CISC3003: Web Programming

澳門大學

UNIVERSIDADE DE MACAU

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Project Title

The Pet Home Website

Submitted by Team 01:

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Section 01: Abstract

In this semester, as part of our CISC3003 Web Programming course, we have delved into the intricacies of four cornerstone web technologies: HTML, CSS, JavaScript, and PHP. The culmination of our studies is demonstrated through this project, where we've applied our knowledge to create a comprehensive online platform, PetHome.

PetHome is a social community website tailored to the interests of pet owners and enthusiasts. It serves as a digital space where users can register accounts, share delightful moments with their pets, and engage in a variety of interactive activities. The platform facilitates community discussions on pet care and offers an informative blog filled with tips and stories from fellow pet lovers. Additionally, PetHome includes a dedicated store page, providing a curated selection of pet products.

The construction of the website is rooted in HTML and CSS for structuring and styling, while JavaScript has been integrated to enhance interactivity and improve user engagement. The backend architecture utilizes PHP in conjunction with a MySQL database, which securely manages user data and ensures seamless site functionality. Designed with responsiveness in mind, PetHome guarantees an exceptional user experience across multiple devices.

This project not only validates our learning outcomes but also exhibits a comprehensive set of technical competencies, encompassing both client-side and server-side development, database integration, and responsive web design.

Section 02: Project List of Services

1. Login/Registration service:
   PetHome offers a streamlined account registration process enabling users to join our pet-loving community. Once registered, users can log in to participate in discussions, post messages, and engage with other community activities.

2. Forum service:
   Our community forum is the heart of PetHome, where users can share delightful anecdotes, post pictures of their pets, and engage in meaningful conversations with fellow enthusiasts.

3. Blog service:
   Pet owners can read and contribute to a wealth of articles in the blog section, sharing their knowledge and stories, as well as participating in themed blogging events and challenges to highlight their pets' adventures.

4. Store service:
   The store page allows users to browse through a carefully curated selection of pet products. From food to toys, all items reflect the latest trends and the highest standards of pet care.

5. User List service:
   Users can find like-minded friends and chat with them on the user list page.

6. Personal Homepage service:
   Each member receives a personal dashboard to curate their own posts, track their activities, and personalize their PetHome experience with photos and updates about their pets.

7. Personal Profile service:
   Each user has their own profile page, which allows them to fill in their personal information so that others can quickly understand themselves.

8. Database service:
   The backend database can record user settings, messages, and photos so that users can easily manage their activities and content on the website.

Section 03: Project List of Tasks

Sign up page	DC027353 Cao YuTing
Log in page	
Profile page	
- PHP for backend connection - HTML and CSS for page design - PHP and JS for warning alert - Automatically mailing verification	
Home page	DC025027 Ao ChiLam
- HTML and CSS for page design - Overall style design	
Forum page	DC027353 Cao YuTing, DC027857 Wang XinYu
Post page	
- HTML and CSS for page design - PHP for backend connection - PHP and JS for warning alert - OS operation for upload file	
Blog page	DC027353 Cao YuTing
- HTML and CSS for page design	
Store page	DC025027 Ao ChiLam
Store Page (Cat) Store Page (Dog) Store Page (Pet Supplier)	
Cart page	
- HTML and CSS for page design - PHP for backend connection - PHP and JS for warning alert - Complete calculating the subtotal/total price function	
Reset page	DC027857

- PHP for backend connection - HTML and CSS for page design - PHP and JS for warning alert - Automatically mailing verification	Wang XinYu
Header & footer	DC025027 Ao ChiLam, DC027353 Cao YuTing, DC027857 Wang XinYu
Navigation Bar	
Images	
Textual Information	
PHPMAILER set up	
Verify email	
Database service	DC025027 Ao ChiLam, DC027353 Cao YuTing, DC027857 Wang XinYu
- Database creation - Database table creation - Database record insert - Database management - Backend for login/registration - Backend for user, post, product information - Backend for verification	

PPT - Cover page	DC126114 LEI CHAK FONG DC125943 WONG CHI CHON
- Project title - Team number - Team member (Student ID + Student name)	
PPT - Content	DC126114 LEI CHAK FONG DC125943 WONG CHI CHON
PPT - Introduction	DC126114 LEI CHAK FONG DC125943 WONG CHI CHON
- Pet supplies e-commerce website - Clear categories and search capabilities - Top brands and manufacturers	
PPT - Our goal	DC126114 LEI CHAK FONG DC125943 WONG CHI CHON
PPT - The main services	DC126114

- Login\Register - Community Forums - Blog - Store page	LEI CHAK FONG DC125943 WONG CHI CHON
PPT - User workflow	DC126114 LEI CHAK FONG DC125943 WONG CHI CHON
- Shopping - Engagement - Knowledge expansion	
PPT - Our target user	DC126114 LEI CHAK FONG DC125943 WONG CHI CHON
- Novice Pet Owners - Experienced Pet Guardians - Urban Pet Lovers - Community Seekers - Conscientious Shoppers	
PPT - Technical vision	DC126114 LEI CHAK FONG DC125943 WONG CHI CHON
- HTML and CSS - PHP - MYSQL - PHPMAILER	
PPT - Web page introduction	DC126114 LEI CHAK FONG DC125943 WONG CHI CHON
- Sign up page - Login page - Reset page - Verify email - Home page - Forum & Post page - Blog page - Store page - Profile page - Shop page - Product & Cart page	
Video editing	DC126114 LEI CHAK FONG

Proposal- Research and Background Study	DC026157 WONG KAI YUAN DC328783 PAULO
- Gather data on pet supply e-commerce trends.	

