

LYCEUM OF THE PHILIPPINES UNIVERSITY
MANILA, PHILIPPINES

COLLEGE OF TECHNOLOGY
BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

WSTL31C
(WEB SYSTEMS AND TECHNOLOGIES)

COURSE PORTFOLIO



| | |
|--------------------------------|-----------------------|
| Name: | ELEUTERIO, EZEKIEL B. |
| Member (s): | |
| Section: | C334_IT |
| Course Instructor / Professor: | MS. GEN-GEN ROMA |

COURSE SYLLABUS

| PRELIM | | | | |
|---|--|--|--|-------|
| Lesson Learning Outcomes (LLOs) | Learning Content | Learning Strategies/Methodologies | Learning Assessment Tools | Weeks |
| <ul style="list-style-type: none"> Describe the structure and working principles of the World Wide Web. Differentiate between static and dynamic web systems and explain their roles. | <p>Class Orientation</p> <ul style="list-style-type: none"> Classroom Policies Grade Computation <p>Week 1: Overview of Web Systems and the Internet Sub-Topics:</p> <ul style="list-style-type: none"> Evolution of the Web (Web 1.0 to Web 3.0) Web servers, clients, protocols (HTTP/HTTPS) Web Services Static vs Dynamic websites | <ul style="list-style-type: none"> Discussions Lecture Demonstration | <ul style="list-style-type: none"> Individual Presentation | 1 |
| <ul style="list-style-type: none"> Create structured and standard-compliant web pages using HTML5. Apply semantic tags to improve page readability and accessibility. | <p>Week 2: HTML5 – Building the Page Structure</p> <p>Sub-Topics:</p> <ul style="list-style-type: none"> Basic HTML structure and elements Semantic tags (header, nav, article, section, footer) Accessibility and web standards <p>Final Project Proposal Title</p> | <ul style="list-style-type: none"> Discussions Lecture Video Presentation | <ul style="list-style-type: none"> Assignment Quiz Activity Group Presentation | 2 |
| <ul style="list-style-type: none"> Apply CSS to design aesthetically pleasing web interfaces. Use layout systems like Flexbox and Grid for responsive designs. | <p>Week 3: CSS3 – Styling Web Pages</p> <p>Sub-Topics:</p> <ul style="list-style-type: none"> CSS syntax and selectors Box model, positioning, layout (flexbox, grid) Colors, backgrounds, typography | <ul style="list-style-type: none"> Discussions Lecture Demonstration | <ul style="list-style-type: none"> Assignment Quiz Hands-On Activity | 3 |
| <ul style="list-style-type: none"> Write basic JavaScript code to enhance webpage interactivity. Implement control structures and functions in web-based applications. | <p>Week 4: Introduction to JavaScript (Client-Side Scripting)</p> <p>Sub-Topics:</p> <ul style="list-style-type: none"> JavaScript syntax and variables Functions and control structures Data types and operators | <ul style="list-style-type: none"> Discussions Lecture Demonstration | <ul style="list-style-type: none"> Assignment Quiz Hands-On Activity | 4 |
| <ul style="list-style-type: none"> Use JavaScript to access and manipulate DOM elements. Implement interactive features using event-driven programming. | <p>Week 5: DOM Manipulation and Events</p> <p>Sub-Topics:</p> <ul style="list-style-type: none"> Document Object Model (DOM) DOM tree traversal and manipulation Event listeners and handlers | <ul style="list-style-type: none"> Discussions Lecture Demonstration | <ul style="list-style-type: none"> Assignment Quiz Hands-On Activity | 5 |
| Grades Consultation and Completion of Requirements Prelim Examination / Submission of Major Requirements | | | | 6 |

| MIDTERM | | | | |
|---|--|---|---|-------|
| Lesson Learning Outcomes (LLOs) | Learning Content | Learning Strategies/Methodologies | Learning Assessment Tools | Weeks |
| <ul style="list-style-type: none"> Construct functional web forms for data input. Validate user inputs on the client side using JavaScript. | Week 6: Forms and Client-Side Validation Sub-Topics: <ul style="list-style-type: none"> HTML form elements and input types Form attributes and structure JavaScript-based validation techniques | <ul style="list-style-type: none"> Discussions Lecture Demonstration | <ul style="list-style-type: none"> Assignment Quiz Hands-On Activity | 7 |
| <ul style="list-style-type: none"> Utilize a CSS framework to build responsive layouts quickly. Customize and integrate UI components into web pages. | Week 7: Front-end Frameworks (e.g., Bootstrap or Tailwind CSS) Sub-Topics: <ul style="list-style-type: none"> Using CDN or local installation Grid system and responsive utilities UI components and customization | <ul style="list-style-type: none"> Discussions Lecture Demonstration | <ul style="list-style-type: none"> Assignment Quiz Hands-On Activity | 8 |
| <ul style="list-style-type: none"> Develop simple server-side scripts to handle dynamic data. Integrate form inputs with server-side processing. | Week 8: Server-Side Scripting Introduction (PHP or Node.js) Sub-Topics: <ul style="list-style-type: none"> Setting up a local server (XAMPP/WAMP or Node.js) Syntax, variables, and functions Handling form data on the server | <ul style="list-style-type: none"> Discussions Lecture Demonstration | <ul style="list-style-type: none"> Assignment Quiz Hands-On Activity | 9 |
| <ul style="list-style-type: none"> Create and manage databases and tables for web apps. Perform basic CRUD operations from a web interface. | Week 9: Databases and SQL Sub-Topics: <ul style="list-style-type: none"> Introduction to databases (MySQL or MongoDB) Basic SQL commands (SELECT, INSERT, UPDATE, DELETE) Connecting database with PHP or Node.js | <ul style="list-style-type: none"> Discussions Lecture Demonstration | <ul style="list-style-type: none"> Assignment Quiz Hands-On Activity | 10 |
| <ul style="list-style-type: none"> Demonstrate knowledge of front-end technologies through a working web project. Analyze and evaluate peer web projects based on design and functionality. | Week 10: Midterm Assessment and Project Presentation Sub-Topics: <ul style="list-style-type: none"> Review of Weeks 1–7 Individual or group project demo Peer and instructor evaluation | <ul style="list-style-type: none"> Discussions Lecture Demonstration | <ul style="list-style-type: none"> Assignment Quiz Hands-On Activity | 11 |
| Grades Consultation and Completion of Requirements Midterm Examinations / Submission of Major Requirements | | | | 12 |

| FINAL TERM | | | |
|---|---|---|---|
| Lesson Learning Outcomes (LLOs) | Learning Content | Learning Strategies/ Methodologies | Learning Assessment Tools |
| <ul style="list-style-type: none"> Implement login systems using sessions and cookies. Secure user sessions for sensitive data. | Week 11: User Sessions, Cookies, and Authentication Sub-Topics: <ul style="list-style-type: none"> Session management in PHP or Node.js Storing user information with cookies Login/logout systems | <ul style="list-style-type: none"> Discussions Lecture Demonstration | <ul style="list-style-type: none"> Assignment Quiz Hands-On Activity |
| <ul style="list-style-type: none"> Retrieve external data from RESTful APIs using fetch/AJAX. Parse and display JSON data dynamically in web pages. | Week 12: RESTful APIs and JSON Data Sub-Topics: <ul style="list-style-type: none"> What is an API? What is REST? Fetch API and AJAX Working with JSON data | <ul style="list-style-type: none"> Discussions Lecture Demonstration | <ul style="list-style-type: none"> Assignment Quiz Hands-On Activity |
| <ul style="list-style-type: none"> Deploy a full web application to a live server. Configure hosting and domain settings for accessibility. | Week 13: Deployment and Web Hosting Sub-Topics: <ul style="list-style-type: none"> Web hosting platforms (GitHub Pages, Netlify, or traditional hosting) FTP and cPanel basics Domain names and DNS | <ul style="list-style-type: none"> Discussions Lecture Demonstration | <ul style="list-style-type: none"> Assignment Quiz Hands-On Activity |
| <ul style="list-style-type: none"> Identify and mitigate common web vulnerabilities. Apply secure coding standards in front-end and back-end development. | Week 14: Web Security and Best Practices Sub-Topics: <ul style="list-style-type: none"> Common security threats (XSS, SQL injection) HTTPS, SSL/TLS basics Secure coding and validation practices | <ul style="list-style-type: none"> Discussions Lecture Demonstration | <ul style="list-style-type: none"> Assignment Quiz Hands-On Activity |
| <ul style="list-style-type: none"> Present a fully functional, secure web system integrating all learned components. Reflect on the web development process and identify areas for improvement. | Week 15: Final Project Presentation and Course Wrap-Up Sub-Topics: <ul style="list-style-type: none"> web application demo Documentation and reporting Feedback and reflection | <ul style="list-style-type: none"> Presentation Demonstration | <ul style="list-style-type: none"> Presentation |
| Grades Consultation and Completion of Requirements Final Period Examination / Submission of Major Requirements | | | |

COURSE MATERIALS (LECTURES / REFERENCES)

