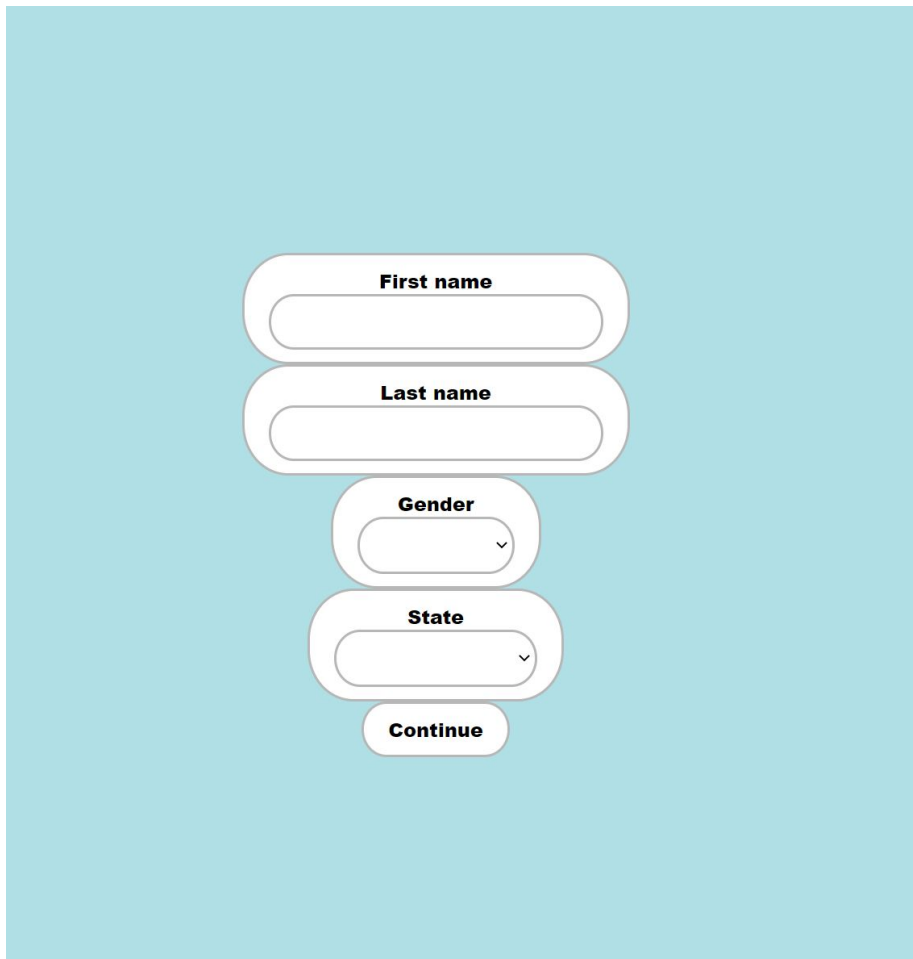


Alec Meyer
Homework 2 Report
Section 2
COMS319

Using html I was able to set up text fields and drop-down boxes. Using javascript I was able to add validation functions which would use regexs to check if an input matched what was required (i.e. `/^\\w+([\\.-]?\\w+)*@\\w+([\\.-]?\\w+)*(\\.\\w{2,3})+$/` was used to validate the email field was in the correct format). I used javascripts 'alert' function to post an alert message on the webpage describing what they were missing from the required fields. From there I used the DOM API which allowed me to create objects of the images; 'correct.png' and 'wrong.png' which made it much simpler to add and remove from the html page. I had an initial issue where the images would just keep overlapping but with the DOM API was able to make an array of elements and remove them when needed:

```
//removes the images so they don't stack
if(divElement.lastChild != null)
{
    divElement.removeChild(divElement.lastChild);
}
divElement.appendChild(img);
```

Homepage with no input:



Homepage with alert message:

This page says
first name must be alphanumeric
state cannot be left blank

OK

First name
@lec

Last name
Meyer

Gender
Male

State

Continue

The image shows a registration form on a light blue background. At the top, a dark grey alert box contains the text "This page says" followed by two error messages: "first name must be alphanumeric" and "state cannot be left blank". An "OK" button is in the bottom right of the alert box. Below the alert, the form fields are: "First name" with the value "@lec", "Last name" with the value "Meyer", "Gender" with a dropdown menu showing "Male", and "State" with an empty dropdown menu. A "Continue" button is at the bottom.

