CW2 Specification

Team Component

Project Overview

The client, "Healthy Habitat Network," is a non-profit organization dedicated to promoting health and wellness in communities through sustainable living practices. The initiative aims to develop an online platform encouraging individuals and families to adopt healthy, sustainable lifestyle choices by connecting them with businesses offering health and wellness products and services. The platform will serve as a bridge between health-conscious consumers and businesses, fostering a community focused on well-being and sustainability.

The platform will help residents become familiar with products and services that promote healthy living and sustainable practices. Below are a few examples of health and wellness services and products, with additional options included for a comprehensive understanding:

Services:

1. **Healthy Eating Programs:**

   - **Nutrition Counseling:** Personalized plans to help individuals meet their dietary needs and health goals.

   - **Organic Meal Delivery:** Subscription-based services providing organic, healthy meals.

2. **Fitness and Wellness:**

   - **Yoga and Meditation Classes:** Online or in-person classes focused on mental and physical well-being.

   - **Personal Training Services:** Customized fitness programs tailored to individual goals.

3. **Sustainable Living:**

   - **Eco-Friendly Home Cleaning:** Use of non-toxic, biodegradable cleaning products.

   - **Sustainable Gardening:** Techniques like permaculture and organic gardening to grow food sustainably.

4. **Mindfulness and Mental Health:**

   - **Counseling and Therapy:** Access to professional mental health services.

   - **Stress Management Workshops:** Techniques to manage and reduce stress.

Products:

1. **Reusable Health Products:**

- **Stainless Steel Straws:** Alternatives to plastic straws to reduce waste.

- **Reusable Face Masks:** Sustainable and washable masks made from organic materials.

2. **Eco-Friendly Fitness Gear:**

   - **Cork Yoga Mats:** Made from sustainable cork, providing a natural alternative to synthetic mats.

   - **Bamboo Fiber Towels:** Biodegradable and highly absorbent towels for fitness enthusiasts.

3. **Organic Personal Care Products:**

   - **Natural Deodorants:** Free from harmful chemicals and made from organic ingredients.

   - **Plant-Based Skincare:** Products derived from natural, organic plants, without synthetic additives.

4. **Home Wellness Products:**

   - **Air Purifiers with HEPA Filters:** Improving indoor air quality by removing pollutants.

   - **Organic Bedding:** Sustainably sourced, chemical-free bedding options.

Health and Wellness Businesses (SMEs)

The online platform will allow health and wellness businesses to register, providing essential details such as company name, contact information, and the health-oriented products or services they offer. Each product or service listed will include a name, a detailed description, size or quantity, health benefits, and pricing categorized as affordable, moderate, or premium. A key requirement from the client is that each health and wellness product or service can only be registered once, ensuring exclusivity for each business. Additional attributes, such as certifications (e.g., USDA Organic, Non-GMO), can be added to enhance the listing's credibility.

Health-Conscious Consumers (Residents)

The platform will enable residents interested in health and wellness to browse through the listed products and services. Residents can express interest in specific health and wellness offerings by casting votes for the products or services they believe can positively impact their well-being. To vote, residents must first register on the platform, providing details such as location, age group, gender, and areas of interest such as Nutrition, Fitness, Mental Health, Sustainable Living, etc. Residents are allowed to vote for multiple products and services, reflecting their varied interests.

Votes to Health and Wellness Companies (SMEs)

To express their interest in a health and wellness product or service, residents will use a "Yes/No" voting system to indicate whether they find the health benefits valuable. The platform will display the products and services that receive the highest number of votes, helping businesses identify popular offerings. This voting system encourages the promotion of products and services that contribute significantly to personal health and wellness.

Residing Areas of the Consumers

The platform aims to help health and wellness businesses monitor residents' votes to identify potential demand, supply, and marketing opportunities for their products and services. The platform also seeks to promote healthy living practices beyond urban areas, making it crucial to record the location of each resident. Users will provide their location by selecting from a dropdown menu of participating areas during registration.