|  <h2>Database and SQL</h2> <p>Engr. Gen-gen H. Roma</p> |  <h3>Database</h3> <ul style="list-style-type: none"> is an organized collection of information, or data, typically stored electronically in a computer system and managed by a Database Management System (DBMS). DBMS provides functionalities for storing, retrieving, and managing data effectively. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--------------------|------------------------------|--------------|------------|-------------|---------|---|------------------|---------------|------------|--------|-------|---------|---|-----------------------------------|---------------|------------------------------|--------------|------|-----------|---|-------------------------|-------------------|--------------|-------|-------|--------|---|-----------------|--------------|----------------|--------|---------|----|---|--------------------|--------------------|---------------|------|--------|--------|---|--------------|--------------|----------------------|-----------|---------|-------------|---|---------------------|-------------------|-----------------------|------------|-------|--------|---|
|  <h2>SQL</h2> <ul style="list-style-type: none"> is a standard language for accessing and manipulating databases. stands for Structured Query Language lets you access and manipulate databases became a standard of the American National Standards Institute (ANSI) in 1986, and of the International Organization for Standardization (ISO) in 1987 |  <h3>Using SQL in Your Web Site</h3> <p>To build a web site that shows data from a database, you will need:</p> <ul style="list-style-type: none"> An RDBMS database program (i.e. MS Access, SQL Server, MySQL) To use a server-side scripting language, like PHP or ASP To use SQL to get the data you want To use HTML / CSS to style the page | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <h2>Table</h2> <ul style="list-style-type: none"> is a collection of related data entries and it consists of columns and rows. A database most often contains one or more tables. Each table is identified by a name (e.g. "Customers" or "Orders"), and contain records (rows) with data. <table border="1"> <thead> <tr> <th>CustomerID</th> <th>CustomerName</th> <th>ContactName</th> <th>Address</th> <th>City</th> <th>PostalCode</th> <th>Country</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Athena Furniture</td> <td>Maria Andrade</td> <td>Obra 99-37</td> <td>Berlin</td> <td>12339</td> <td>Germany</td> </tr> <tr> <td>2</td> <td>Altaýka Empresarial y Importación</td> <td>Arie Sengupta</td> <td>Ave. de la Constitución 2222</td> <td>Buenos Aires</td> <td>1000</td> <td>Argentina</td> </tr> <tr> <td>3</td> <td>Antonio Hernández Tapia</td> <td>Antonio Hernández</td> <td>Huérmor 2322</td> <td>Pékin</td> <td>07232</td> <td>Mexico</td> </tr> <tr> <td>4</td> <td>Around the Horn</td> <td>Thomas Hardy</td> <td>229 narrow St.</td> <td>London</td> <td>W1A 2EP</td> <td>UK</td> </tr> <tr> <td>5</td> <td>Berglunds Matkasse</td> <td>Christina Berglund</td> <td>Bergengatan 8</td> <td>Lund</td> <td>210 00</td> <td>Sweden</td> </tr> <tr> <td>6</td> <td>Blauwe Kamer</td> <td>Frans Blaauw</td> <td>Prins Hendriklaan 98</td> <td>Amsterdam</td> <td>1015 NH</td> <td>Netherlands</td> </tr> <tr> <td>7</td> <td>Dumont pepe et fils</td> <td>François Charette</td> <td>24, place du Commerce</td> <td>Strasbourg</td> <td>67000</td> <td>France</td> </tr> </tbody> </table> | CustomerID | CustomerName | ContactName | Address | City | PostalCode | Country | 1 | Athena Furniture | Maria Andrade | Obra 99-37 | Berlin | 12339 | Germany | 2 | Altaýka Empresarial y Importación | Arie Sengupta | Ave. de la Constitución 2222 | Buenos Aires | 1000 | Argentina | 3 | Antonio Hernández Tapia | Antonio Hernández | Huérmor 2322 | Pékin | 07232 | Mexico | 4 | Around the Horn | Thomas Hardy | 229 narrow St. | London | W1A 2EP | UK | 5 | Berglunds Matkasse | Christina Berglund | Bergengatan 8 | Lund | 210 00 | Sweden | 6 | Blauwe Kamer | Frans Blaauw | Prins Hendriklaan 98 | Amsterdam | 1015 NH | Netherlands | 7 | Dumont pepe et fils | François Charette | 24, place du Commerce | Strasbourg | 67000 | France |  <h3>Some of The Most Important SQL Commands</h3> <ul style="list-style-type: none"> SELECT - extracts data from a database UPDATE - updates data in a database DELETE - deletes data from a database INSERT INTO - inserts new data into a database CREATE DATABASE - creates a new database ALTER DATABASE - modifies a database CREATE TABLE - creates a new table ALTER TABLE - modifies a table DROP TABLE - deletes a table CREATE INDEX - creates an index (search key) DROP INDEX - deletes an index |
| CustomerID | CustomerName | ContactName | Address | City | PostalCode | Country | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Athena Furniture | Maria Andrade | Obra 99-37 | Berlin | 12339 | Germany | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Altaýka Empresarial y Importación | Arie Sengupta | Ave. de la Constitución 2222 | Buenos Aires | 1000 | Argentina | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Antonio Hernández Tapia | Antonio Hernández | Huérmor 2322 | Pékin | 07232 | Mexico | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Around the Horn | Thomas Hardy | 229 narrow St. | London | W1A 2EP | UK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Berglunds Matkasse | Christina Berglund | Bergengatan 8 | Lund | 210 00 | Sweden | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Blauwe Kamer | Frans Blaauw | Prins Hendriklaan 98 | Amsterdam | 1015 NH | Netherlands | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Dumont pepe et fils | François Charette | 24, place du Commerce | Strasbourg | 67000 | France | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <h2>Example</h2> <p>The Example table contains five records (one for each customer) and seven columns (CustomerID, CustomerName, ContactName, Address, City, PostalCode, and Country).</p> |  <h3>The SQL SELECT Statement</h3> <p>statement is used to select data from a database.</p> <h4>Syntax</h4> <pre>SELECT column1, column2, ... FROM table_name;</pre> <h4>Example</h4> <pre>SELECT * FROM Customers;</pre> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|---|--|
|  <h1>PHP</h1> <p>Engr. Gen-gen H. Roma</p> |  <h3>What is server scripting language?</h3> <ul style="list-style-type: none"> also known as a server-side scripting language, is a type of programming language designed to run on a web server to generate dynamic content for web pages. |
|  <h3>What is server scripting language?</h3> <p>Unlike client-side scripting languages (like JavaScript in a browser), which run directly in the user's web browser, server-side scripts process requests and generate responses before the content is sent to the user's browser.</p> |  <h3>What is Server?</h3> <ul style="list-style-type: none"> is a computer or software that provides resources, data, or services to other computers, called "clients," over a network. |
|  <h3>What is Server?</h3> <ul style="list-style-type: none"> (previous image) known as the client-server model, where the server runs programs to manage network resources and fulfill requests from clients, such as a web server delivering web pages or a mail server handling emails. Servers are built for continuous operation, often featuring powerful hardware and designed to handle numerous requests simultaneously. |  <h3>Hardware Server</h3> <ul style="list-style-type: none"> is a powerful, dedicated physical machine that stores, processes, and manages data for client devices on a network. Unlike a standard computer, it is built for high performance, reliability, and continuous operation, often featuring superior processing power, more memory, and robust storage solutions. |
|  <h3>What is Domain Name?</h3> <ul style="list-style-type: none"> Top domain name providers in 2025 include GoDaddy, IONOS, Namecheap, Squarespace, and Cloudflare, offering services from domain registration and hosting to website builders and business tools. The best provider for you depends on factors like ease of use, bundled services, pricing for first-year and renewal terms, and the quality of their customer support. |  <h3>PHP</h3> <ul style="list-style-type: none"> A scripting language that is especially suited for Web Development can be embedded into HTML easily code is executed on the server, then sent it to the client, meaning code is hidden 78% of all websites used PHP |

| | |
|--|---|
|  <h1 style="margin: 0;">PHP Advanced</h1> <p style="margin: 0;">Engr. Gen-gen H. Roma</p> |  <p>Agenda:</p> <ul style="list-style-type: none"> • PHP Superglobals • PHP Form Validation • PHP Cookies • PHP Session • PHP Database • Certification Review (HTML) • EXAM Schedule • API • RESTFUL API |
|  <h2 style="margin: 0;">PHP Global Variables- Superglobals</h2> <p style="margin: 0;">Some predefined variables in PHP are "superglobals", which means that they are always accessible, regardless of scope - and you can access them from any function, class or file without having to do anything special.</p> |  <h2 style="margin: 0;">PHP Global Variables- Superglobals</h2> <p style="margin: 0;">The PHP superglobal variables are:</p> <ul style="list-style-type: none"> • <code>\$GLOBALS</code> • <code>\$_SERVER</code> • <code>\$_REQUEST</code> • <code>\$_POST</code> • <code>\$_GET</code> • <code>\$_FILES</code> • <code>\$_ENV</code> • <code>\$_COOKIE</code> • <code>\$_SESSION</code> |
|  <h2 style="margin: 0;">PHP - <code>\$_SERVER</code></h2> <p style="margin: 0;"><code>\$_SERVER</code> is a PHP super global variable which holds information about headers, paths, and script locations.</p> <pre style="margin: 0;"><!DOCTYPE html> <html> <body> <?php echo \$_SERVER['PHP_SELF']; echo " "; echo \$_SERVER['SERVER_NAME']; echo " "; echo \$_SERVER['HTTP_HOST']; echo " "; echo \$_SERVER['HTTP_REFERER']; echo " "; echo \$_SERVER['HTTP_USER_AGENT']; echo " "; echo \$_SERVER['SCRIPT_NAME']; ?> </body> </html></pre> |  <h2 style="margin: 0;">PHP <code>\$_REQUEST</code></h2> <ul style="list-style-type: none"> • In other words, <code>\$_REQUEST</code> is an array containing data from <code>\$_GET</code>, <code>\$_POST</code>, and <code>\$_COOKIE</code> |
|  <h2 style="margin: 0;">PHP <code>\$_REQUEST</code></h2> <ul style="list-style-type: none"> • You can access this data with the <code>\$_REQUEST</code> keyword followed by the name of the form field, or cookie, like this <pre style="margin: 0;"><code>\$_REQUEST['firstname']</code></pre> |  <h2 style="margin: 0;">Using <code>\$_REQUEST</code> on <code>\$_GET</code> Requests</h2> <pre style="margin: 0;"><!DOCTYPE html> <html> <body> Test <code>\$_GET</code> </body> </html></pre> |

ASSESSMENT TASK

WSTL31C

(WEB SYSTEMS AND TECHNOLOGIES)

EXERCISE

1

| | |
|-----------------------------------|-----------------------|
| Student Name / Group Name: | ELEUTERIO, EZEKIEL B. |
| Members (if Group): | |
| Section: | C334_IT |
| Instructor: | MS. GEN-GEN ROMA |

Website Project Proposal: E-Commerce Plant Nursery Website

1. Introduction

An e-commerce platform that caters to both amateur and professional gardeners alike. This user-friendly platform offers a seamless online shopping experience, featuring a diverse selection of roses, dahlias, and orchids. The website will provide a streamlined platform for customers to browse and purchase plants.

2. Background of the study

The interest in gardening, especially flower gardening, has significantly grown in recent years. Plants such as roses, dahlias, and orchids are popular choices due to their beauty, variety, and suitability for home gardens. However, not all customers have easy access to these plants at local nurseries, and many people prefer the convenience of online shopping.

An online platform dedicated to selling these specific plants addresses this gap, providing customers with a direct and efficient way to purchase their favorite flowering plants. The website will not only serve as a digital storefront but also as a place to learn more about each plant type, offering product information and details.

3. Purpose and objectives

The primary purpose of this website is to provide an easy-to-navigate e-commerce platform for customers interested in buying flowering plants (roses, dahlias, orchids). The objectives of the project are:

- To showcase a vast selection of the mentioned products for sale.
- To educate users about the plant through descriptions and details.
- To offer a smooth and secure online shopping experience.
- To create a responsive, mobile-friendly website accessible to all users.

4. Scope of the project

The project scope will focus on developing a basic e-commerce website with the following features:

- Home page: Featured products, promotions
- Product catalog: A simple catalog that displays roses, dahlias, and orchids
- Product pages: Each plant will have a dedicated page with high quality images, descriptions, and prices.
- Shopping cart and checkout: A basic shopping cart system where customers can add items, proceed to checkout, and make secure payments.
- User accounts: Customers can create accounts to track their orders and save preferences
- Customer support pages: FAQs, return, refund policy, contact numbers and email

5. Delimitations of the project

- Limited Plant Selection: The website will only feature roses, dahlias, and orchids. Other plant types or gardening accessories will not be included at this stage.
- Basic Features Only: Advanced features such as personalized plant recommendations, chat support, or detailed customer feedback will not be included in this initial version.
- Local Delivery Only: The website will support delivery only within a local area or region. International or nationwide shipping will not be available.

