CS319 Section 2 1/29/2020 Zhanghao Wen

2.1 Solution approach:

Run 4 functions to validate each entry: validate first name, last name, gender, and state.

In name validation function, take advantage of /^[0-9a-zA-Z]+\$ to test whether input contain only numbers or alphabetic symbols.

In gender and state validation function, check whether the input is empty ("---select---"), if not, then it means that user has selected, then passed validation rules.

In each validation function implementation, if requirement is not matched, then its corresponding text of validation rules would become red to notify user and "result" section will display a red cross mark. If passed, then a green check mark will display in "result" section.

If user failed a single validation, then at the very bottom will display again to let user follow validation rule. To do this, I took advantage of & operator instead of && in if condition to make sure execute all functions in if condition.

If all four validation are passed, then the page will be direct to another page called validation2.html. Well before this action do, you probably can notice that you got all 4 green check marks during a very short moment.

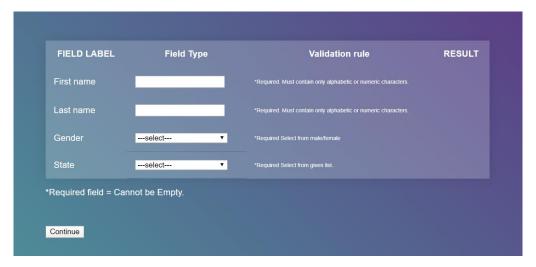
2.2 Solution approach:

The solution approach of this section is pretty similar to last section's approach. The difference is that we removed one row in the table. The general process includes rename table cell contents, change variable name and its corresponding ID name, create validation functions to handle different entries.

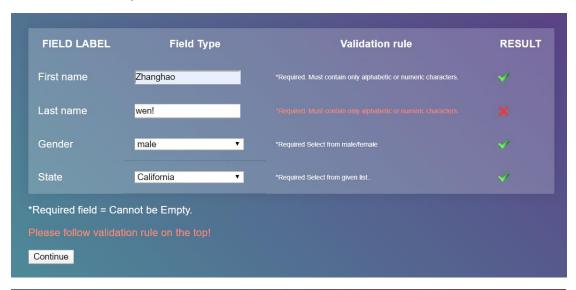
For validate email and phone, we need to analyze the format where we utilized split method to analyze part by part. For example, email format includes xxx@xxx.xxx where x should be alphanumeric, and phone format must be in the form xxx-xxx-xxxx or xxxxxxxxx. x should be numeric. So we split them and verify the property of their values. Two helper functions called alphaNumCheck and numCheck are created and they used key function of HTML pattern matching. For example /^[a-z0-9]+\$/I can represent all values from a-z and 0-9 case insensitive.

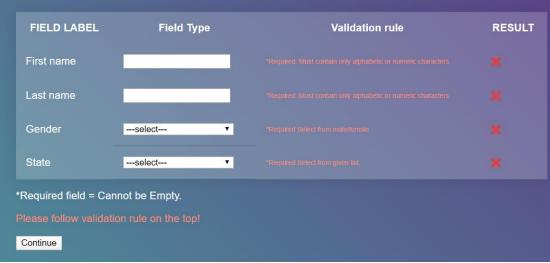
Screenshot:

Open validation1.html:

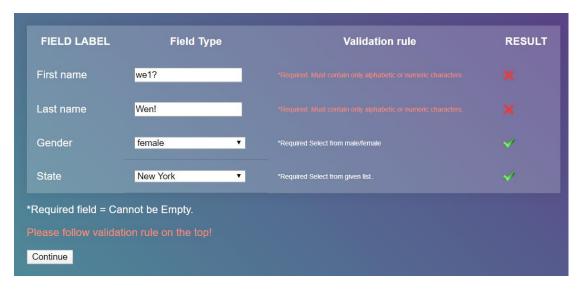


Below are some examples of validation failed:

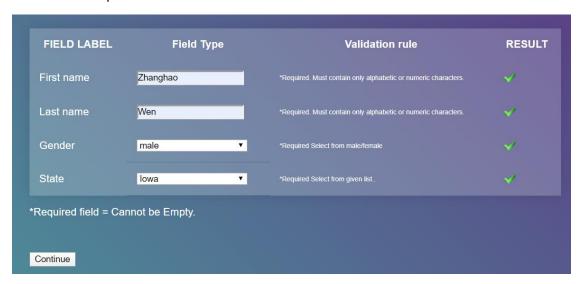




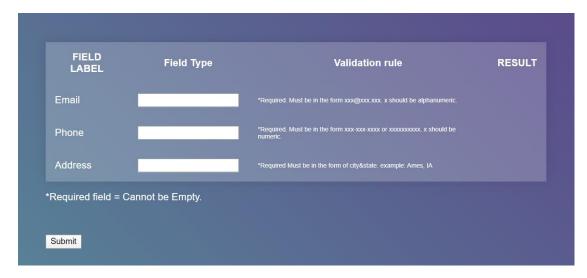




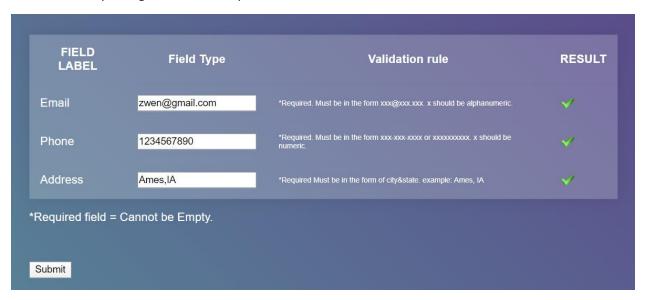
Next is an example of success validation:



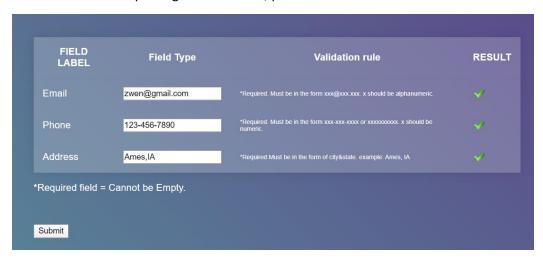
Click continue and it will direct to next page:



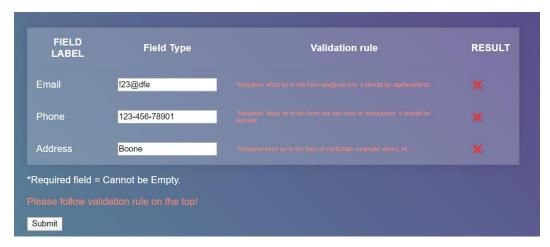
This is an example of good validation, phone format is xxxxxxxxxx:



This is another example of good validation, phone format is xxx-xxx-xxxx:



This is an example of bad validation:



So, if one entry does not match its rule, then the text will turn red to notify the user and also above the submit button there will be another notification. Only all 3 conditions match then the notification will disappear:

