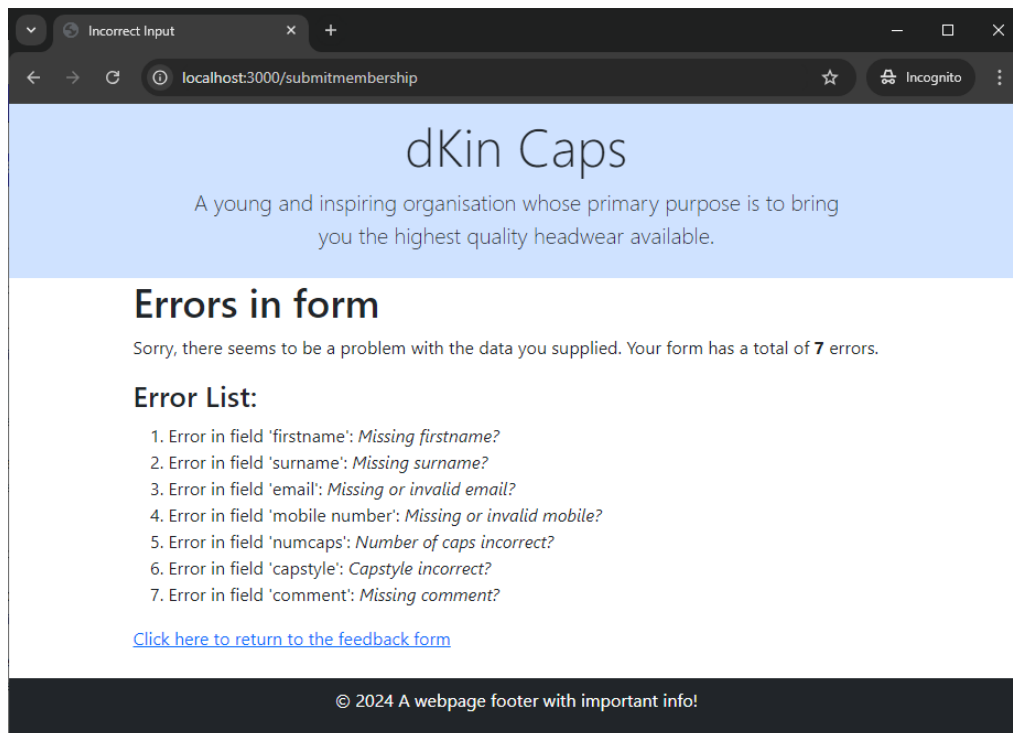
In this task you are provided with a *tweaked* input form, taken from Task 9.1P, with the required fields removed. This will allow for *testing* on the server side.

The screenshot shows a web browser window with the title 'dKin Membership' and the address 'localhost:3000'. The page has a light blue header with the text 'dKin Caps' and a description: 'A young and inspiring organisation whose primary purpose is to bring you the highest quality headwear available.' Below the header is a section titled 'dKin Caps: Membership' with a paragraph: 'Signing up to become a member of the dKin Caps community is very rewarding. Please use the web-based form below to give us your details and you will receive some great offers from us!'. The form is titled 'Membership' and has a sub-header: 'Please complete the form below to provide some valuable feedback on your favourite ice cream.' The form fields are: Firstname (text input), Surname (text input), Email (text input), Mobile (text input with placeholder '04xxxxxxxx'), Number of caps owned (radio buttons for 'No caps yet', 'Between 1 and 10 caps', 'Between 11 and 29 caps', and 'More than 30 caps'), Favourite Cap(s) (dropdown menu with 'Select a cap style...' and a downward arrow), and Comments (text area with placeholder 'Please provide a few words to describe your favourite cap...'). At the bottom of the form are two buttons: 'Submit' and 'Reset'. The footer of the page says '© 2024 A webpage footer with important info!'.

Task9.2.1 Modified form page

This tasks involves two activities. The first requires you to extend your `/submitmembership` POST handler from **Task 9.1P** to *validate* the form fields, checking they exist (contain a value) and that the email address ends with `@deakin.edu.au`. The required field has been removed from the provided `index.ejs` file... as to allow for *Server Side* checking.