- Analyze competitor platforms and identify unique aspects for PetHome.	
Proposal Writing	DC026157 WONG KAI YUAN DC328783 PAULO
Report	DC026157 WONG KAI YUAN DC328783 PAULO
- Organize chapters and sections according to the project's scope and objectives. - Develop a consistent format and style guide for the entire report.	
Report – More detailed background study	DC026157 WONG KAI YUAN DC328783 PAULO
Report - The main services	DC026157 WONG KAI YUAN DC328783 PAULO
- Login\Register - Community Forums - Blog - Store page	
Report - Content Creation	DC026157 WONG KAI YUAN DC328783 PAULO
- Write detailed analyses on PetHome's market position and technical implementation. - Include user interaction models and feedback mechanisms.	
Report - Review and Editing	DC026157 WONG KAI YUAN DC328783 PAULO
- Ensure all information is accurate and well-presented. - Revise drafts based on feedback from peers and advisors.	
Report - Finalization	DC026157 WONG KAI YUAN DC328783 PAULO
- Compile all sections, ensure formatting is uniform. - Prepare the final document for submission.	
Technical Documentation	DC026157

- Document the software architecture and framework. - Detail the development process including code snippets and database schema. - Outline the security measures implemented in the user registration and login processes.	WONG KAI YUAN DC328783 PAULO
Presentation Preparation	DC026157 WONG KAI YUAN DC328783 PAULO

Section 04: Project Accomplishments & Incomplete

1. Login/Registration service	Complete
a) PHP & JS for backend connection b) HTML and CSS for page design c) PHP and JS for warning alert d) Automatiaclly mailing verification	
2. Forum service	Complete
a) Established PHP backend connections for dynamic forum post updates and interactions. b) Developed the forum page layout with HTML and CSS for a user-friendly interface.	
3. Blog service	Complete
a) Structuring HTML and CSS for the blog page design. b) Planning the blog content management system using PHP.	
4. Store service	Complete
5. User List service	Complete
6. Personal Dashboard service	Complete
a) Php for backend connection b) JS and php for showing the information of post	
7. Personal Profile service	Complete

8. Database service	Complete
a) Backend for login/registration b) Backend for post information c) Backend for verification d) Database creation e) Database table creation f) Database record insert g) Database management	

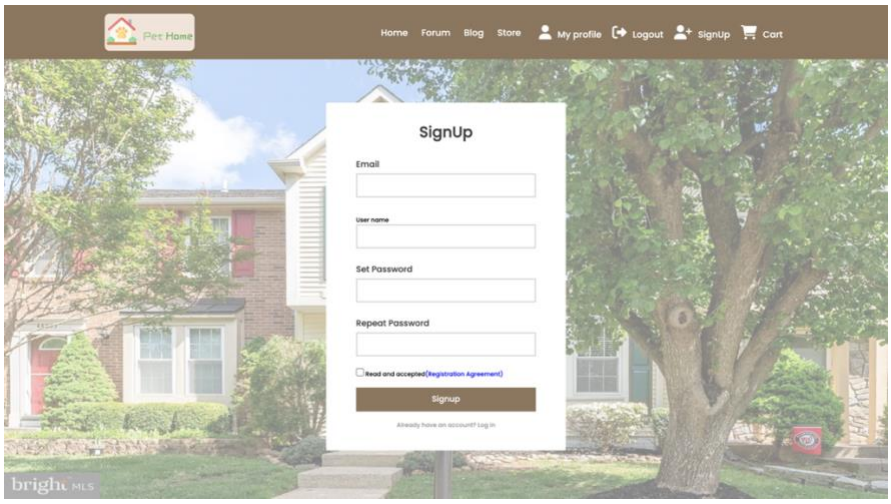
Project Incomplete

Payment	Incomplete
Recommendation algorithm	Legal issues Protocal issue Capital limitation
Social media account login	