ASSESSMENT TASK

WSTL31C

(WEB SYSTEMS AND TECHNOLOGIES)

EXERCISE

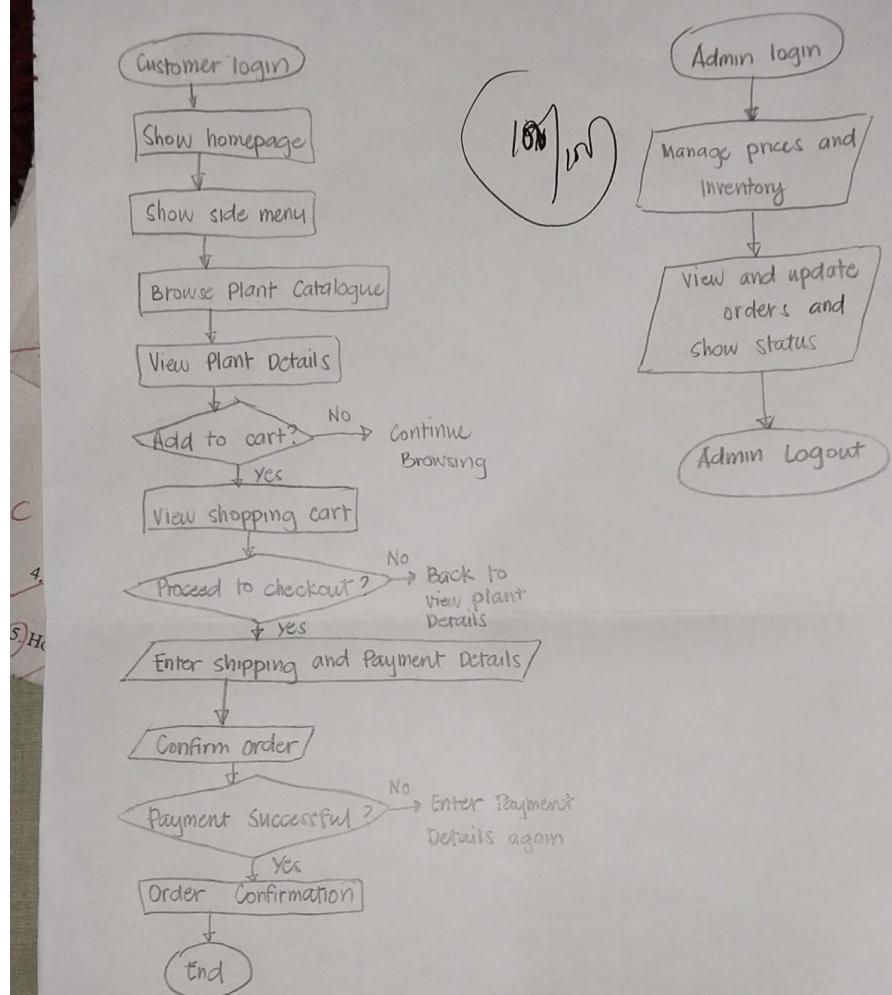
2

| | |
|-----------------------------------|-----------------------|
| Student Name / Group Name: | ELEUTERIO, EZEKIEL B. |
| Members (if Group): | |
| Section: | C334_IT |
| Instructor: | MS. GEN-GEN ROMA |

Flo
Eleutorio, Ezekiel B.
August 28, 2025

C33H - IT

LYCEUM



Proposed title: Sprout Haven (Plant nursery)

ASSESSMENT TASK

WSTL31C

(WEB SYSTEMS AND TECHNOLOGIES)

EXERCISE

3

| | |
|-----------------------------------|-----------------------|
| Student Name / Group Name: | ELEUTERIO, EZEKIEL B. |
| Members (if Group): | |
| Section: | C334_IT |
| Instructor: | MS. GEN-GEN ROMA |

Internal CSS :

```
<!DOCTYPE html>
<html>
<head>
<style>
body {
    background-color : blue ;
}
p {
    font-size : 20px ;
    font-color : white ;
}
</style>
<body>
<p> This is a text .</p>
</body>
</html>
```

SW | R

Inline CSS :

```
<!DOCTYPE html>
<html>
<body class = "background-color : blue;">
<p class = "font-size : 20px ; font-color : white;">
This is a text that should show a color
white text and be 20 pixels in size.
</p>
</body>
</html>
```

External CSS :

```
style.css
body {
    background-color : green ;
}
p {
    font-color : red ;
    font-size : 50px ;
}
<!DOCTYPE html>
<html>
<head>
<style>
<link rel = "stylesheet" href = "style.css" >
</style>
</head>
<body>
<p> Testing this text to see if it works .</p>
</body>
</html>
```

ASSESSMENT TASK

WSTL31C

(WEB SYSTEMS AND TECHNOLOGIES)

EXERCISE

4

| | |
|-----------------------------------|-----------------------|
| Student Name / Group Name: | ELEUTERIO, EZEKIEL B. |
| Members (if Group): | |
| Section: | C334_IT |
| Instructor: | MS. GEN-GEN ROMA |

Eleuterio, Ezekiel B.
C994 - IT

Test: Multiple Choice
Encircle the letter that represents your answer. Avoid erasures and form.

LYCEUM OF THE PHILIPPINES UNIVERSITY - MANILA
COLLEGE OF TECHNOLOGY
Department of Computer Science

Preliminary Examination
1st Semester, Academic Year 2025-2026
WSTL31C - Web Systems and Technologies - Gen-gen H. Roma

(72/100)
(70/100)
(83/100)

SO: Emphasis is placed on designing interactive, secure, and scalable web applications following best practices and industry standards.

Test I. Multiple Choice: Read each item carefully. Identify what is being asked on the following question. Write the correct answer. (40 points)

1. What is a correct syntax for an HTML hyperlink? 1. < a href = "index.html" > Home
2. Use the correct HTML attribute to make the link open in a new window. 2. < a href = "asp_images.html" target = "_blank" > HTML Images
3. What is a correct HTML markup for the document type declaration? 3. <!DOCTYPE html>
4. What is a correct way to add a background color to an HTML document? 4. body {body style = background-color: red;}

Use the correct HTML to make the image become a link to "default.html".

5. < a href = "default.html" > < img src = "smiley.gif" > < /a >

7-14 Place the start- and end-tags in the correct positions.

<!DOCTYPE html>

My First Heading

My First Paragraph

<h1>
</h1>

30
12
30

52

ASSESSMENT TASK

WSTL31C

(WEB SYSTEMS AND TECHNOLOGIES)

EXERCISE

5

| | |
|-----------------------------------|-----------------------|
| Student Name / Group Name: | ELEUTERIO, EZEKIEL B. |
| Members (if Group): | |
| Section: | C334_IT |
| Instructor: | MS. GEN-GEN ROMA |

Activity 1: CSS Box Model Challenge

Soft yellow



▶ 0:00 / 6:12 ━━━━ 🔍 ⏮

ASSESSMENT TASK

WSTL31C

(WEB SYSTEMS AND TECHNOLOGIES)

EXERCISE

6

| | |
|-----------------------------------|-----------------------|
| Student Name / Group Name: | ELEUTERIO, EZEKIEL B. |
| Members (if Group): | |
| Section: | C334_IT |
| Instructor: | MS. GEN-GEN ROMA |

Number Guessing Game

Guess a number between 1 and 100:

56

Guess

Reset

Game Over! The number was 45.

Attempts: 6 / 6

Number Guessing Game

Guess a number between 1 and 100:

31

Guess

Reset

Correct! The number was 31.

Attempts: 6 / 6

ASSESSMENT TASK

WSTL31C

(WEB SYSTEMS AND TECHNOLOGIES)

EXERCISE

7

| | |
|-----------------------------------|-----------------------|
| Student Name / Group Name: | ELEUTERIO, EZEKIEL B. |
| Members (if Group): | |
| Section: | C334_IT |
| Instructor: | MS. GEN-GEN ROMA |

Laboratory Activity
Web Systems and Technology
Midterm

Procedure:

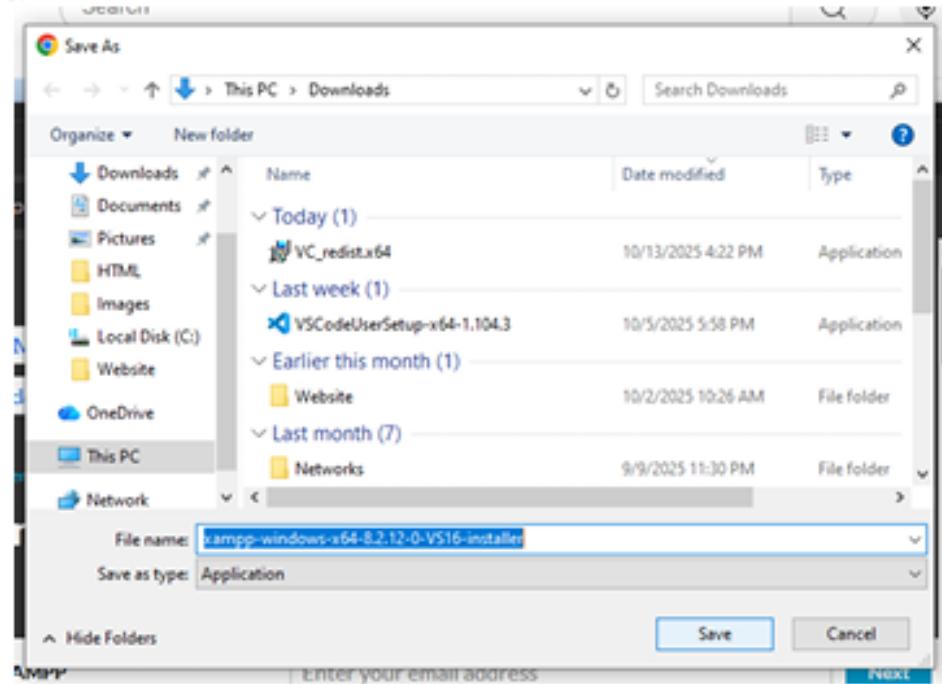
Step 1: Install a local server environment

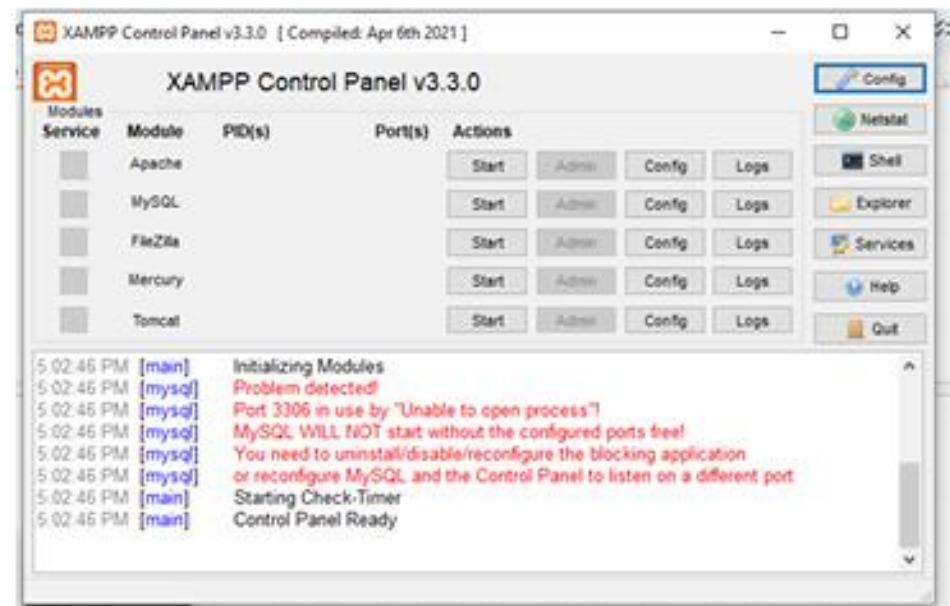
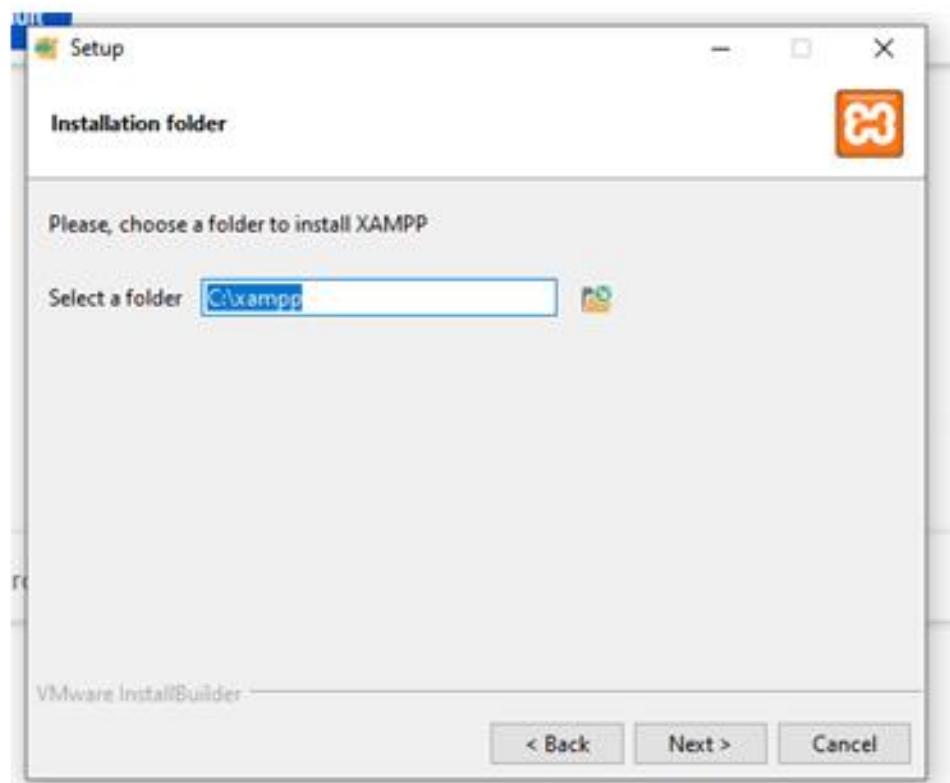
Since phpMyAdmin requires a web server (Apache), a database server (MariaDB/MySQL), and PHP to run, you will need to install a bundled software package.