The client has determined that local councils will be responsible for adding their respective areas to the platform, enabling residents to easily select their location during registration. Additionally, local councils can use the platform to monitor which health and wellness services or products residents in their area are most interested in. This information can be used to collaborate with businesses in promoting specific health and wellness initiatives to the community.

Data Model

Below is a preliminary data model for the proposed web platform that comprises vote, product, resident, eco-friendly companies (SMEs), and areas. The students may also wish/need to expand the data model to include other relevant entities, such as those which serve primarily as a look-up table. For example, an additional, implemented table called 'Title' (with values Mr, Miss, etc.) if linked to an owner would allow the "title" values to appear as a drop-down menu when adding a new owner using the platform's framework. This would enhance usability and minimise user input errors. Consult teaching resources for more examples
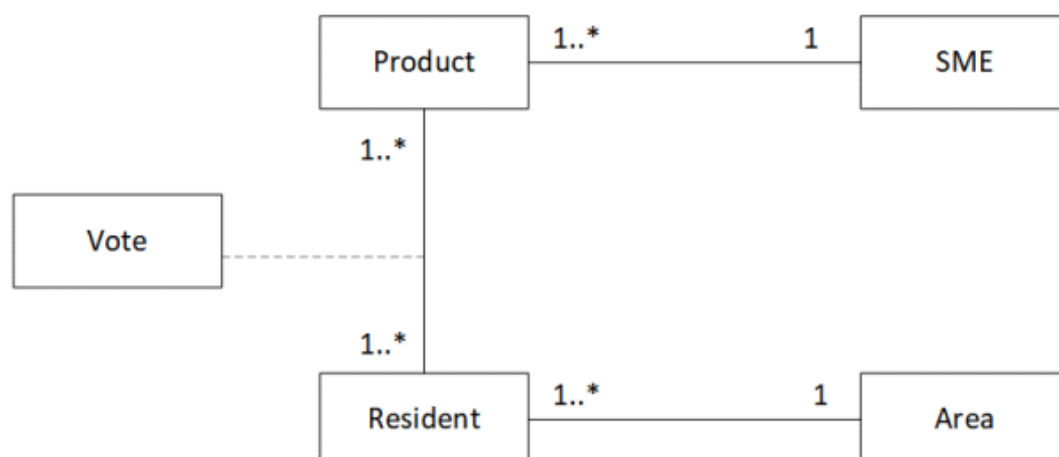
Team Tasks overall

As a team, produce a design/implementation of the 'Healthy Habitat Network' prototype in the form of a web-based prototype (software artefact), alongside a supplementary team report on project management.

Teams must also attend a mandatory demonstration viva to attain marks

NOTE: *Team members are expected to make fairly equal contributions. This can take different forms, i.e. not just volume of work, but also organisation and leadership. Some examples of different team roles for this assessment include project management, screen design or coding web pages, database development, user interface considerations and evaluations, etc. N.B. Where there are contribution problems, students should inform the module tutor. If the tutor deems there is evidence of an unequal contribution, the team mark may be reduced for individuals with a lower contribution.*

Team Tasks in Detail

1. Web-based prototype (software artefact)

Using the PHP platform provided, implement a prototype based on the given scenario.

This entails:

- Creating the database (use of MySQL can be managed via phpMyAdmin within PHP)
- Implementing the CURD operations to tie the backend database to your frontend application.
- Modifying the user interface using HTML, CSS and Javascript technologies

NOTE: *you must use the provided platform. You can use additional libraries to enhance usability, such as Bootstrap for styling, but you must ensure this is integrated within PHP.*

Ensure the prototype includes sample data, e.g. fictional representative records in tables.

You must develop a prototype that allows you to perform the steps detailed in the marking scheme (demonstrated during the demo). The user interface of your prototype should conform to the criteria described in the marking scheme.

SUBMIT: zip of your completed PHP stack from its root, and include a . SQL file of your database structure (within phpMyAdmin, click the root of your database and choose the 'export' tab. Check the SQL file has both 'create' and 'insert' statements reflecting your database tables and sample data records).