Section 05: Project Walkthrough and showcase

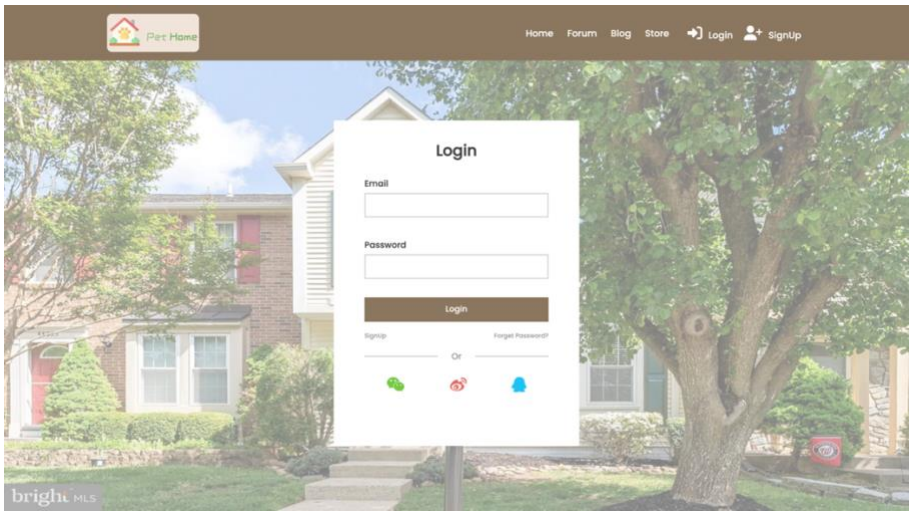
1) Sign Up Page

- Input boxes for sign up information collection.
- Button to submit information (can only success submit if input all required information, and repeat password same with set password, and click agree checkbox)
- Submitted information stored in table ‘user’
- After success submission, a verify email is sent to the input email box, account is activated after verify.
- Link to login page.



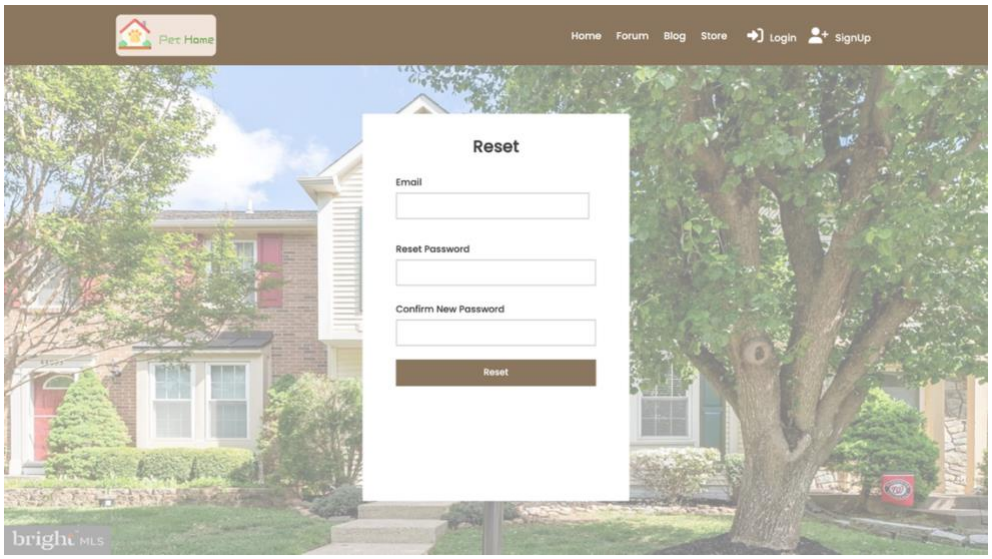
2) Login Page

- Input boxed for log in information.
- Button to submit information (can only success if all input boxes have content, email is registered, password is correct - same with recorded password in database)
- If input email is not registered, go to sign up page.
- Links to sign up page and reset page.



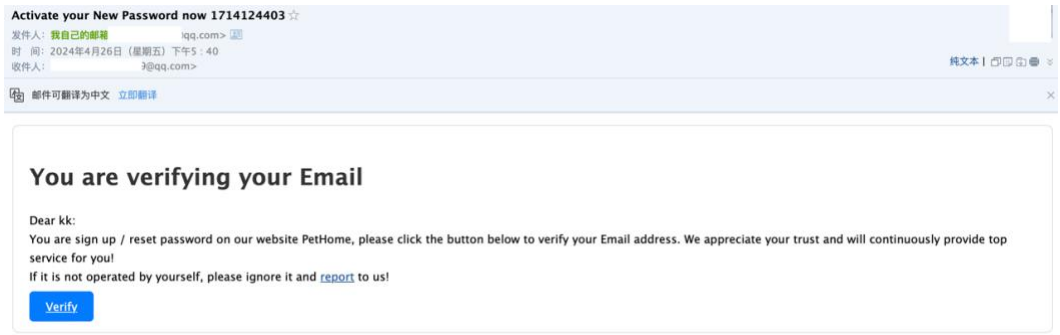
3) Reset Page

- Input boxed for reset password information.
- Button to submit information (can only success if all input boxes have content and reset password same with confirm password)
- After successful submission, a verify email is sent to the input email box, new password is activated after verify.



