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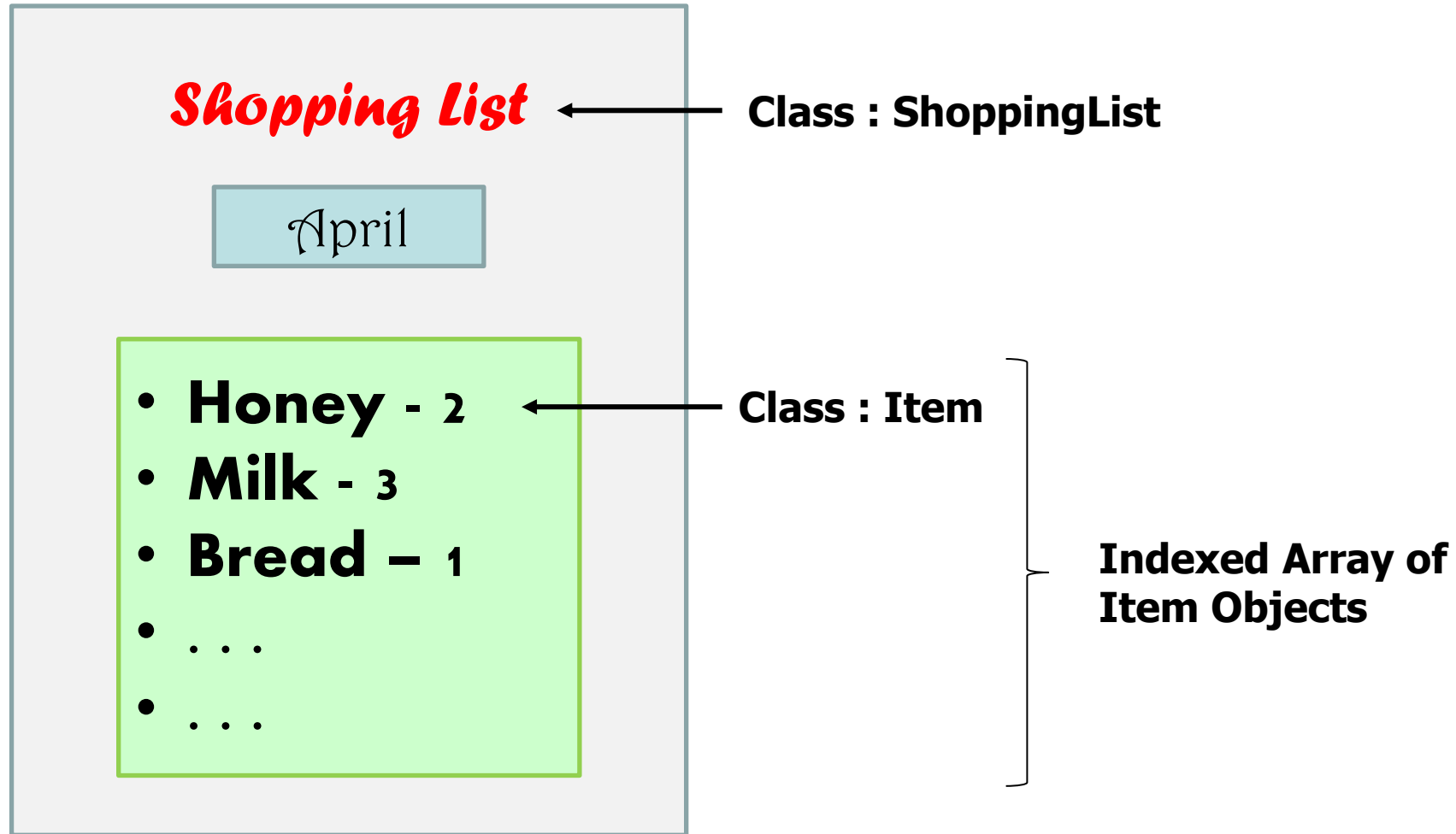UNIVERSITY