Homepage after validation:

First name
@lec

Last name
Meyer

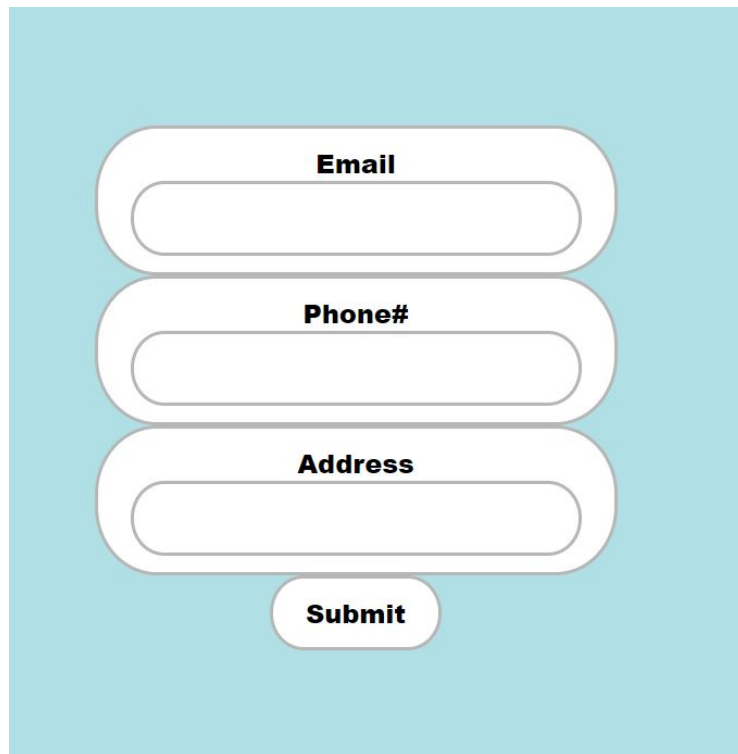
Gender
Male

State

Continue

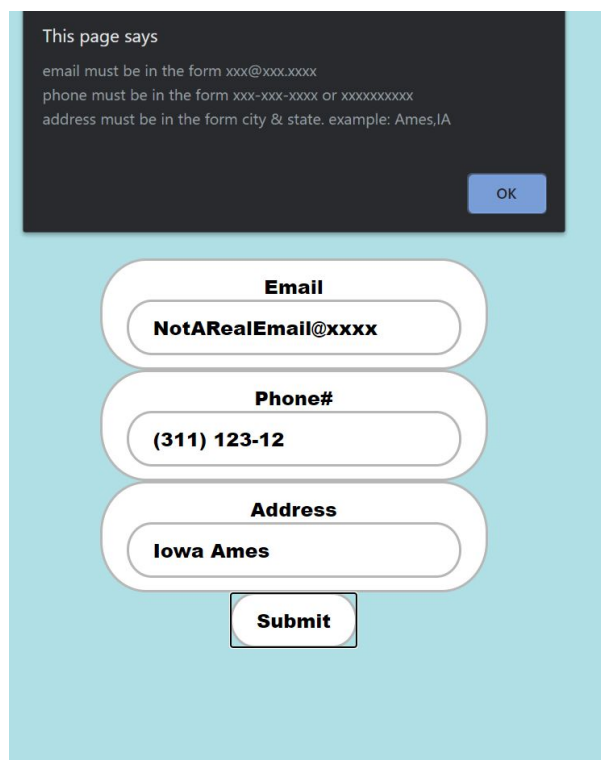
The image shows the same registration form after validation. The "First name" field now has a red "X" icon to its right, indicating it is invalid. The "Last name" field has a green checkmark icon to its right, indicating it is valid. The "Gender" field has a green checkmark icon to its right, indicating it is valid. The "State" field has a red "X" icon to its right, indicating it is invalid. The "Continue" button remains at the bottom.

Second page with no input:



A form on a light blue background with three input fields and a submit button. The first field is labeled "Email", the second "Phone#", and the third "Address". Each field is a white rounded rectangle with a thin grey border. Below the fields is a white rounded rectangle labeled "Submit".

Second page with alert message:



A form on a light blue background with three input fields and a submit button. The first field is labeled "Email" and contains the text "NotARealEmail@xxxx". The second field is labeled "Phone#" and contains the text "(311) 123-12". The third field is labeled "Address" and contains the text "Iowa Ames". Below the fields is a white rounded rectangle labeled "Submit". Above the form is a dark grey alert box with the text "This page says" followed by three lines of instructions: "email must be in the form xxx@xxx.xxx", "phone must be in the form xxx-xxx-xxxx or xxxxxxxxxx", and "address must be in the form city & state. example: Ames,IA". An "OK" button is in the bottom right corner of the alert box.

Second page after validation:

The image shows a form validation interface on a light blue background. It consists of three stacked white rounded rectangles. The first rectangle is labeled 'Email' and contains the text 'NotARealEmail@xxxx.com' with a green checkmark icon to its right. The second rectangle is labeled 'Phone#' and contains the text '(311) 123-1254' with a green checkmark icon to its right. The third rectangle is labeled 'Address' and contains the text 'Iowa Ames' with a red 'X' icon to its right. Below these three rectangles is a small white rounded rectangle labeled 'Submit'.

Submit page (after second page is successful):

The image shows a form submission success message on a light blue background. It consists of a single white rounded rectangle at the top left containing the text 'Form successfully submitted!'. The rest of the page is empty.