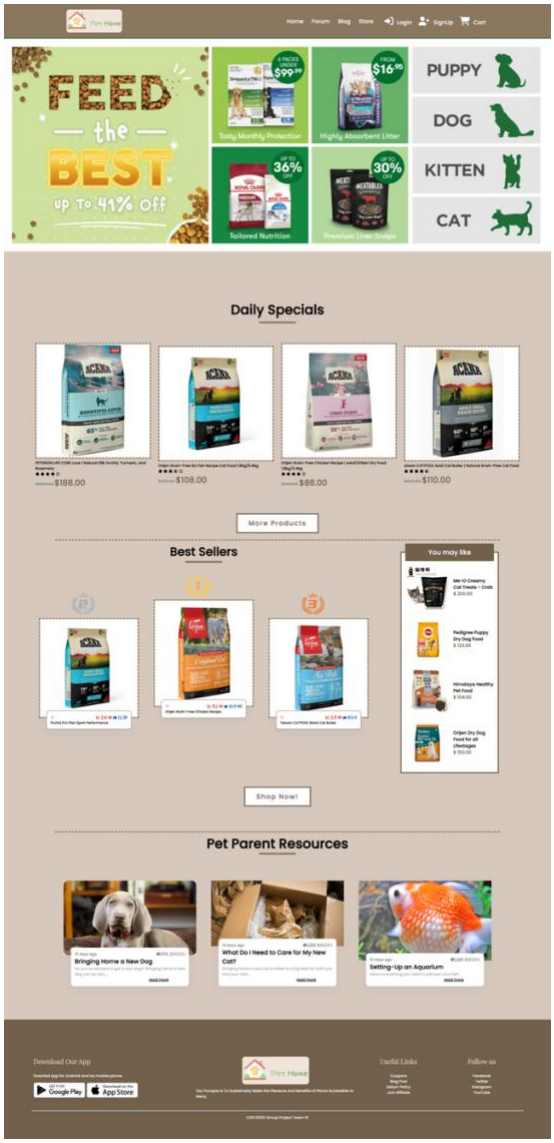
4) Verify Email

- Automatically send to mailbox.
- Include the register name of user.
- Button to verify sign up / reset password, link back to log in page.
- Not actually able to report error.



5) Home Page

- Display discount information, daily special, best seller and blog recommendation

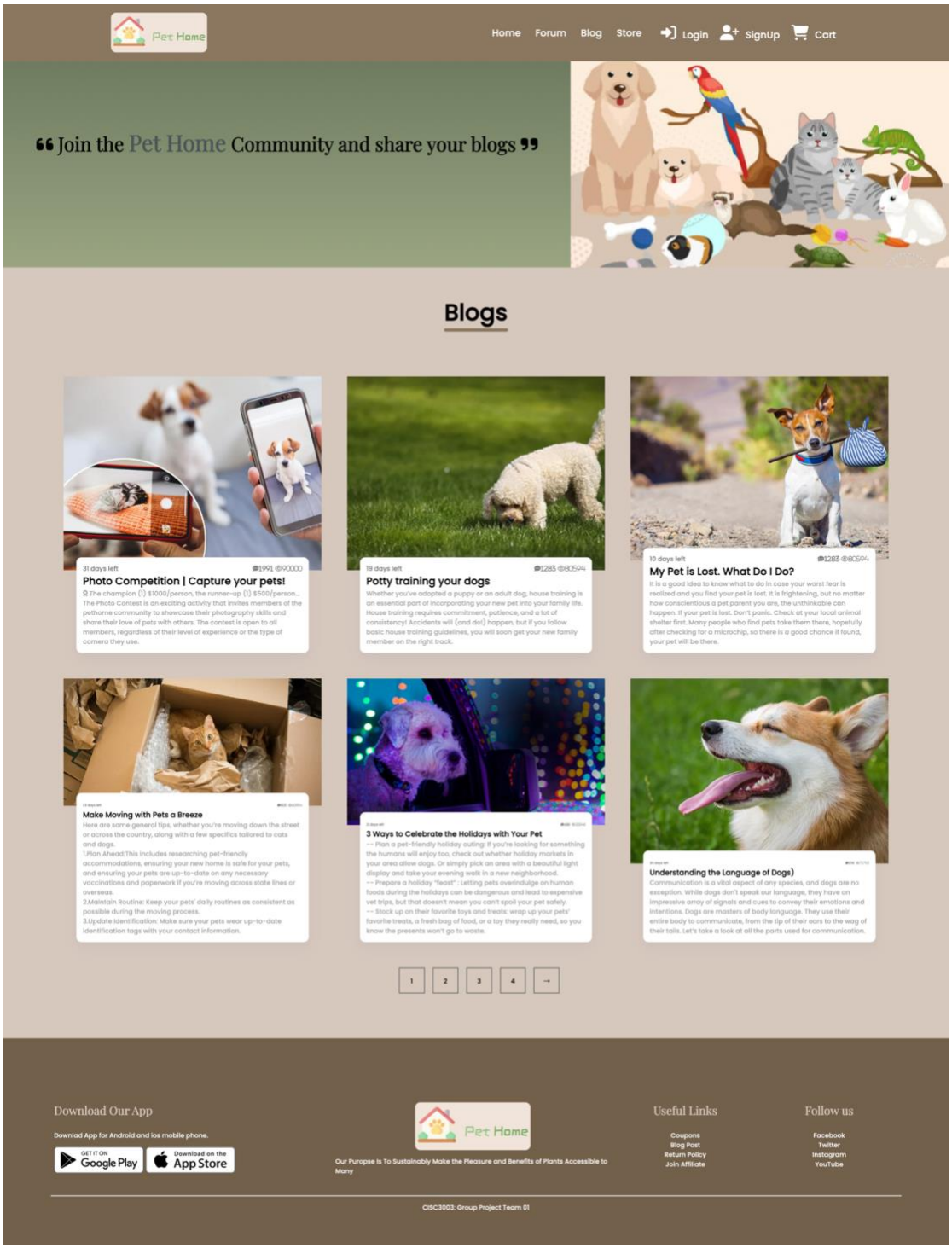


6) Forum Page

- Blog list of all blogs
- Button to post a post (when logged in, otherwise link to login page)