Popular options include:

- **XAMPP**: Works on Windows, macOS, and Linux.
- **WAMP**: For Windows users.
- **MAMP**: For macOS users.

Answers:



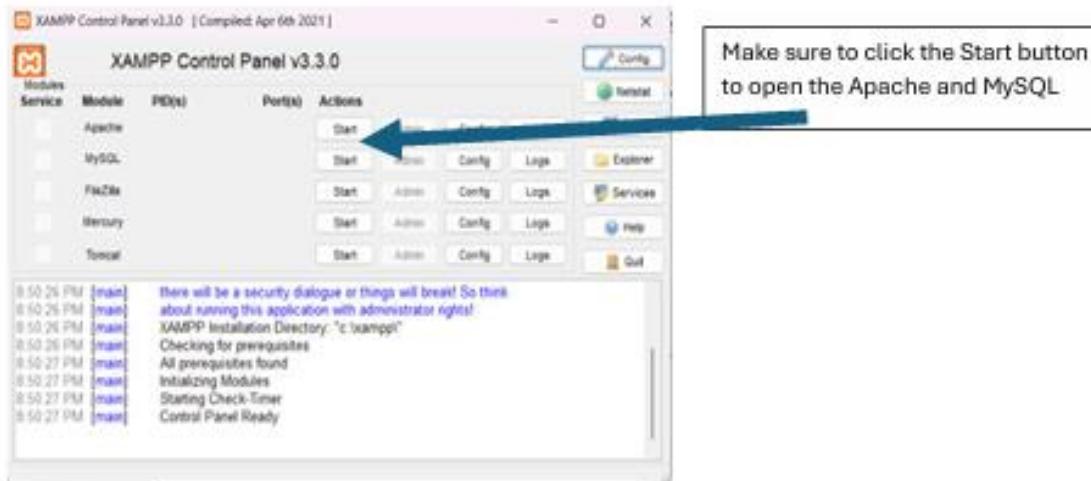


Step 2: Start the required services

After installing your server environment, you need to open its control panel and manually start the services.

For XAMPP, this means:

1. Open the **XAMPP Control Panel**.
2. Click the **Start** button next to **Apache**.
3. Click the **Start** button next to **MySQL**.
4. Ensure that both modules are running successfully.



- Once it green your server is now running



- Make sure to check the ports of Apache and MySQL as follows

| Module | PID(s) | Port(s) |
|--------|---------------|---------|
| Apache | 26368 3028 | 80, 443 |
| MySQL | 25340 | 3306 |

- Your now ready to test your server

Answer:



Step 3: Access phpMyAdmin

Once your servers are running, you can access the phpMyAdmin interface through your web browser.

- Open your web browser.
- Type `http://localhost/phpmyadmin` in the address bar and press Enter.
- Log in with your credentials. If you are using a new installation, the default username is often **root** with **no password**.



Then

it will redirect you to the admin panel

phpMyAdmin

General settings

- Server connection: `localhost:33064_mycode_0`
- Other settings

Database servers

- Server: 127.0.0.1 via TCP/IP
 - Server type: MySQL
 - Server connection: 3306, not being used
 - Server version: 10.4.20-MariaDB - maxvendi MySQL binary distribution
 - Protocol version: 10
 - User: root@localhost
 - Server status: OFFLINE (needs configuration)

Web server

- Apache/2.4.41 (Ubuntu) OpenSSL/1.1.1 PHP/8.2.10
 - Database client version: libmysql - mysqlclient-8.0.27
 - PHP extension: mysqli
 - PHP extension: mbstring
 - PHP version: 8.2.10

phpMyAdmin

- Version information: 5.2.1, latest stable version: 5.2.2
- Documentation
- Official Homepage
- Contrib
- Get involved
- Get involved
- Code changes
- Logout

Answer:

The screenshot shows the phpMyAdmin configuration page. On the left, there's a sidebar with 'Recent' and 'Favorites' sections, and a tree view of databases: New, information_schema, mysql, performance_schema, phpmyadmin, and test. The main area has several tabs: Databases, SQL, Status, User accounts, Export, Import, Settings, Replication, Variables, Channels, and More. The 'Settings' tab is active. It contains two main panels: 'General settings' (with 'Server connection charset' set to utf8mb4_unicode_ci) and 'Appearance settings' (language set to English, theme to pmahome). To the right, there are three boxes: 'Database server' (server: 127.0.0.1 via TCP/IP, server type: MariaDB, server connection: 3306, not being used, version: 10.4.32-MariaDB - mariadb.org binary distribution, protocol: 10, user: root@localhost, character set: UTF-8 Unicode (utf8mb4)), 'Web server' (Apache/2.4.48 (Win64) OpenSSL/3.1.1 PHP/8.2.12, database client: libmysql - mysqlind 8.2.12, PHP extension: mysql curl mbstring, PHP version: 8.2.12), and 'phpMyAdmin' (version: 6.2.1, latest stable: 6.2.3, documentation, official homepage).

Step 4: Plan your database schema

Before creating your database, consider what information you need to store and how it should be organized. Proper planning helps avoid structural problems later on.

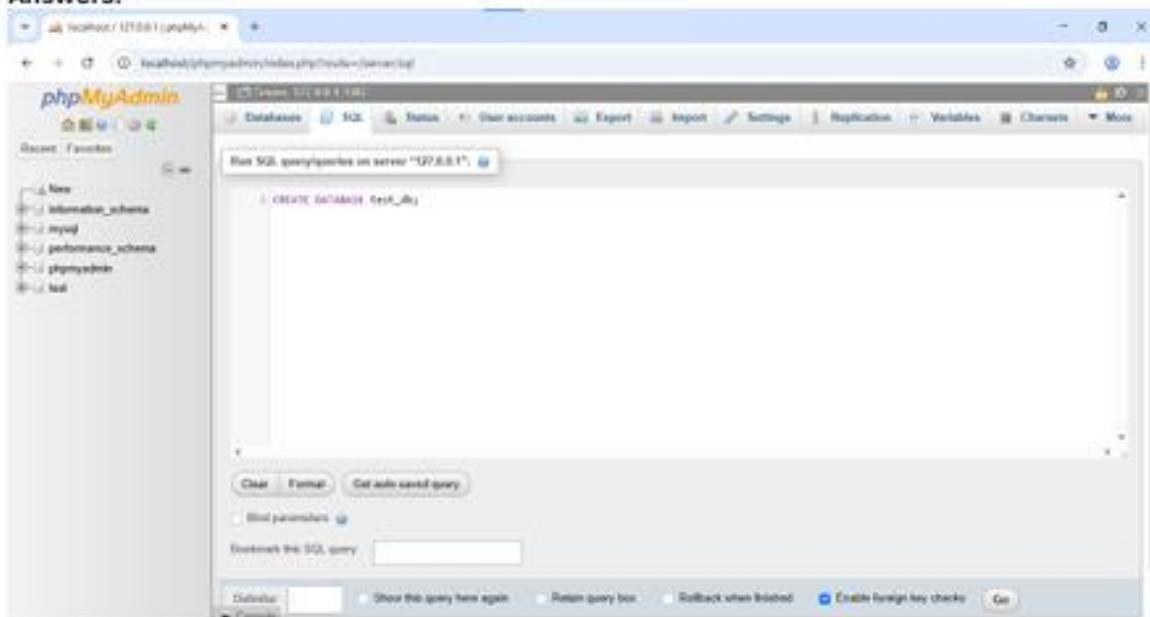
A simple planning process involves:

- **Identifying entities:** Figure out the main "things" your database needs to track, like Users, Products, or Orders.
- **Defining attributes:** Decide on the specific data points for each entity. For a Users table, this might include first_name, last_name, and email.
- **Specifying primary keys:** Choose a unique identifier for each table, such as a user ID. This is typically an auto-incrementing integer.
- **Establishing relationships:** Determine how your tables will connect to each other. For example, the Orders table might link to a Users table.

This time:

- I want you to explore or try to create a sample database as your activity for today without connecting it to php (or to your website)
- Name it on the desired table name.
- Screenshot all your works and output in this document and sent it through your github (filename: Activity 3 -10/30) this is a different filename from your Activity 2.

Answers:



The screenshot shows the phpMyAdmin interface for a MySQL database named 'test_db'. In the left sidebar, under the 'test_db' schema, there is a new table named 'users'.

The 'Structure' tab is selected. In the main area, the SQL query for creating the 'users' table is displayed:

```
CREATE TABLE `users` (
  `user_id` INT PRIMARY KEY AUTO_INCREMENT,
  `username` VARCHAR(30) NOT NULL UNIQUE,
  `password` VARCHAR(100) NOT NULL,
  `email` VARCHAR(100) NOT NULL UNIQUE
);
```

Below the query, there are several buttons: 'Clear', 'Format', 'Run auto-saved query', 'Edit parameters', 'Bookmark this SQL query', and 'Go'. At the bottom of the interface, there are tabs for 'Database', 'Show this query here again', 'Remove query box', 'Rollback when finished', and 'Enable foreign key checks'.

In the second part of the screenshot, the results of the query execution are shown. A green bar at the top indicates that MySQL returned an empty result set (0 rows). The query took 0.0007 seconds.

The SQL command is repeated:

```
CREATE TABLE `users` (
  `user_id` INT PRIMARY KEY AUTO_INCREMENT,
  `username` VARCHAR(30) NOT NULL UNIQUE,
  `password` VARCHAR(100) NOT NULL,
  `email` VARCHAR(100) NOT NULL UNIQUE
);
```

Below the command, it says '1 row(s) affected (0.0007 sec) Create table'.

The screenshot shows the phpMyAdmin interface for the 'test_db' database. The left sidebar lists databases: New, information_schema, mysql, performance_schema, phpmyadmin, test_db, and test. The 'test_db' database is selected. The main area displays the 'users' table with two rows of data:

| | user_id | username | password | email |
|---|---------|-----------------|----------|---------------------|
| 1 | 1 | AllexUser_12345 | 12345 | alexuser@gmail.com |
| 2 | 2 | Play202 | 87321 | play202@outlook.com |

Below the table, there are buttons for Check all, Edit selected, Edit, Copy, Delete, and Export.