Your solution should check for 1 or more errors, and display them accordingly. Samples of the possible error messages are shown below:



Task9.2.2a Example of error response for missing **ALL** 7 form fields

dKin Membership

localhost:3000

Incognito

dKin Caps

A young and inspiring organisation whose primary purpose is to bring you the highest quality headwear available.

dKin Caps: Membership

Signing up to become a member of the **dKin Caps** community is very rewarding. Please use the *web-based form* below to give us your details and you will receive some great offers from us!

Membership

Please complete the form below to provide some valuable feedback on your favourite ice cream.

Firstname:

Mick

Surname:

Hobbs

Email:

mick@gmail.com

Mobile:

0499000111

Number of caps owned:

No caps yet

☒ Between 1 and 10 caps

☐ Between 11 and 29 caps

☐ More than 30 caps

Favourite Cap(s):

Bucket Hat

Comments:

Please provide a few words to describe your favourite cap...

Submit

Reset

© 2024 A webpage footer with important info!

Task9.2.2b Example a form with an incorrect email and missing comment

Incorrect Input

localhost:3000/submitmembership

Incognito

dKin Caps

A young and inspiring organisation whose primary purpose is to bring you the highest quality headwear available.

Errors in form

Sorry, there seems to be a problem with the data you supplied. Your form has a total of **2** errors.

Error List:

1. Error in field 'email': *Missing or invalid email?*

2. Error in field 'comment': *Missing comment?*

Click here to return to the feedback form

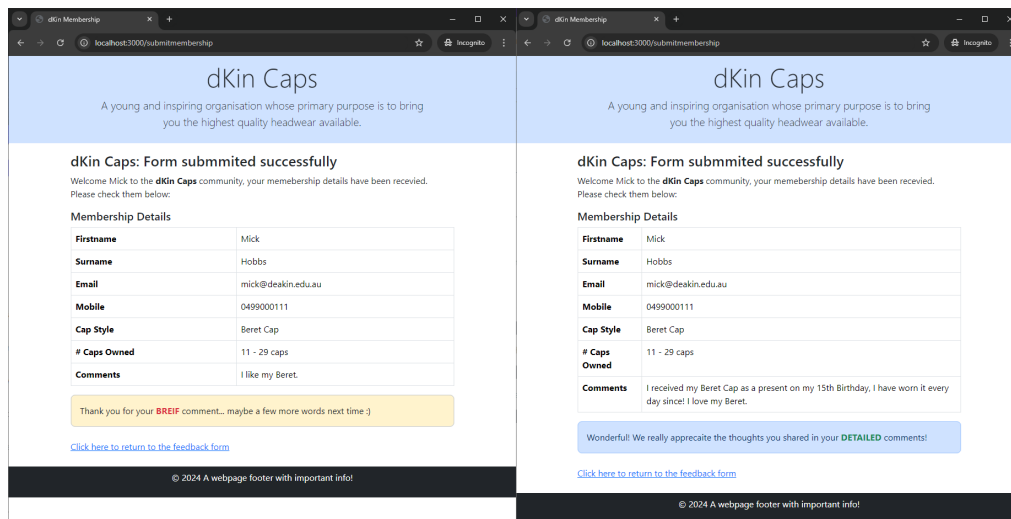
© 2024 A webpage footer with important info!

Task9.2.2c Example error response for an incorrect email and missing comment

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The second is to extend the functionality of your `thankyou.ejs` template to dynamically present different content based on the **number of characters** (length) of the comment provided. If the comment was short (< 20 characters) then display a relevant message, otherwise a different message if the comment was longer. Examples of the possible output for the **BREIF** and **DETAILED** responses are shown below:



Task9.2.3 Dynamic content in template file with comment size less than 20' on left, and more on right

What will you submit?

You should submit:

- Source code of the modified *Node.js* file (i.e., the `index.js` file).
- Source code of the modified *thankyou* template file (i.e., the `thankyou.ejs` file).
- Screenshots (five) in a single PDF document, of the browser window showing:
 - the response from invalid (missing) **ALL** fields.
 - the response from invalid (missing) *SOME* fields.
 - the response from an invalid *EMAIL* field.
 - a response to a *BREIF* comment provided.
 - a response to a *DETAILED* comment provided.