IS113 Web Application Development I

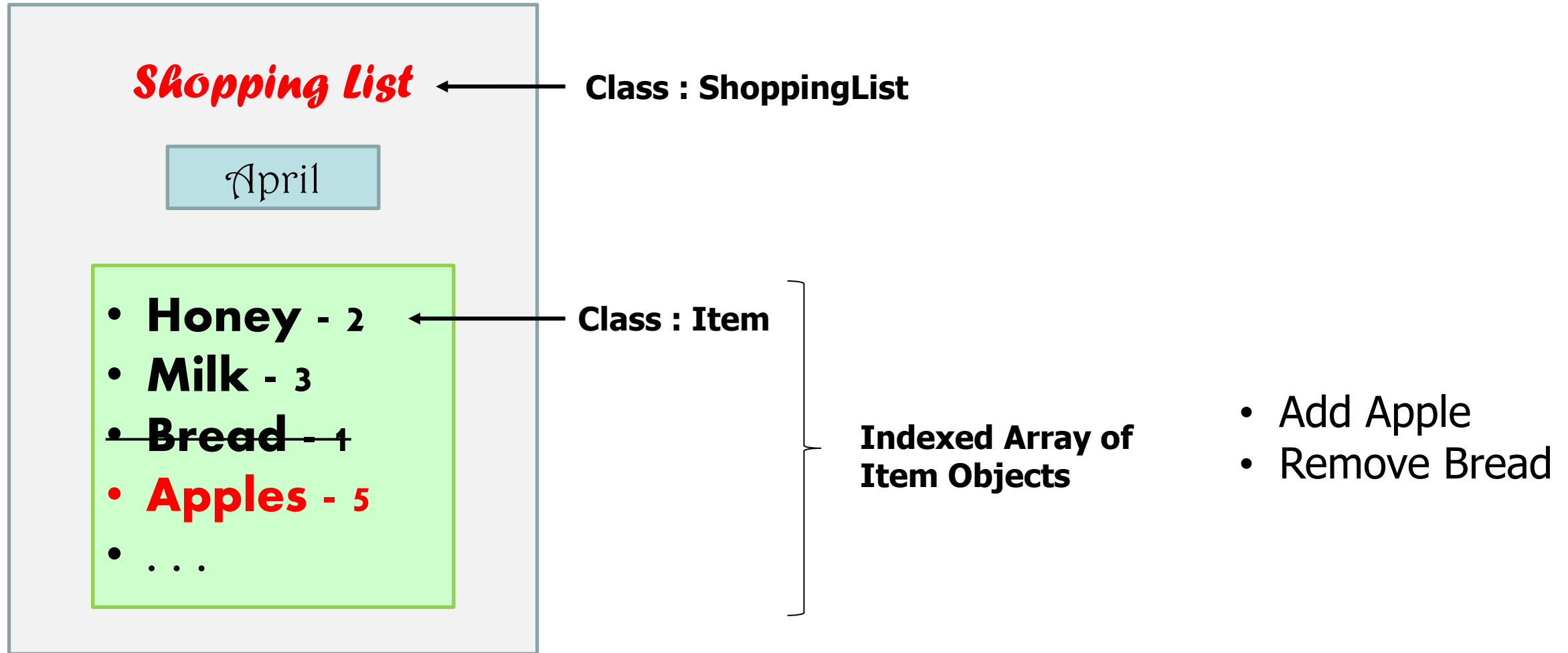## Week 10 In-Class notes

[G10]

~ LAU Yi Meng ~

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Part III – Classes & Objects II
(objects in object)

Shopping

Shopping List ← **Class : ShoppingList**

April

- **Honey** - 2 ← **Class : Item**
- **Milk** - 3
- **Bread –** 1
- . . .
- . . .

Indexed Array of Item Objects

Shopping

Shopping List ← **Class : ShoppingList**

April

• **Honey** - 2 ← **Class : Item**

• **Milk** - 3

• ~~**Bread** - 1~~

• **Apples** - 5

• . . .

Indexed Array of Item Objects

• Add Apple
• Remove Bread

Shopping

- Class **Item** is provided.