The screenshot shows the phpMyAdmin interface for the 'test_db' database. The left sidebar lists databases: New, information_schema, mysql, performance_schema, phpmyadmin, test_db, and test. The 'test_db' database is selected. The main area shows the SQL query editor with the following code:

```
CREATE TABLE user_profile (
    profile_id INT PRIMARY KEY AUTO_INCREMENT,
    user_id INT NOT NULL,
    first_name VARCHAR(50),
    last_name VARCHAR(50),
    date_of_birth DATE,
    FOREIGN KEY (user_id) REFERENCES users(user_id)
        ON DELETE CASCADE
        ON UPDATE CASCADE
);
```

Below the code, there are buttons for Clear, Format, and Run this query now. There is also a checkbox for 'Run this query now again' and a checkbox for 'Enable foreign key checks'.

The screenshot shows the phpMyAdmin interface for a MySQL database. The left sidebar lists databases: New, information_schema, mysql, performance_schema, phpmyadmin, test_db, and users. The current database is 'test_db'. The 'user_profiles' table is selected. The top navigation bar includes 'Browse', 'Structure', 'SQL', 'Search', 'Insert', 'Export', 'Import', 'Privileges', 'Operations', 'Tracking', and 'Triggers'. A sub-menu for 'Operations' is open, showing options: 'Edit', 'Copy', 'Delete', 'Edit', 'Copy', 'Delete', and 'Export'. The main area displays the results of the query: 'SELECT * FROM `user_profiles`'. The results table has columns: profile_id, user_id, first_name, last_name, date_of_birth. Two rows are shown:

| profile_id | user_id | first_name | last_name | date_of_birth |
|------------|---------|------------|-----------|---------------|
| 1 | 1 | Sarah | Duluth | 1990-10-10 |
| 2 | 2 | Bangky | Marcus | 1990-10-10 |

Below the table are buttons for 'Print', 'Copy to clipboard', 'Export', 'Display user', and 'Create view'. At the bottom, there is a link 'Let every user access this database'.

ASSESSMENT TASK

WSTL31C

(WEB SYSTEMS AND TECHNOLOGIES)

EXERCISE

8

| | |
|-----------------------------------|-----------------------|
| Student Name / Group Name: | ELEUTERIO, EZEKIEL B. |
| Members (if Group): | |
| Section: | C334_IT |
| Instructor: | MS. GEN-GEN ROMA |

Activity Midterm Period: XAMPP and MySQL

The image displays two screenshots of a web-based application for capturing person data, likely developed using XAMPP and MySQL.

Screenshot 1: Capture New Person Data Form

This screenshot shows a form titled "Capture New Person Data". The form fields are:

- Full Name (*Required): An input field with a placeholder.
- Email Address (Optional): An input field with a placeholder.
- Validation Status (*Required): A dropdown menu with the option "- Select Status -".
- Validated By (Name/Identifier): An input field with a placeholder.

A green "Submit Person Data" button is located at the bottom right of the form.

Screenshot 2: Success! Confirmation Page

This screenshot shows a confirmation page after data submission. The message "Success!" is displayed in green. Below it, the text "New record created successfully." is shown. Further down, "Total Records Captured: 51" is displayed, followed by a link "Go back to the form".

| | | person_id | full_name | email | validation_status | capture_date | validated_by |
|--------------------------|---|-----------|---------------------|--------------------------------|-------------------|---------------------|--------------------|
| <input type="checkbox"/> | Edit Copy Delete | 1 | John Winters | NULL | Validated | 2025-11-19 01:02:55 | Sasha Rivers |
| <input type="checkbox"/> | Edit Copy Delete | 2 | Vanessa Truong | VanessaT@yahoo.com | Captured | 2025-11-19 01:04:49 | Paul Smith |
| <input type="checkbox"/> | Edit Copy Delete | 3 | Olivia Parker | oliviaparker@gmail.com | Captured | 2025-11-19 01:38:33 | NULL |
| <input type="checkbox"/> | Edit Copy Delete | 4 | Ivan Johnson | ivanj@gmail.com | Captured | 2025-11-19 01:39:03 | Olivia Parker |
| <input type="checkbox"/> | Edit Copy Delete | 5 | Emma Martinez | emmaan@gmail.com | Validated | 2025-11-19 01:39:53 | Isabella Anderson |
| <input type="checkbox"/> | Edit Copy Delete | 6 | Noah Smith | noah.smith@example.com | Validated | 2025-11-19 01:40:22 | Sophia Wilson |
| <input type="checkbox"/> | Edit Copy Delete | 7 | Ava Brown | ava.brown@example.com | Captured | 2025-11-19 01:40:51 | Liam Johnson |
| <input type="checkbox"/> | Edit Copy Delete | 8 | William Davis | NULL | Captured | 2025-11-19 01:41:09 | NULL |
| <input type="checkbox"/> | Edit Copy Delete | 9 | Sophie Wilson | NULL | Validated | 2025-11-19 01:41:25 | Benjamin Thomas |
| <input type="checkbox"/> | Edit Copy Delete | 10 | James Taylor | james.taylor@example.com | Captured | 2025-11-19 01:41:44 | NULL |
| <input type="checkbox"/> | Edit Copy Delete | 11 | Isabella Anderson | NULL | Validated | 2025-11-19 01:42:01 | Mia Jackson |
| <input type="checkbox"/> | Edit Copy Delete | 12 | Benjamin Thomas | Evan.Thomas@yahoo.com | Captured | 2025-11-19 01:42:26 | Evelyn Clark |
| <input type="checkbox"/> | Edit Copy Delete | 13 | Mia Jackson | NULL | Captured | 2025-11-19 01:42:53 | Ava Brown |
| <input type="checkbox"/> | Edit Copy Delete | 14 | Lucas White | lucas.white@example.com | Validated | 2025-11-19 01:43:14 | NULL |
| <input type="checkbox"/> | Console Copy Delete | 15 | Charlotte Harris | charlotte.harris@gmail.com | Validated | 2025-11-19 01:43:49 | Emma Martinez |
| <input type="checkbox"/> | Edit Copy Delete | 16 | Mason Martin | NULL | Validated | 2025-11-19 01:44:09 | Elijah Garcia |
| <input type="checkbox"/> | Edit Copy Delete | 17 | Harper Lewis | harper.lewis@example.com | Captured | 2025-11-19 01:44:25 | NULL |
| <input type="checkbox"/> | Edit Copy Delete | 18 | Alexander Robinson | alexander.robinson@example.com | Validated | 2025-11-19 01:44:57 | Amelia Thompson |
| <input type="checkbox"/> | Edit Copy Delete | 19 | Amelia Thompson | amelia.thompson@example.com | Captured | 2025-11-19 01:45:28 | Alexander Robinson |
| <input type="checkbox"/> | Edit Copy Delete | 20 | Evelyn Clark | EveClark@gmail.com | Captured | 2025-11-19 01:46:45 | NULL |
| <input type="checkbox"/> | Edit Copy Delete | 21 | Daniel Rodriguez | NULL | Captured | 2025-11-19 01:47:00 | NULL |
| <input type="checkbox"/> | Edit Copy Delete | 22 | Abigail Walker | NULL | Validated | 2025-11-19 01:47:17 | Daniel Rodriguez |
| <input type="checkbox"/> | Edit Copy Delete | 23 | Michael Hall | Mhall@yahoo.com | Captured | 2025-11-19 01:47:57 | James Taylor |
| <input type="checkbox"/> | Edit Copy Delete | 24 | Emily Allen | NULL | Captured | 2025-11-19 01:48:10 | NULL |
| <input type="checkbox"/> | Edit Copy Delete | 25 | Ethan Young | e.Young@gmail.com | Captured | 2025-11-19 01:48:33 | NULL |
| <input type="checkbox"/> | Edit Copy Delete | 26 | Elizabeth Hernandez | NULL | Captured | 2025-11-19 01:49:06 | Alex Johnson |
| <input type="checkbox"/> | Edit Copy Delete | 27 | Jacob King | Jking@example.com | Validated | 2025-11-19 01:49:28 | NULL |
| <input type="checkbox"/> | Edit Copy Delete | 28 | Sofia Wright | SoWrong@gmail.com | Validated | 2025-11-19 01:50:03 | NULL |

| | Browse | Structure | SQL | Search | Insert | Export | Import | Privileges | Operations | Tracking | Triggers |
|--------------------------|--------|-----------|-----------|--------|------------------|----------------------------|--------|-------------------|---------------------|---------------------|----------|
| | | person_id | full_name | email | | | | validation_status | capture_date | validated_by | |
| <input type="checkbox"/> | Edit | Copy | Delete | 29 | Logan Scott | NULL | | Captured | 2025-11-19 01:50:14 | NULL | |
| <input type="checkbox"/> | Edit | Copy | Delete | 30 | Avery Green | NULL | | Validated | 2025-11-19 01:50:24 | NULL | |
| <input type="checkbox"/> | Edit | Copy | Delete | 31 | Matthew Adams | NULL | | Validated | 2025-11-19 01:50:48 | Michael Hall | |
| <input type="checkbox"/> | Edit | Copy | Delete | 32 | Scarlett Baker | scarlett.baker@example.com | | Validated | 2025-11-19 01:51:14 | Elijah Young | |
| <input type="checkbox"/> | Edit | Copy | Delete | 33 | David Gonzales | david.gonzalez@example.com | | Captured | 2025-11-19 01:51:42 | Logan Scott | |
| <input type="checkbox"/> | Edit | Copy | Delete | 34 | Victoria Nelson | NULL | | Captured | 2025-11-19 01:52:04 | Elizabeth Hernandez | |
| <input type="checkbox"/> | Edit | Copy | Delete | 35 | Joseph Carter | NULL | | Captured | 2025-11-19 01:53:19 | NULL | |
| <input type="checkbox"/> | Edit | Copy | Delete | 36 | Grace Mitchell | grace.mitchell@yahoo.com | | Validated | 2025-11-19 01:53:38 | NULL | |
| <input type="checkbox"/> | Edit | Copy | Delete | 37 | Samuel Perez | NULL | | Captured | 2025-11-19 01:53:48 | NULL | |
| <input type="checkbox"/> | Edit | Copy | Delete | 38 | Lily Roberts | lily.roberts@example.com | | Validated | 2025-11-19 01:54:20 | Victoria Nelson | |
| <input type="checkbox"/> | Edit | Copy | Delete | 39 | Henry Turner | henry.turner@example.com | | Validated | 2025-11-19 01:54:53 | NULL | |
| <input type="checkbox"/> | Edit | Copy | Delete | 40 | Chloe Phillips | chloe.phillips@example.com | | Captured | 2025-11-19 01:55:24 | Samuel Perez | |
| <input type="checkbox"/> | Edit | Copy | Delete | 41 | Jackson Campbell | NULL | | Captured | 2025-11-19 01:55:41 | Grace Mitchell | |
| <input type="checkbox"/> | Edit | Copy | Delete | 42 | Aria Parker | NULL | | Validated | 2025-11-19 01:55:59 | Avery Green | |
| <input type="checkbox"/> | Edit | Copy | Delete | 43 | Sebastian Evans | NULL | | Captured | 2025-11-19 01:56:08 | NULL | |
| <input type="checkbox"/> | Edit | Copy | Delete | 44 | Zoey Edwards | NULL | | Validated | 2025-11-19 01:56:18 | NULL | |
| <input type="checkbox"/> | Edit | Copy | Delete | 45 | Aiden Collins | NULL | | Validated | 2025-11-19 01:56:31 | NULL | |
| <input type="checkbox"/> | Edit | Copy | Delete | 46 | Hannah Stewart | HannahS@gmail.com | | Validated | 2025-11-19 01:56:58 | NULL | |
| <input type="checkbox"/> | Edit | Copy | Delete | 47 | Owen Sanchez | NULL | | Validated | 2025-11-19 01:57:11 | Lily Roberts | |
| <input type="checkbox"/> | Edit | Copy | Delete | 48 | Natalie Morris | NULL | | Validated | 2025-11-19 01:57:28 | Aria Parker | |
| <input type="checkbox"/> | Edit | Copy | Delete | 49 | Caleb Rogers | caleb.rogers@yahoo.com | | Captured | 2025-11-19 01:58:10 | Jackson King | |
| <input type="checkbox"/> | Edit | Copy | Delete | 50 | Leah Reed | leah.reed@example.com | | Validated | 2025-11-19 01:58:31 | NULL | |

ASSESSMENT TASK

WSTL31C

(WEB SYSTEMS AND TECHNOLOGIES)

EXERCISE

9

| | |
|-----------------------------------|-----------------------|
| Student Name / Group Name: | ELEUTERIO, EZEKIEL B. |
| Members (if Group): | |
| Section: | C334_IT |
| Instructor: | MS. GEN-GEN ROMA |

Clothing Store

[Home](#) [About Us](#) [Products](#) [Gallery](#) [Contact Us](#)

Welcome to our store! Here, you can find the best outfits at the lowest prices.