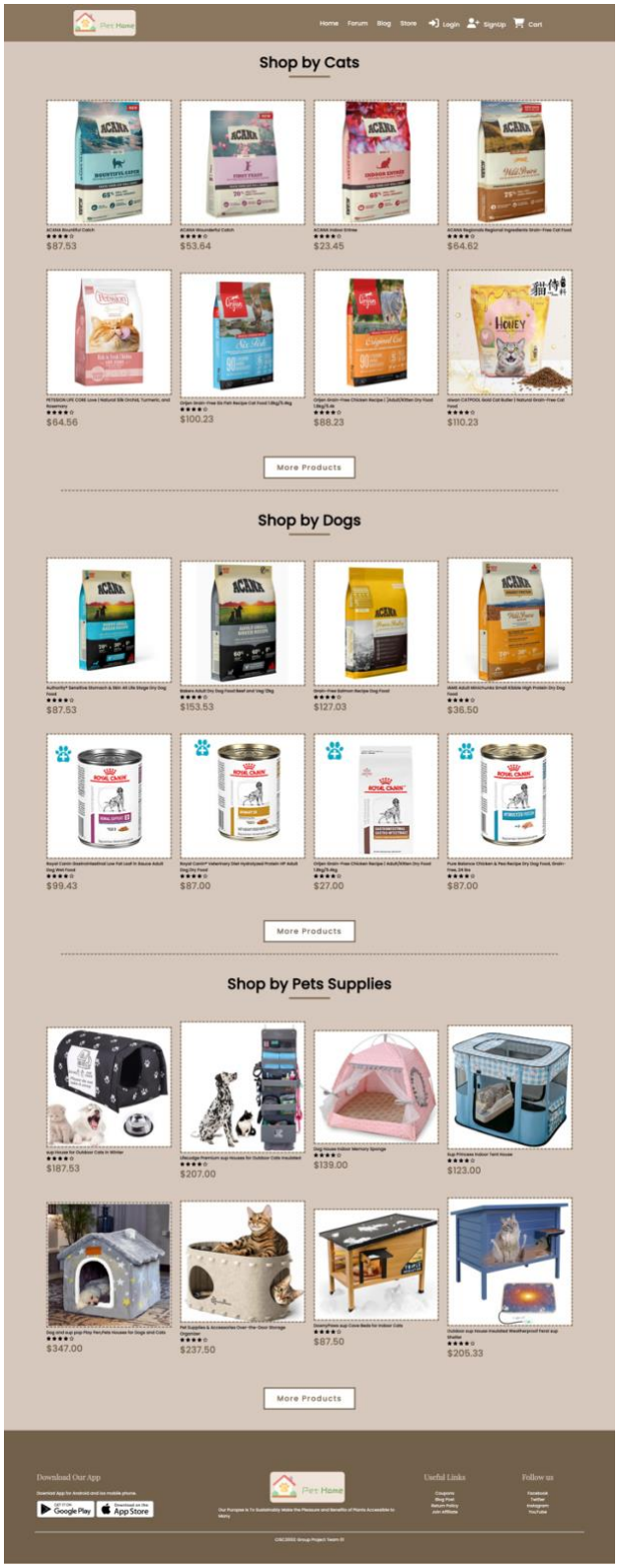
7) Blog Page

- Blog display



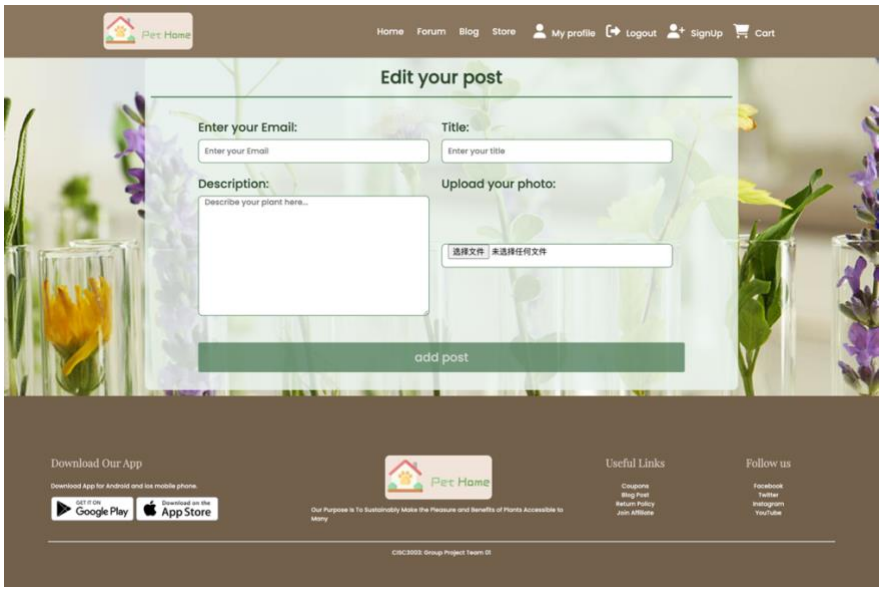
8) Store Page

- items demonstration for cats, dogs and pet supplies
- Button to enter these shops
- Can click the image to enter product page