2 Team report on project management

- Title page with team number and list of team members' names + course code + title: Team Report
- Discussion on project management (500 words) (discuss how your team organised the CW2 project work and distributed tasks in your team.)
- Provide 3 screenshots of your team Kanban board (e.g. Trello):
  - Screenshot 1 at the beginning of development (tasks are expected to be listed in to-do column)
  - Screenshot 2 (in the middle stage of the development)
  - Screenshot 3 (at the end of the development

SUBMIT: A Word file with the report to Canvas

3. Demonstration Viva

After the hand-in, your team MUST attend a demonstration (demo) viva (Q&A), which will be scheduled with the module tutor (acting as the client). Whilst the nature of this is not overly formal, it is a formal, mandatory part of the assessment and should be treated like an exam.

Your prototype will be tested and marked during the demo, but you must submit your artefact and team report by the deadline before the demo.

Marks and textual feedback will be given on Canvas using the rubric associated with your submission.

The demo may be followed by a Q&A led by module tutor. These questions will be based on your prototype and supplied documentation, and against team roles.

The slot (demo and Q&A) for each team is up to 20 minutes (plus a few minutes for set-up).

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NO SUBMISSION is required for the demo, but every member of the team needs to attend. Marks cannot be awarded to those members who do not attend the demo. If you cannot attend and have extenuating circumstances, you should seek advice from module tutors. Following the demo, any alterations to the team mark, or marks for individuals (if there are concerns over contributions), will be at the discretion of module examiners and moderators.

Demos will be recorded for moderation purposes.

CW2 Team component is worth 60% of the module mark overall.

Marking Scheme (Team Component)

1. Basic Functional Requirements		
a) Add a new area	CRITERION: Mostly clear processing steps and data examples. Lower marks for incomplete/less detail	3 marks
b) Add a new resident		4 marks
c) Associate new resident with the new area		5 marks
d) Add a new product for an existing Healthy Habitat Network		4 marks
e) Add a new vote by the new resident for the new products		8 marks
f) Edit data by changing existing Healthy Habitat Network for the product		4 marks
g) Drill downs: search/filter the products. Display all products which are classified based on the health product/service"		4 marks
h) Drill downs: search/filter the products. Display all those products which are classified based on the health product/service and for which the price is less than £200		8 marks
SUBTOTAL		**40 marks**

2. Advanced Functional Requirements (Choose ONE, but NOT all of the below to implement)		
• Data reporting: Display a view (via custom SQL) showing the results of all products that residents are interested in, ranked from the highest to the lowest score. Ensure the product's name and the price of each Healthy Habitat Network product or service are listed beside its respective total score.	CRITERION: Mostly clear processing steps and data examples. Lower marks for incomplete/less detail	10 marks

• System access rights: entry to interface via a login screen with restriction of pages in the navigation and/or functionality (such as read/write) for different users. The system shouldn't be accessed without a login		10 marks
• Batch processing and restricting data: the ability to set availability for all products provided by a certain Healthy Habitat Network. Include a custom form field box(es) with input criteria to select a Healthy Habitat Network and alter their products to 'available' or 'unavailable'. Unavailable products should not be possible to vote for (by restricting data)]		10 marks
• Other additional feature(s) chosen by you [10 marks]		10 marks
SUBTOTAL		**10 marks**

3. User Interface-related Requirements		
a) Interface design	Usability principles are considered. During the demo, students can point out/demonstrate at least 3 of Nielsen's usability criteria which are implemented Interface colour scheme, contrast, and layout are appropriate	10 marks
b) Workflow	Smooth workflow, and usability is considered	5 marks
c) Error-prevention, form validation	Error prevention is considered. Form validation is present. Meaningful feedback messages	5 marks
SUBTOTAL		**20 marks**

4. Team Report		
a) Discussion on project management	Provide a detailed description of project management and sharing tasks with specific examples. Lower marks for lacking in detail/more generic examples	10 marks
b) 3 Screenshots of Trello board	Breaking down task into subtasks is sensible. Screenshots show effective project management	10 marks
SUBTOTAL		**20 marks**

	5. **Demo**	
Presentation of the application	Criteria: the team is well-prepared for the demonstration. Professionalism.	10 marks
SUBTOTAL		**10 marks**
TOTAL		**100 marks**