Clothing Store

[Home](#) [About Us](#) [Products](#) [Gallery](#) [Contact Us](#)



Have questions? Contact Us!

Name

Email

Question

ASSESSMENT TASK

WSTL31C

(WEB SYSTEMS AND TECHNOLOGIES)

EXERCISE

10

| | |
|-----------------------------------|-----------------------|
| Student Name / Group Name: | ELEUTERIO, EZEKIEL B. |
| Members (if Group): | |
| Section: | C334_IT |
| Instructor: | MS. GEN-GEN ROMA |

Eleuterio, Ezekiel B.

2023 - I-00315

C334 - IT

LYCEUM OF THE PHILIPPINES UNIVERSITY
COLLEGE OF TECHNOLOGY

WSTL31C - Web Systems and Technologies - Gen-gen H. Roma
1st SEMESTER - Academic Year 2025-2026
MIDTERM EXAMINATION
(100 - Items)

(83%)
(72/100)

GENERAL INSTRUCTIONS:

1. Follow all instructions carefully. Failure to do so will warrant a substantial deduction from your final score.
2. You are not allowed to leave your seat unless you are through with the exam. If you have any questions, just raise your hand and the Professor will attend to you.
3. Do not write anything on the questionnaire.
4. Talking or looking at your seatmate is automatically considered as cheating which is subject to a very serious sanctions as stipulated in the student handbook.

Test: Multiple Choice: Identify the choice that best completes the statement or answers the question. Encircle the letter that represents your answer. Avoid erasures any form of erasures means incorrect.

1. Inside which HTML element do we put the JavaScript?
a) <j> b) <script> c) <javascript> d) <scripting>
2. What is the correct JavaScript syntax to write "Hello World"?
a) document.write("Hello World"); b) response.write("Hello World");
c) "Hello World" d) alert("Hello World");
3. Where is the correct place to insert a JavaScript?
a) The <head> section b) The <body> section
c) Both the <head> section and the <body> section are correct d) The <footer> section
4. How do you create a function in JavaScript?
a) function myFunction() b) function:myFunction()
c) function = myFunction() d) func myFunction()
5. How do you call a function named "myFunction"?
a) call myFunction() b) myFunction()
c) call function myFunction() d) execute myFunction()
6. How to write an IF statement in JavaScript?
a) if i = 5 then b) if (i == 5) c) if i == 5 d) if i = 5
7. How to write an IF statement for executing some code if "i" is NOT equal to 5?
a) if (i < 5) b) if i != 5 c) if (i != 5) d) if (i = 5)
8. How does a FOR loop start?
a) for (i = 0; i <= 5) b) for (i = 0; i <= 5; i++)
c) for i = 1 to 5 d) for (i <= 5; i++)
9. Which of the following is the correct way to start a PHP script?
a) <script> b) <?php c) <% d) <!--
10. Which ES6 feature is used to define a class with methods and a constructor? (ES6, also known as ECMAScript 2015)
a) function b) class c) object d) struct
11. What is the output of echo "Hello" . " " . "World!";?
a) Hello World! b) HelloWorld! c) Hello+World! d) Error
12. Which of the following is NOT a valid keyword in SQL?
a) SELECT b) DELETE c) WHERE d) INCLUDE
13. Which of the following is a widely used server-side scripting language?
a) HTML b) CSS c) PHP d) JavaScript (client-side only)
14. What is a primary characteristic of server-side scripting?
a) The source code is always visible to the client's browser.
b) It primarily handles client-side user interface interactions.
c) It processes requests and generates dynamic content on the web server.
d) It is primarily used for styling web pages.
15. Which of the following is an advantage of using server-side scripting?
a) Increased load on the client's browser.
b) Direct access to client-side data.
c) Ability to interact with databases and external services.
d) No browser compatibility issues.
16. In PHP, which symbol is used to declare a variable?
a) # b) \$ c) @ d) %
17. Which of these is NOT a server-side scripting language?
a) Python b) Ruby c) Perl d) HTML

WSTL31C

Page 1 of 4

Validated by:

Dr. Earl Marquez Alina - Chairperson

ASSESSMENT TASK

WSTL31C

(WEB SYSTEMS AND TECHNOLOGIES)

EXERCISE

11

| | |
|-----------------------------------|-----------------------|
| Student Name / Group Name: | ELEUTERIO, EZEKIEL B. |
| Members (if Group): | |
| Section: | C334_IT |
| Instructor: | MS. GEN-GEN ROMA |

TRAVEL BLOG

Home Blog About Contact

Contact Me

Your Name

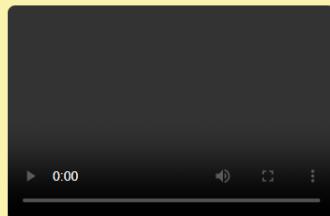
Enter your name

Your Email

Enter your email

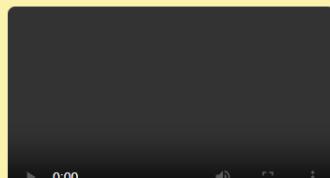
Message

Write your message here...



"The Underwater Kingdom of Marelia"

Dive into Marelia, a kingdom beneath turquoise waves where cities of coral and pearl rise from the ocean floor. Swim alongside merfolk and explore underwater gardens glowing with bioluminescent life.



"Cloud Cities of Aetheria"

Take flight to Aetheria, where cities float among the clouds on giant platforms held aloft by ancient technology. Explore sky markets, meet airship pilots, and gaze upon endless horizons that blend sea, sky, and dreams.

ASSESSMENT TASK

WSTL31C

(WEB SYSTEMS AND TECHNOLOGIES)

EXERCISE

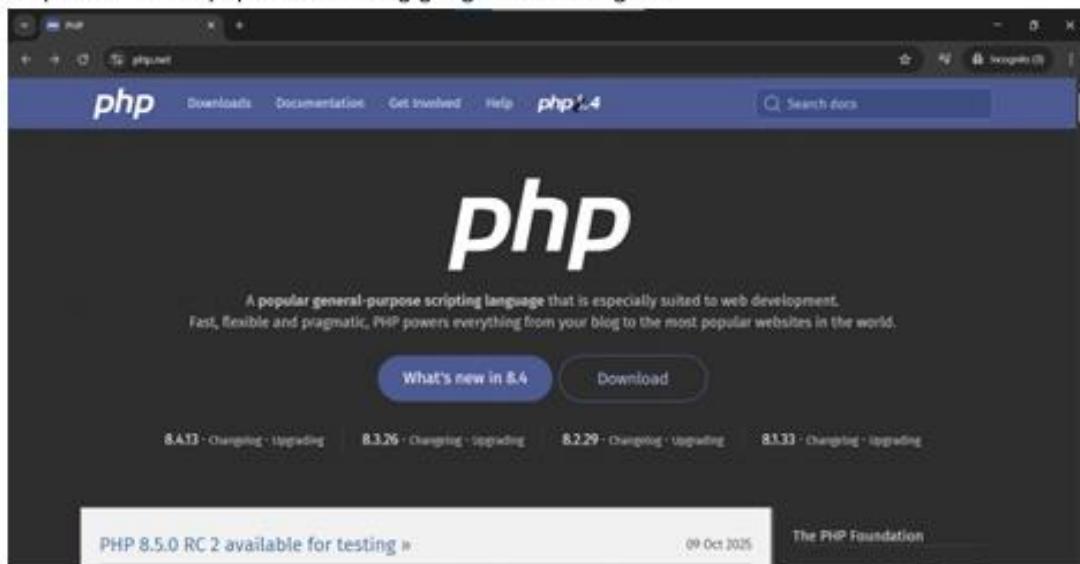
12

| | |
|-----------------------------------|-----------------------|
| Student Name / Group Name: | ELEUTERIO, EZEKIEL B. |
| Members (if Group): | |
| Section: | C334_IT |
| Instructor: | MS. GEN-GEN ROMA |

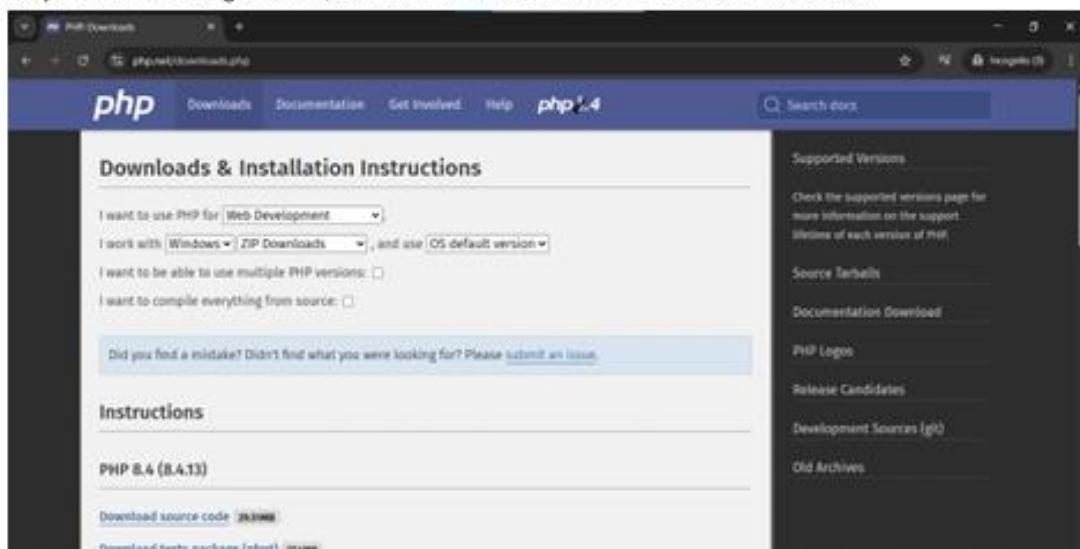
Midterm Activity: Downloading php, mysql, andxampp

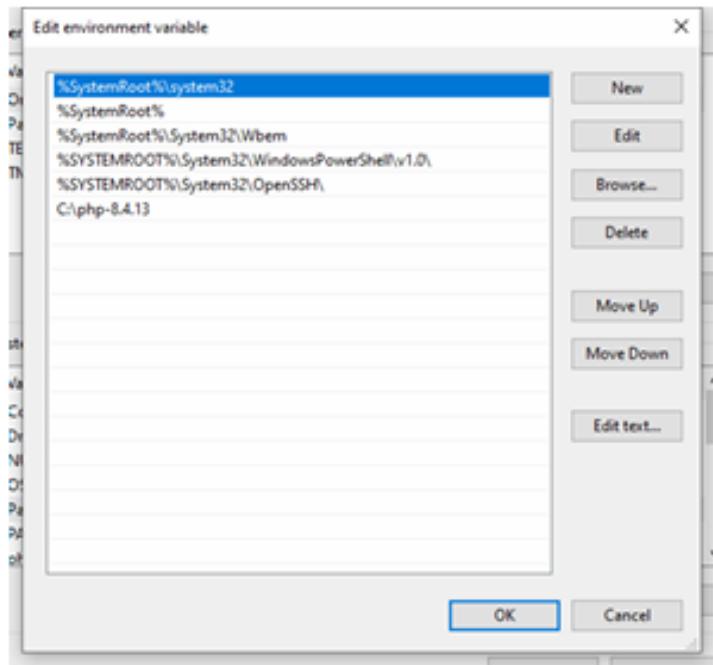
Steps of how I downloaded php:

Step 1: Searched php website using google search engine



Step 2: After clicking the link, I clicked on the download button on the website





Step 7: Verified the successful installation through command prompt. This also showed the version of the php installed.