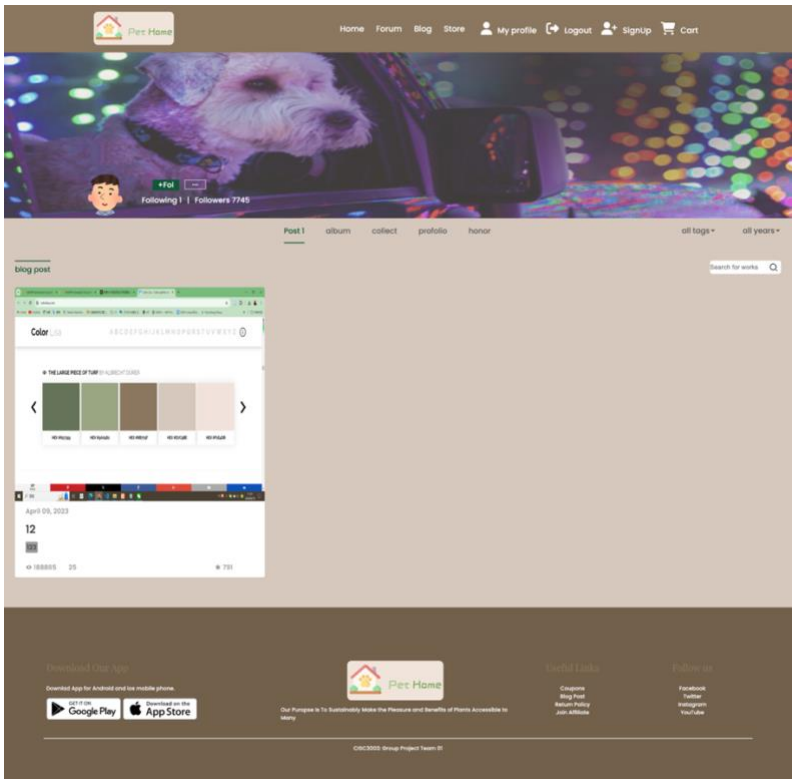
9) Post Page

- Fill in required content to post a blog (data stored in table ‘post’).
- Post can only be posted if the input Email exist in database.
- Post can only be posted if the input image file is fit with the regulation size (under 2,000,000 pixel).



10) Profile Page

- The sign up information and post blog of the user
- Only visible in navbar if the user has logged in

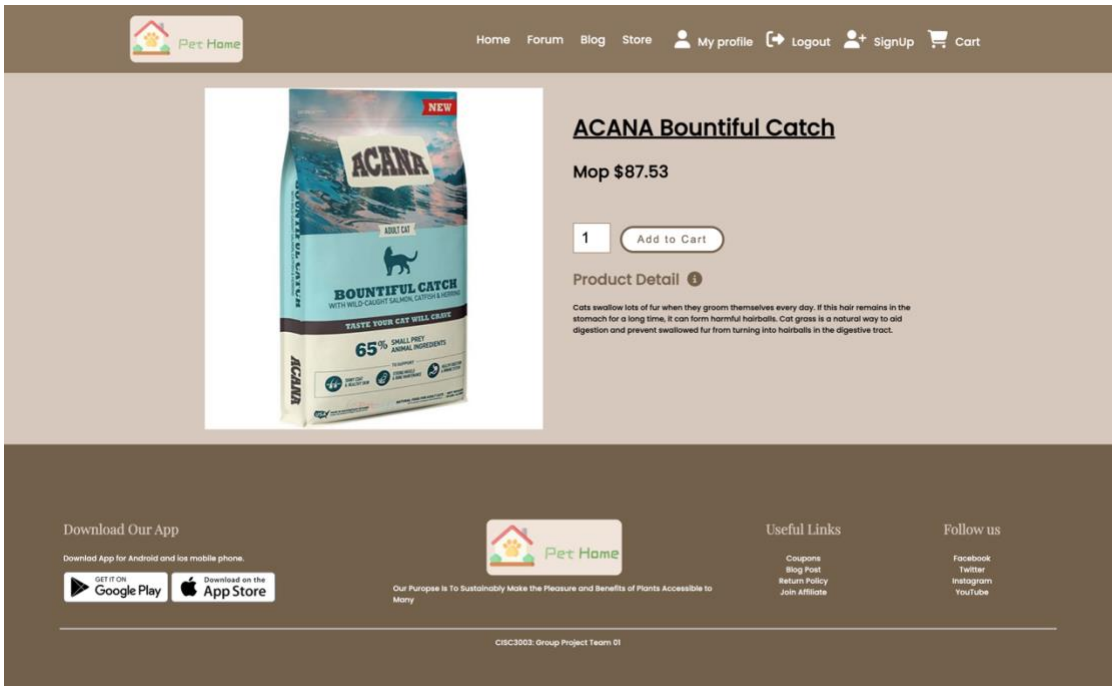


11) Shops by cats / dogs / pet supplies

- Present the items' image, title, score and price
- Can click the image to enter product page

