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## IERG4210 Assignment Phase 2A & 2B



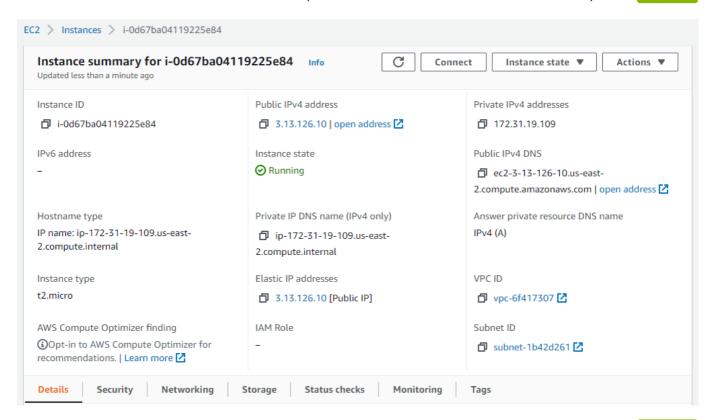
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Please refer to https://github.com/leightonllc/IERG4210 for the git record.

## Phase 2A marking checklist

1. Instantiate a free Virtual Cloud Machine (Amazon EC2 recommended or other free VPS).

complete



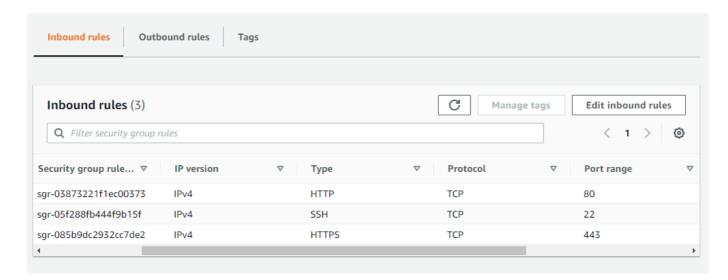
2. Apply necessary security configurations.

complete

• Apply proper firewall settings to your VM: block all ports except 22, 80 and 443 only

complete

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Apply proper updates for the server software packages in a regular manner

Hide the versions of OS, Apache, and PHP in HTTP response headers

```
C:\Users\User>curl -I 3.13.126.10
HTTP/1.1 200 OK
Date: Mon, 21 Feb 2022 10:45:08 GMT
Server: Apache
Expires: Thu, 19 Nov 1981 08:52:00 GMT
Cache-Control: no-store, no-cache, must-revalidate
Pragma: no-cache
Set-Cookie: PHPSESSID=u22u9docm81vcp2nf0gbrfdtej; path=/
Upgrade: h2,h2c
Connection: Upgrade
Content-Type: text/html; charset=UTF-8
```

- Do not display any PHP warnings and errors to the end users - Disable directory index in Apache



You don't have permission to access this resource.

- 3. Configure the VM so that your website is accessible at http://s1155127347.ierg4210.ie.cuhk.edu.hk

Submit your elastic IP through the provided Google Form link before 5pm, Feb 13, 2022

- TAs will then assign you a domain name and configure the DNS mapping for you

Apply for an elastic public IP, and ALWAYS associate it with the instantiated VM

- Upload all your pages to the server. They should then be accessible through:
  - http://3.13.126.10, or
  - http://s1155127347.ierg4210.ie.cuhk.edu.hk

## Phase 2B marking checklist

1. SQL: Create a database with the following structures

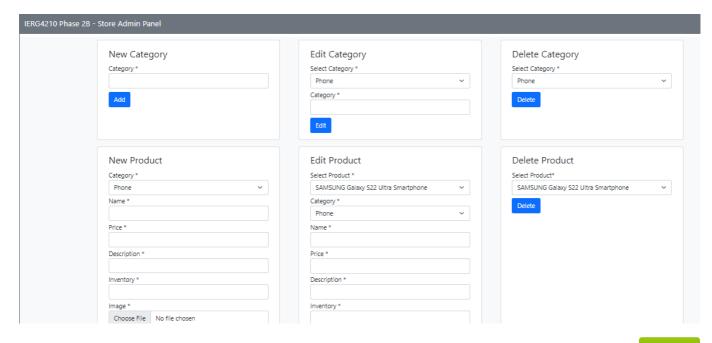
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sglite> .schema CREATE TABLE CATEGORIES ( CATID INTEGER PRIMARY KEY, NAME TEXT); CREATE TABLE PRODUCTS ( PID INTEGER PRIMARY KEY, CATID INTEGER, NAME TEXT, PRICE REAL, DESCRIPTION TEXT, INVENTORY INTEGER, FILENAME TEXT, FOREIGN KEY(CATID) REFERENCES CATEGORIES(CATID)); CREATE INDEX I1 ON PRODUCTS(CATID);

A table for categories

- o Required columns: catid (primary key), name
- Data: at least 2 categories of your choice
- A table for products (supposed to submit the list to PayPal, currently no function)

- Required columns: pid (primary key), catid, name, price, description
- Data: at least 2 products for each category
- 2. HTML, PHP & SQL: Create an admin panel http://3.13.126.10/admin/admin.php



Design several HTML forms to manage products in DB

Dropdown menu to select catid according to its name

Input fields for inputting name, price

Textarea for inputting description

- File field for uploading an image (format: jpg/gif/png, size: <=10MB)</li>
  - For the file uploaded, store it with its name based on the unique lastInsertId() (or other
- reasonable ways) Design several HTML forms to manage categories in DB

3. HTML, PHP, SQL: Update the main page created in Phase 1

Populate the category list from DB

- Based on the category selected by the user, populate the corresponding product list from DB complete

- Is reflected as a query string in the URL
- 4. HTML, PHP & SQL: Update the product details page created in Phase 1

Display the details of a product based on its DB record

Display the inventory of a product based on its DB record

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5. Support of automatic image resizing for product images

complete

- When a large image is uploaded, the server will resize it and show a thumbnail image in the panel
- On the main page, display thumbnails. On the product description page, display the larger image.

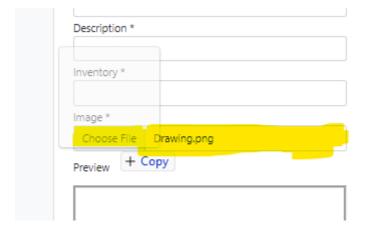
complete

6. Supporting HTML5 Drag-and-drop file selection in the admin panel

complete

• Create a dropping area that takes an image

complete



- Display a thumbnail (i.e. smaller width and height) if the dropped file is an image; reject it otherwise

Image \*

Choose File Drawing.png

Preview

Authorite attorn
Solders

Log in Fergil Password

Account Fetching Error Handling Account Fetching

Edit