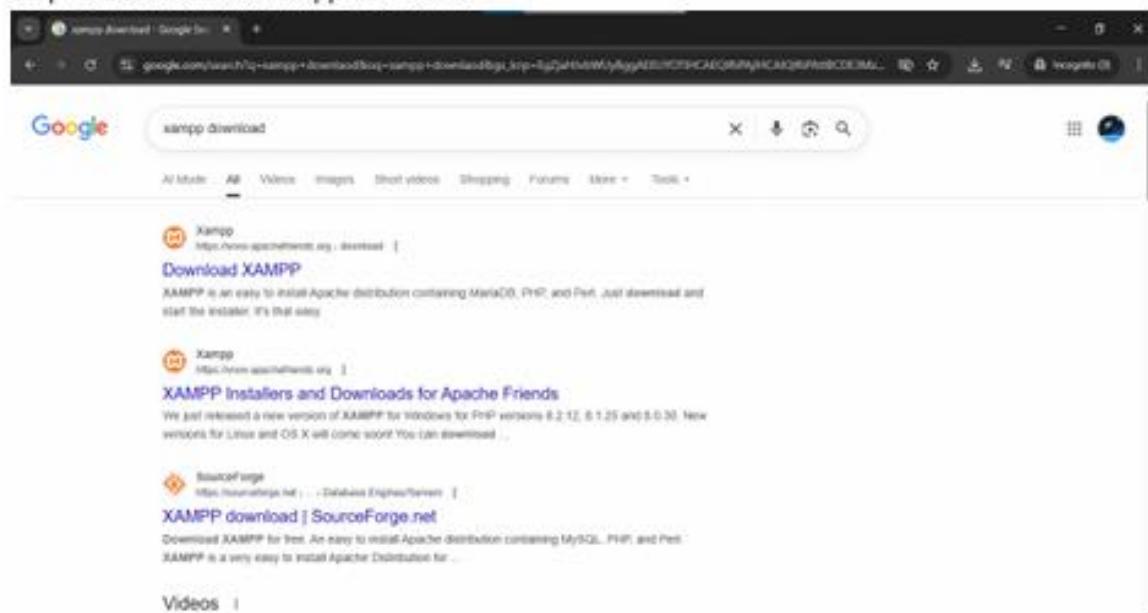
```
Microsoft Windows [Version 10.0.19045.6332]
(c) Microsoft Corporation. All Rights Reserved.

C:\Users\Marlon Eleuterio>php --version
PHP 8.4.13 (cli) (built: Sep 23 2025 14:36:54) (ZTS Visual C++ 2022 x64)
Copyright (c) The PHP Group
Zend Engine v4.4.13, Copyright (c) Zend Technologies

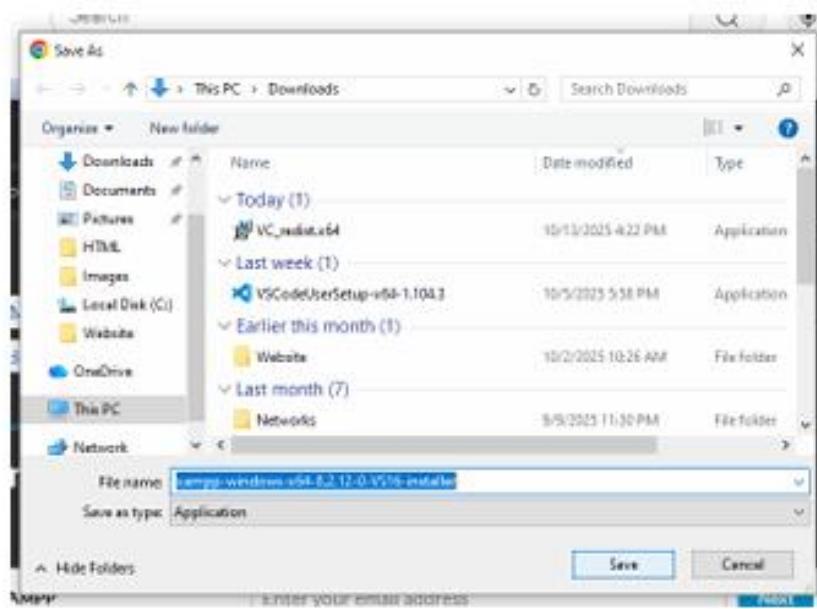
C:\Users\Marlon Eleuterio>
```

How I downloaded xampp:

Step 1: Searched for xampp download



Step 2: Downloaded the application and began the installation process



ASSESSMENT TASK

WSTL31C

(WEB SYSTEMS AND TECHNOLOGIES)

EXERCISE

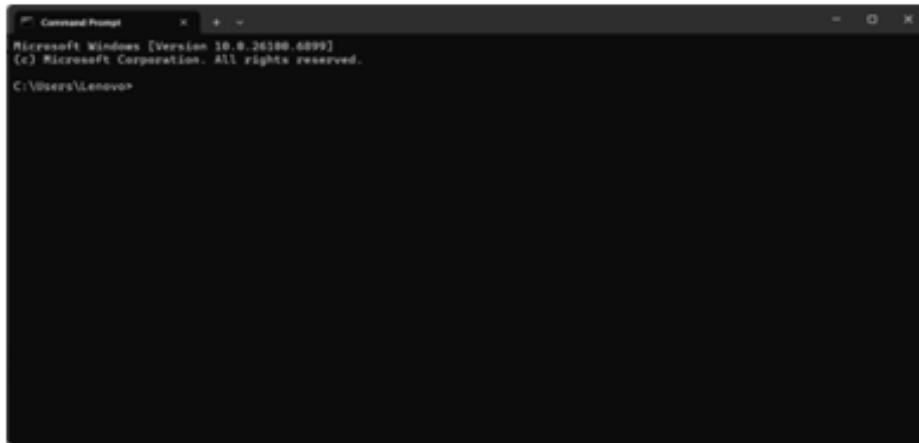
13

| | |
|-----------------------------------|-----------------------|
| Student Name / Group Name: | ELEUTERIO, EZEKIEL B. |
| Members (if Group): | |
| Section: | C334_IT |
| Instructor: | MS. GEN-GEN ROMA |

Laboratory Activity
Web Systems and Technology
Midterm

Procedure:

- Open your individual unit and check your current PHP version using the command prompt see sample image below : Write the command in the black provided



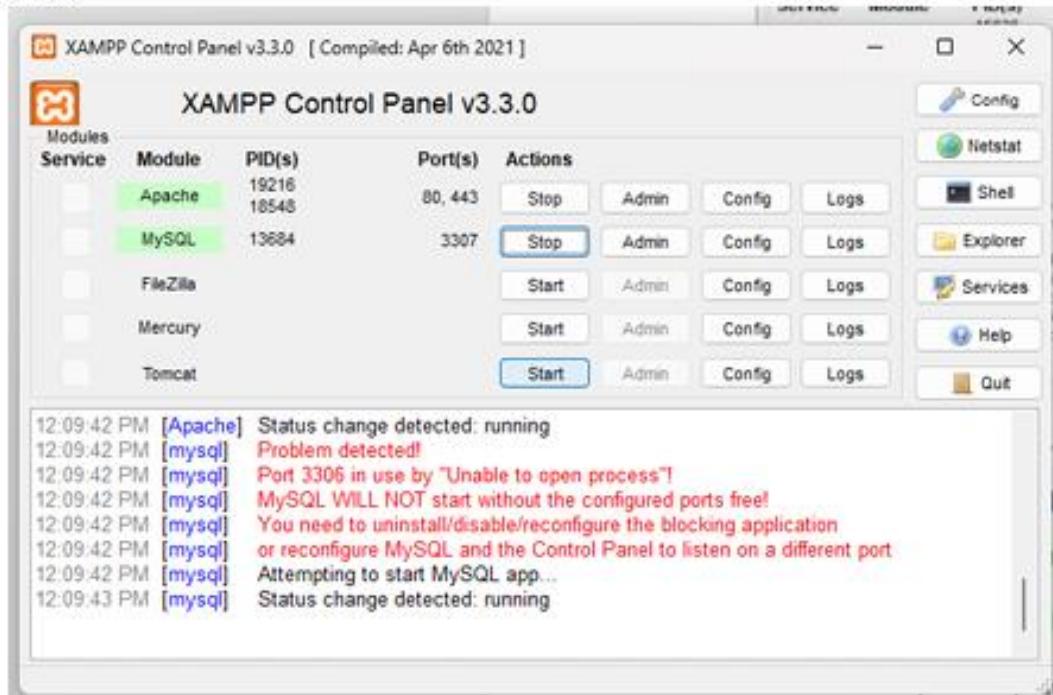
Answer:

```
Microsoft Windows [Version 10.0.26290.6991]
(c) Microsoft Corporation. All rights reserved.

C:\Users\2823-1-00315>php -v
PHP 8.2.4 (cli) (built: Mar 14 2023 17:54:28) (ZTS Visual C++ 2019 x64)
Copyright (c) The PHP Group
Zend Engine v4.2.4, Copyright (c) Zend Technologies

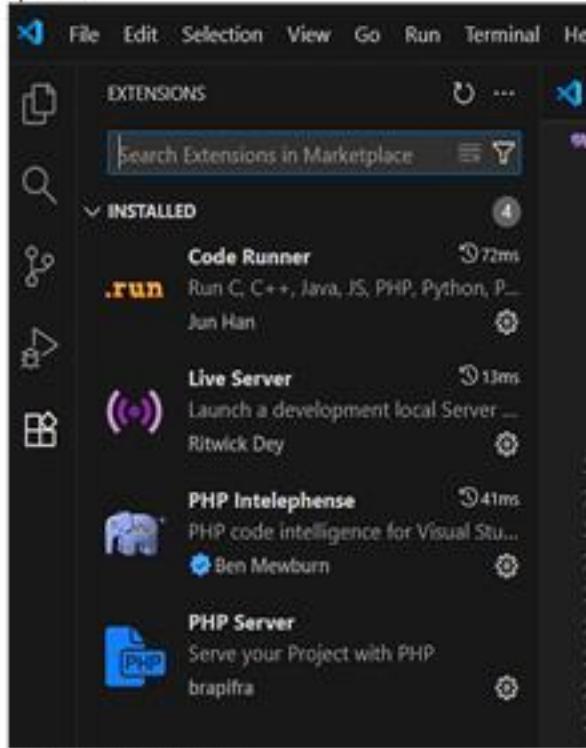
C:\Users\2823-1-00315>
```