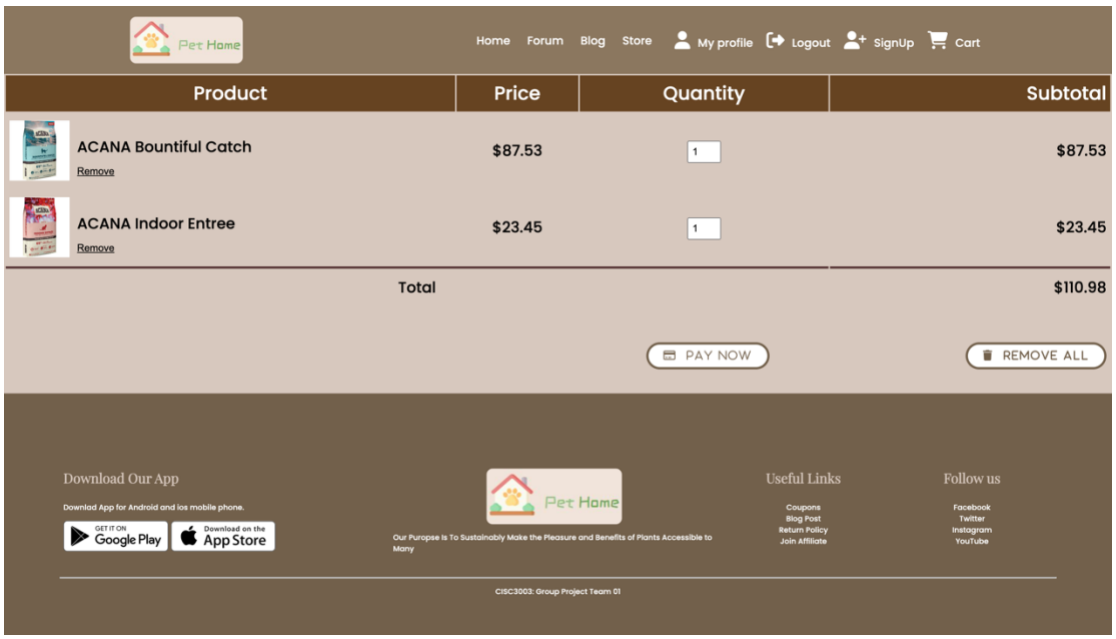
12) Product Page

- Present the image, title, price, detail of a single product
- Input field and button to select the number of item to add to cart.



13) Cart page

- Only visible if the user logged in.
- Able to change the quantity of item.
- Able to compute the total price of the whole cart.
- Button to remove all content in cart.



Section 06: Project Installation Instruction

- **Github link https://github.com/keiran2343434/CISC3003-GroupProject-Team01**

Description

This E-Commerce platform is a fully functional web application developed as part of the CISC3003 course, following the Mr. Web Designer project walkthrough. It allows users to browse products, add them to a shopping cart, and proceed through a checkout process. The platform also includes an administrative interface for managing products and orders.

Installation

Prerequisites

- Apache server (XAMPP recommended)
- PHP (version 7.4 or higher)
- MySQL (MariaDB or MySQL proper)

Setup Instructions

1. Extract the project:
   - Extract the project into your web server directory, typically `xampp/htdocs` if you are using XAMPP.

2. Setting up the environment:
   - Start the Apache and MySQL modules via the XAMPP control panel.

3. Database Setup:
   - Open phpMyAdmin from your XAMPP control panel.
   - Create a new database named `shop_db`.
   - Import the `shop_db.sql` file located in the `CISC3003-SemesterProject-Part2` directory. This file contains all the necessary tables and schema required for the application.

4. Configuring the Application:
   - Ensure the `CISC3003-SemesterProject-Part2/project/uploaded_files` directory has appropriate write permissions set, as follows:

   ```
    chmod -R 755 /path/to/xampp/htdocs/CISC3003-SemesterProject-Part2/project/uploaded_files/
   ```

    - Adjust the database connection settings if necessary in `CISC3003-SemesterProject-Part2/project/components/connect.php`. Default settings:

  ```
   php
   $dsn = 'mysql:host=localhost;port=3306;dbname=shop_db';
   $username = 'root';
   $password = '';
  ```

5. Accessing the Project:
   - Open a web browser and navigate to `localhost/CISC3003-SemesterProject-Part2/project` to access the application.

- Explore the functionalities like adding products, viewing products, managing the cart, and checking out.

Features

- Product Browsing: View a list of available products.
- Shopping Cart: Users can add products to their shopping cart and modify their selections.
- Checkout Process: A step-by-step process to complete the purchase.
- Admin Panel: Manage products and view orders.

Additional Notes

- Ensure all dependencies are installed and configured properly as per the prerequisites.
- The platform is designed to run in a local environment for demonstration and development purposes.

Contact

For any further assistance or queries, please feel free to contact the course instructor or the support team at your institution.

