

IS113 - Web Application Development

Week 5

Sections G4/G5

K. J. Shim

Agenda Today

- String & Array functions
- Custom functions
- Multi-dimensional arrays
- Form Processing Exercises
 - Exercise "Celebrity"
 - Multi-dimensional arrays
 - Exercise "CCA"
 - Form validation using string functions
 - Self-calling PHP

Before we start...

- Open **Slack** app
 - Go to <https://is113-oppa.slack.com/>
- In a new tab, go to **w3schools.com** & leave it open
 - <https://www.w3schools.com/>

Go to your **webroot**

- Go to eLearn -> Content -> Session 5 -> In Class -> **week5.zip**
- Unzip **week5.zip** such that you have the following directory structure locally:

```
webroot -  
|-- is113  
|   |-- week5  
|       |-- string_array_functions.php  
|       |-- celebrity  
|           |-- search1.html  
|           |-- search2.html  
|           |-- search3.html  
|           |-- search4.html  
|           |-- do_search1.php  
|           |-- do_search2.php  
|           |-- do_search3.php  
|           |-- do_search4.php  
|       |-- cca  
|           |-- check.php
```

Exercise 1

Celebrity

Hollywood Family Search (Version 1)

Select a Hollywood family surname:

- ☒ Kardashian
- ☐ Jonas
- ☐ Jolie-Pitt

Show Me The Family

- **search1.html** page is completed already for you.
- **Please DO NOT modify this file's content**
- Inspect **Form Input Fields – How do I do it?**
 - 1) Open **search1.html** in Web Browser via URL → Right Click → **View Source**
 - or
 - 2) Open **search1.html** in **Visual Studio Code (Editor)**
- For this exercise, the first radio option is pre-selected/checked by default.
 - The user may select another option.

- Modify **do_search1.php** - Complete All **8 Tasks** inside
- The celebrity family information is stored in **4 different Array variables**.
- In each task, you will be asked to use a specific Array variable.

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Hollywood Family Search (Version 2)

Select a Hollywood family surname:

- ☒ Kardashian
☐ Jonas
☐ Jolie-Pitt

Show me only ☐ Male ☐ Female ☒ Any Gender family members

Show Me The Family

- **search2.html** page is completed already for you.
- **Please DO NOT modify this file's content**
- Inspect **Form Input Fields**
- For this exercise:
 - Surname radio input's 1st option is pre-selected by default
 - Gender radio input's 3rd option is pre-selected by default

■ Modify **do_search2.php** - Complete All **2 Tasks** inside

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■ Select Gender "Male"

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■ Select Gender "Female"

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Hollywood Family Search (Version 3)

Select a Hollywood family surname:

- ☒ Kardashian
☐ Jonas
☐ Jolie-Pitt

Show me only ☐ Male ☐ Female ☒ Any Gender family members

Show me whose net worth is **Greater Than** (USD Million)
(Leave the input field EMPTY if you wish to view ALL)

Show Me The Family

- **search3.html** page is completed already for you.
- **Please DO NOT modify this file's content**
- Inspect **Form Input Fields**
- For this exercise:
 - Surname radio input's 1st option is pre-selected by default
 - Gender radio input's 3rd option is pre-selected by default
- However, the "net worth" input text field is left empty.

■ Modify **do_search3.php** - Complete All **2 Tasks** inside

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- We left “**net worth**” input text field **EMPTY** (the grey text is a placeholder – not actual text passed to PHP)

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Hollywood Family Search (Version 4)

Select a Hollywood family surname:

☒ Kardashian
☐ Jonas
☐ Jolie-Pitt

Show me only ☐ Male ☐ Female ☒ Any Gender family members

Show me whose net worth is:

Any (USD Million)

Show Me The Family

Greater Than
Less Than
✓ Any

*Single-Choice
Drop-down menu*

- **search4.html** page is completed already for you.
- **Please DO NOT modify this file's content**
- Inspect **Form Input Fields**
- For this exercise:
 - Surname radio input's 1st option is pre-selected by default
 - Gender radio input's 3rd option is pre-selected by default
- However, the "net worth" input text field is left empty.
- The user can select a comparison operator (greater than, less than, any) from drop-down menu . **"Any" means – any amount.**

■ Modify **do_search4.php** - Complete All **2 Tasks** inside

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- For “net worth”, we selected “Any” and left the amount field EMPTY.