Answer:



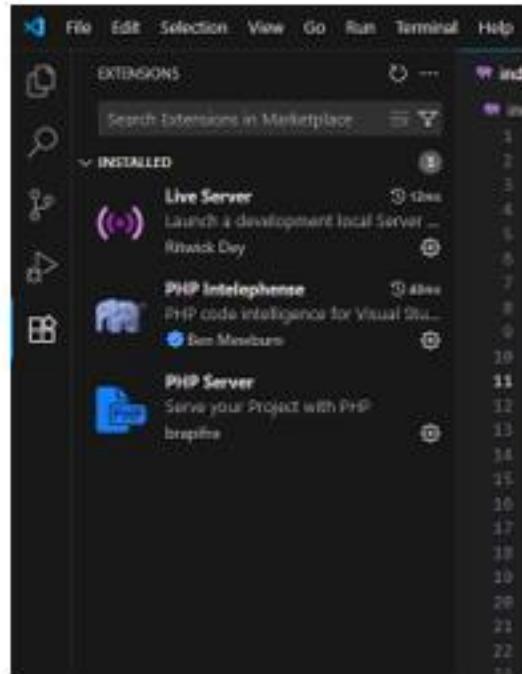
- Open your preferred web browser and type `http://localhost` into the address bar and press **Enter**.
- If XAMPP is working correctly, you will see the XAMPP welcome page, which confirms the Apache web server is running.

- Live server
- PHP Intelephense



- Once installed start your first PHP code

Answer:



ASSESSMENT TASK

WSTL31C

(WEB SYSTEMS AND TECHNOLOGIES)

EXERCISE

14

| | |
|-----------------------------------|-----------------------|
| Student Name / Group Name: | ELEUTERIO, EZEKIEL B. |
| Members (if Group): | |
| Section: | C334_IT |
| Instructor: | MS. GEN-GEN ROMA |



Sprout Haven

by Eleuterio, Ezekiel

Systems Architecture

- User Browser - runs HTML/CSS frontend for layout and styling.
- Web Server - executes PHP backend logic, handles requests, and communicates with the database.
- Database Server - stores data in MySQL (products, users, orders).

Systems Architecture

Pages needed:

- Home
- Products
- About
- Contact
- Account
- Checkout/Cart

Database Design

erDiagram

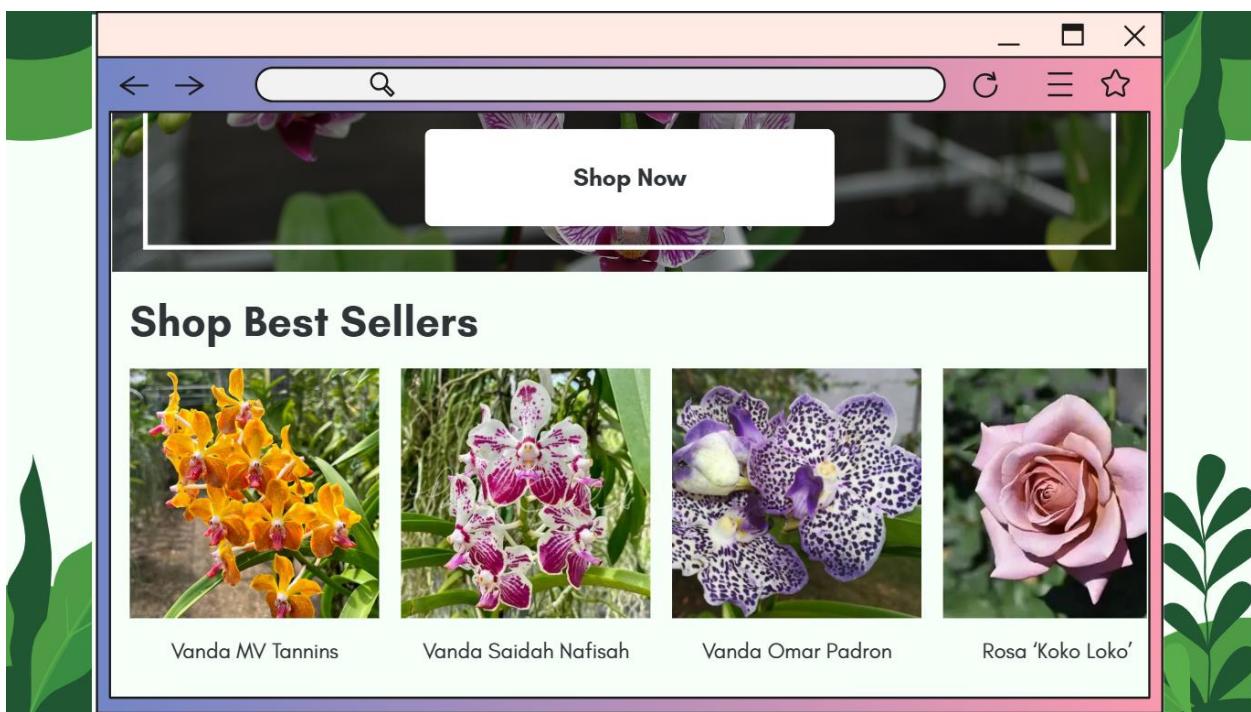
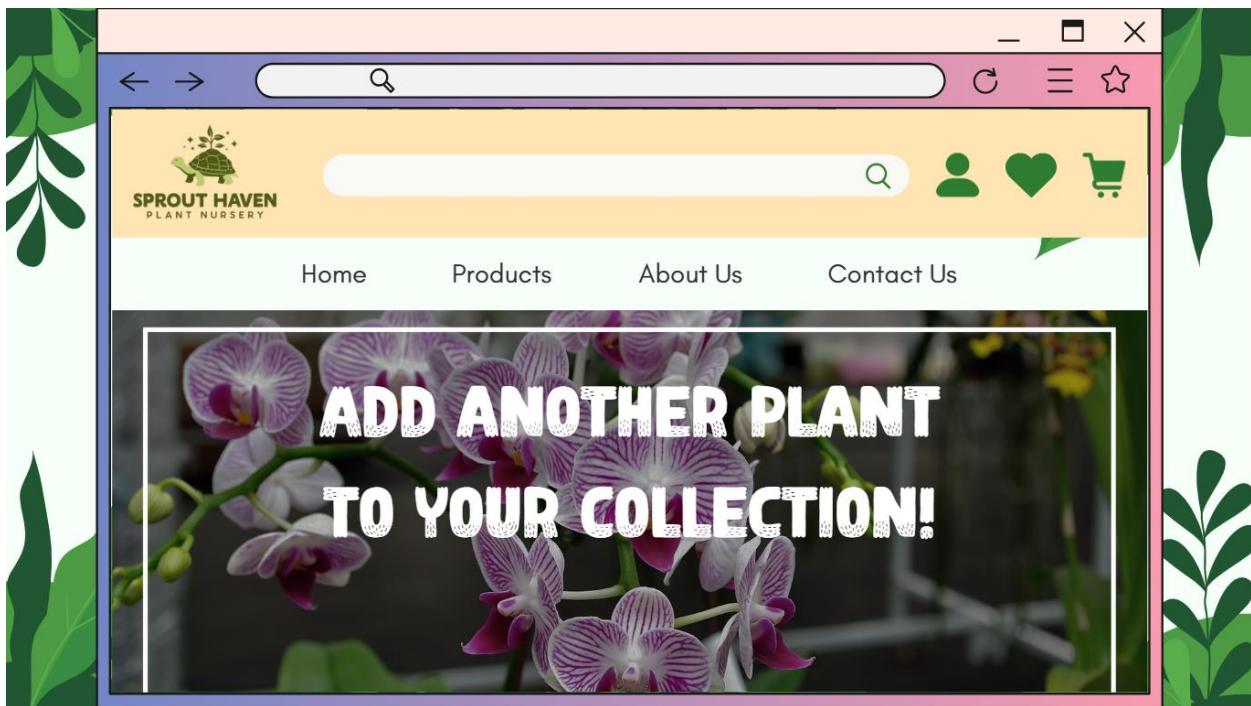
 USERS ||--o{ ORDERS : places
 USERS ||--o{ FORMS : submits

 USERS {
 int user_id PK
 string username
 string email
 string password_hash
 datetime created_at
 }

 PRODUCTS {
 int product_id PK
 string name
 string description
 float price
 int stock_quantity
 }

 ORDERS {
 int order_id PK
 int user_id FK
 string products_json
 float total_amount
 string status
 datetime created_at
 }

 FORMS {
 int form_id PK
 int user_id FK
 string questions_json
 string answers_json
 datetime submitted_at
 }



Rosa 'Fragrant Cloud'

★★★★★ (23)

\$ 850

Shipping Calculated at Checkout.

Quantity: 1

Add +

Description Product Details

Got Questions? Contact Us!

Name:

Email:

Question:

Address: 2099 Brevard Rd., Arden, NC 28704
Tel No.: [855-440-2929](tel:855-440-2929)
Email: service@sprouthaven.com



Thank You

ASSESSMENT TASK

WSTL31C

(WEB SYSTEMS AND TECHNOLOGIES)

EXERCISE

15

| | |
|-----------------------------------|-----------------------|
| Student Name / Group Name: | ELEUTERIO, EZEKIEL B. |
| Members (if Group): | |
| Section: | C334_IT |
| Instructor: | MS. GEN-GEN ROMA |



Login Register

[Forgot Password](#)



SPROUT HAVEN
PLANT NURSERY

Find the plant
you're looking for!

Looking for the perfect bloom? Discover our beautiful collection of dahlias, roses, and orchids—each carefully selected for their color, quality, and charm.

Explore now →

Cart

Profile



Featured Products



Vanda MV Tannins
★★★★★
₱750.00



Vanda Saidah Nafisah
★★★★☆
₱750.00



Vanda Omar Padron
★★★★★
₱750.00



Dahlia Keltie Cherry
★★★★★
₱900.00

All Products



Rosa Peach Swirl
★★★★★
₱400.00



Cymbidium Terrapin Flyer
★★★★☆
₱550.00



Phalaenopsis Sweet Memory
★★★★★
₱600.00



Phalaenopsis Bronze Buddha
★★★★★
₱600.00



SPROUT MAVEN
PLANT NURSERY

Dahlia Bloomquist Jean

★★★★★☆

₱850.00

Bright orange dahlia variety with soft, layered petals, perfect for gardens or floral displays.

Quantity:

Add to Cart →





Home Products About Contact Account 

Shopping Cart

| Product | Price | Quantity | Subtotal |
|--|---------|--------------------------------|----------|
|  Dahlia Bloomquist Jean Remove | ₱850.00 | <input type="text" value="1"/> | ₱850.00 |

Grand Total: ₱850.00

[Update Cart](#)

[Proceed to Checkout](#)

Checkout

Billing Information

| |
|------------------|
| Full Name |
| Email Address |
| Shipping Address |
| Phone Number |

Your Order

| Product | Price | Quantity | Subtotal |
|------------------------|---------|----------|----------|
| Dahlia Bloomquist Jean | ₱850.00 | 1 | ₱850.00 |

Grand Total: ₱850.00

[Place Order](#)