Section 06 : Project Self-Assessment

Part 1 Project Setup under Eclipse IDE

Assessment Items	Item Examined	Item Score	Score Earned by: Team 01
1. Select your Eclipse workspace at d:\cisc3003-2024\CISC3003-YourStudentID-2024, where YourStudentID is your student ID (in lower case letters and digits, say, dc251924). The file must exist within the "htdocs" folder of the server, and then the request will be "localhost/some-path/".	Test-run from Eclipse IDE	1	1
2. Create your Eclipse project for this suggested exercise and name it " CISC3003-GroupProject-Team01"	Test-run from Eclipse IDE	1	1
3. Create a folder under your project space and name it "images"	Test-run from Eclipse IDE	1	1
4. Move all the image files for this project into the above "images" folder	Test-run from Eclipse IDE	1	1
5. Create a folder under your project space and name it "css", another is named “js”	Test-run from Eclipse IDE	1	1
Score earned in Part 1		6	6

Part 2 Work Steps - Frontend Design

Assessment Items	Item Examined	Item Score	Score Earned by: Team 01
1. Start creating the six HTML pages by following the 1-page design format with the responsive design.	HTML visible from Eclipse editor, and Web browser	12	12
2. Produce the different sections in your Web pages and corresponding css files, including the various styling rules for your different sections in your Eclipse HTML editor and CSS editor respectively. And put the css files in the folder "css" under the project space.	HTML/CSS files visible from Eclipse editors, and Web browser	10	10
3. Render your Web pages in an external browser (e.g., Chrome, Firefox, or Edge).	HTML visible from Eclipse editor, and Web browser	2	2
4. Add a footer section in the Web page produced in (4).	HTML visible from Eclipse editor, and Web browser	2	2
Score earned in Part 2		32	32

Part 3 Work Steps - Backend Design

Assessment Items	Item Examined	Item Score	Score Earned by: Team01
1. Create the php files "BlogPage.php", "CartPage.php", "ForumPage.php", “HomePage.php”,”Login.php”, "mailActivate.php", "navbar.php", "post.php", “ProductDetail.php", "rest.php", "signup.php", "StoreCatPage.php”, "StoreDogPage.php", "StoreService.php”, "user.php", “verify.php"	HTML source code visible from Eclipse editor, and Web browser	16	16
2. Start editing the 16 PHP pages by following the 1-page design format with the responsive design.	HTML visible from Eclipse editor, and Web browser	32	32
3. Creating the database in Xampp PhpMyAdmin, and connect it to the php. Edit the database and insert the needed testing data.	Database visible from Xampp PhpMyAdmin Web Page	5	5
4. Produce the needed sections in your Web pages and corresponding css files, including the various styling rules for your different sections in your Eclipse HTML editor and CSS editor respectively. And put the css files in the folder "css" under the project space.	HTML/CSS files visible from Eclipse editors, and Web browser	12	12

5. Create the “StorePage.php”, “Login.php” and “mailActivate.php”, “user.php”, “Forum.php” for the post function in the website. Edit the php files and connect to corresponding “webproject” database.	Database visible from Xampp PhpMyAdmin Web Page with Web browser page visible	10	10
6. Render your Web pages in an external browser (e.g., Chrome, Firefox, or Edge).	HTML visible from Eclipse editor, and Web browser	2	2
Score earned in Part 3		77	7

Part 4 Test and Submission Steps

Assessment Items	Item Examined	Item Score	Score Earned by: Team01
1. Firstly, test your pages with different sections by seeing if its presentation follows the 1-page format. Be sure to test the responsive design by resizing the windows, and observing the changes in screen appearance. Capture your screens to prove your media queries work.	HTML visible from Eclipse editor, and rendered in Web browser	15	15
3. Include the screen shots from (1) and (2) in a) the Eclipse project space (under a folder called "Our Screen Shots"), and b) in the sharing forum CISC3003 Project Assignment Part 1 forum - Due on 2024MAY06 11:00 pm.	Screen shots captured and shared in the related forum	12	12
3. Zip the folder (note the ".zip" extension is not part of the name | Do not use ".rar" format, but the ".zip" format)	Eclipse project space from your submission	1	1
4. Submit your zipped file at CISC3003 Submission Link for this project	Submission Link	1	1

Score earned in Part 4		26	26

Part 5 Contents and Look-and-Feel Design Score

Item under Evaluation	Assigned Score	Earned Score
Home Page	3	3
Forum Page	3	3
Forum Page - Post detail	3	3
Blog Page	3	3
Store Page	3	3
Store Page (Cat)	3	3
Store Page (Dog)	3	3
Store Page (Pet Supplier)	3	3
Login Page	3	3
Login Page - Login Function	3	3
Signup Page	3	3
Signup Page - Singup Function, Email Validation Function	3	3
Cart Page	3	33
Cart Page – Add to Cart Function	3	3
Overall Style	3	3
Design of Navigation	3	3

Design of CSS files	3	3
Header and Footer in web pages	3	3
Images	3	3
Textual Information	3	3
Score earned in Part 5	60	60

Total Score – Team01

Item - Suggested Exercise 09	Allocated Score	Your Earned Score
Part 1 Assessment on Project Setup under Eclipse IDE	6	6
Part 2 Assessment on Project Work Steps - Frontend	32	32
Part 3 Assessment on Project Work Steps - Backend	77	77
Part 4 Assessment on Project Test and Submission Steps	26	26
Part 5 Assessment on Contents and Look-and-Feel Design	60	60
Total Score	201	201
100 Scale	100	100
Classification on Quality of Work	Good	