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Exercise 2

CCA

Check Your Eligibility

Cumulative SMU GPA:

Gender: ☒ Girl ☐

What Year Are You?

☐ 1 ☐ 2 ☐ 3 ☐ 4

Which school(s) do you belong to?

- ☐ SOA
- ☐ LKCSB
- ☐ SOL
- ☐ SOSS
- ☐ SOE
- ☐ SIS

- **check.php** is partially completed.
- Open in **Visual Studio Code (Editor)** and inspect the **HTML source**
- When it is **visited for the first time**, the webpage displays an empty survey form:

- **GPA** input text field is empty
- **Gender** option "Girl" is pre-selected
- **Year** radio buttons are left un-selected
- **School** checkbox options are left un-selected

- In the **HTML source**, did you notice these?

```
<form action='check.php' method='GET'>
```

```
<input type='submit' name='submit_check' value='Check'>
```

- When **SUBMIT button** is pressed, this PHP page will **go back to itself**.
- The **SUBMIT button** has **name** (in all previous exercises, we did not NAME submit buttons).

Form Validation & CCA Eligibility Criteria

■ Form Validation

- All fields (GPA, Gender, Year, School) must be filled out or selected.
- GPA
 - Cannot be **empty**
 - Must be **numeric**
- Year
 - One option must be selected
- School
 - At least one option must be selected

Write a custom function
is_eligible()

■ CCA Joining Eligibility

(This info is available at the top of **check.php**)


```
/*  
    Student is eligible to join CCA if he/she meets ALL of the following conditions:  
  
    1) He/she can be of any gender  
    2) He/she must have a minimum GPA of 2.75 (greater than or equal to 2.75)  
    3) He/she must be Year 2 or above  
    4) He/she must belong to SIS or LKCSB  
*/
```


check.php

(after loading the page fresh
for the first time, user fills
out the form)

Check Your Eligibility

Cumulative SMU GPA:

Gender: 

What Year Are You?

☐ 1 ☐ 2 ☒ 3 ☐ 4

Which school(s) do you belong to?

- ☐ SOA
- ☐ LKCSB
- ☐ SOL
- ☐ SOSS
- ☒ SOE
- ☒ SIS


check.php

(after SUBMIT button is pressed)

Check Your Eligibility

You Are Eligible

Cumulative SMU GPA:

Gender: 

What Year Are You?

☐ 1 ☐ 2 ☐ 3 ☐ 4

Which school(s) do you belong to?

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check.php

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Check Your Eligibility

Cumulative SMU GPA:

Gender:

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check.php

(after SUBMIT button is pressed)

Check Your Eligibility

Sorry! You are NOT Eligible!

Cumulative SMU GPA:

Gender:

What Year Are You?

☐ 1 ☐ 2 ☐ 3 ☐ 4

Which school(s) do you belong to?


- ☐ SOA
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check.php

(after loading the page fresh
for the first time, user leaves
the form empty)

Check Your Eligibility

Cumulative SMU GPA:

Gender: 

What Year Are You?

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Which school(s) do you belong to?

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check.php

(after SUBMIT button is pressed)

Check Your Eligibility

- Please enter GPA
- Please select year
- Please select one or more school(s)

Cumulative SMU GPA:

Gender: 

What Year Are You?

☐ 1 ☐ 2 ☐ 3 ☐ 4

Which school(s) do you belong to?


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(after SUBMIT button is pressed)

Check Your Eligibility

- Please select year
- Please select one or more school(s)

Cumulative SMU GPA:

Gender: 

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check.php

(after SUBMIT button is pressed)

Check Your Eligibility

- Please select one or more school(s)

Cumulative SMU GPA:

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(after SUBMIT button is pressed)

Check Your Eligibility

- Please enter GPA

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check.php

(after SUBMIT button is pressed)

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• Please select one or more school(s)

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Can you remember the user's previous selections and pre-populate the form?

Week 5 Exercises

- Continue to work on **Week 4 Exercises**
 - <https://smu.sg/2021-spring-is113-wk4-doc> (Google Doc)
- Complete
 - **Question 6** (Like)
 - **Question 8** (Temperature Conversion)
 - **Question 9** (Select)
 - **Question 10** (Fortune Cookie)
 - **Question 11** (Validate & Forward)