- Complete class **ShoppingList** in **ShoppingList.php** to include :
  - a function **addItem** ($item)
    - adds an **Item** object into the Shopping List .

  - a function **removeItem** ($item_name)
    - remove the **Item** object that has name=$item_name

Shopping

- Complete `shop.php` such that it displays the following.

Item	Qty	Unit Price
Honey	2	5.2
Milk	3	3.4
Bread	1	1.8

Item	Qty	Unit Price
Honey	2	5.2
Milk	3	3.4
Bread	1	1.8
Apples	5	0.6

Item	Qty	Unit Price
Honey	2	5.2
Milk	3	3.4
Apples	5	0.6

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Part IV – Classes & Objects II
(DAO)

National Flowers

- Complete the method in `NationalFlowerDAO.php`
  - `retrieveAll()`

- Complete `flower_list.php` such that it displays the following.

List of National Flowers

Country	National Flower
AUSTRALIA	GOLDEN WATTLE
AUSTRIA	EDELWEISS
BAHAMAS	YELLOW ELDER
BELGIUM	RED POPPY
BELIZE	BLACK ORCHID
BHUTAN	BLUE POPPY
BOHEMIA	THYME
BRAZIL	CATTLEYA ORCHID
CANADA	MAPLE LEAF
CHINA	PLUM BLOSSOM
COLUMBIA	CATTLEYA TRIANAE
DENMARK	MARGUERITE DAISY
ECUADOR	ROSE
ETHIOPIA	CALLA LILY
FRANCE	IRIS
GERMANY	CORNFLOWER
HOLLAND	TULIP
HONG KONG	ORCHID BAUHINIA
ITALY	LILY
JAPAN	CHERRY BLOSSOM
KYRGYZSTAN	TULIP
LUXEMBOURG	ROSE
MALDIVES	PINK ROSE
POLAND	CORN POPPY
RUSSIA	CAMOMILE
SCOTLAND	THISTLE
SINGAPORE	VANDA MISS JOAQUIM ORCHID
SPAIN	RED CARNATION
SWITZERLAND	EDELWEISS
TURKEY	TULIP
UKRAINE	SUNFLOWER
UNITED STATES	ROSE

To show all National Flower. Click here
To search for the National Flower for a country. Click here
To search for similar National Flowers Click here
To create a new record. Click here

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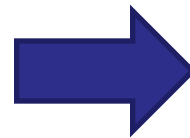
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National Flowers

- Complete the methods in `NationalFlowerDAO.php`
  - `retrieveCountryList()`
  - `getFlowerByCountry($country)`
- Complete `flower_for_country.php` such that it displays the following.

National Flowers

Choose a Country : AUSTRALIA ▼ Get National Flower

To show all National Flower. Click here
To search for the National Flower for a country. Click here
To search for similar National Flowers Click here
To create a new record. Click here

When the page is first loaded.
User select the country "HOLLAND"

National Flowers

Choose a Country : HOLLAND ▼ Get National Flower

The national flower for HOLLAND is TULIP

To show all National Flower. Click here
To search for the National Flower for a country. Click here
To search for similar National Flowers Click here
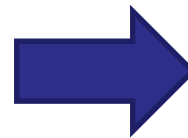To create a new record. Click here

What will be shown after clicking "Get National Flower"

National Flowers

- Complete the methods in `NationalFlowerDAO.php`
  - `getCountryWithSimilarFlowers($str)`
- Complete `flower_similar.php` such that it displays the following.

Similar National Flowers

Enter a type of flower : [   ]

Find

When the page is first loaded.
User enters "rose"

Similar National Flowers

Enter a type of flower : [   ]
Find
National Flowers which contains **rose**

Country	Flower
ECUADOR	ROSE
LUXEMBOURG	ROSE
MALDIVES	PINK ROSE
UNITED STATES	ROSE

What will be shown after clicking "Find"

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Exercise : National Flowers

- Next week …

  - Convert the DAO to access data from the database using PDO (PHP Data Objects).

  - We can perform additional functions (CRUD) via DAO
    - Create a new record
    - Update a National Flower
    - Delete a record

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