

Faculty of Information and Communication Technology

ITCS223 Introduction to Web Development

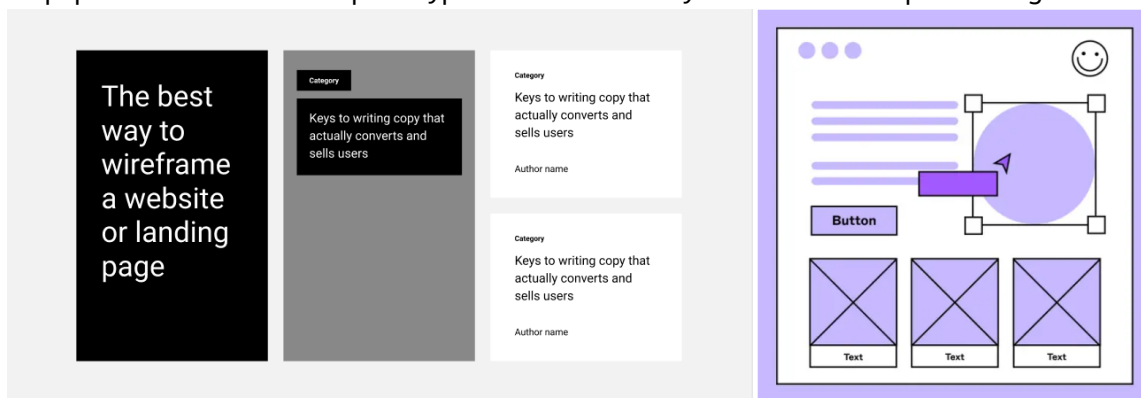
Project Phase I (15 pt)

Assigned Date: Jan 15, 2025

Phase I gives you an opportunity to explore and design the web application for the selected business domain. The team can choose the existing business domain or create your own business. With the team of 5-6 students, the requirement of the web design are shown below.

Task 1: Wireframe

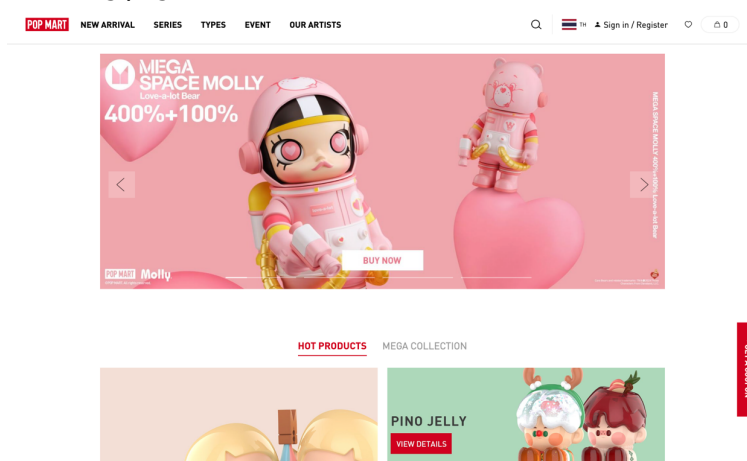
Wireframes (see example below) are the sketched version of your web applications that allows developers (or designers) to plan the component of the page, the structure of a page, or the information on the page. The wireframing process can involve several stages with a rough sketch on paper to a more detailed prototype. This will benefit you for the development stages.



Example of Wireframes (original image from <https://www.figma.com/>)

For the project, your wireframe must cover the following requirements:

1. **Home Page** or Landing page for every user to provide the information about products/services
 - The page **must** have a navigation bar indicating the sitemap to other pages
 - The page **must** have a link or button for accessing the **Login** Page for administrators only in (2)
 - Contents (e.g., texts or images) that are meaningful and related to your business domain

Example: Landing page from POP MART Thailand¹**2. “Login” Page for Administrators (a person who manage product/service data) using username and password.**

- The page should have a form consisting of input boxes and buttons for authentication.
- The page must connect to the homepage/navigation bar

3. “Search” page for searching product/services

- The page should have a form consisting of search boxes and criteria for searching (e.g., search by product name, product type). There must be **at least 3 criteria** used for searching, for example, search by names, search by rating, search by product/service types.

Example: Advanced search from Kinokuniya², where users can search by title, author, publisher and other criteria.

Category	All ▼				
Title	<input type="text"/>				
Author	<input type="text"/>				
Publisher	<input type="text"/>				
Limit to available items	<input checked="" type="checkbox"/> Available ONLY				
Publication Date	Year ▼	Month ▼	~	Year ▼	Month ▼
Results per page	20 ▼				

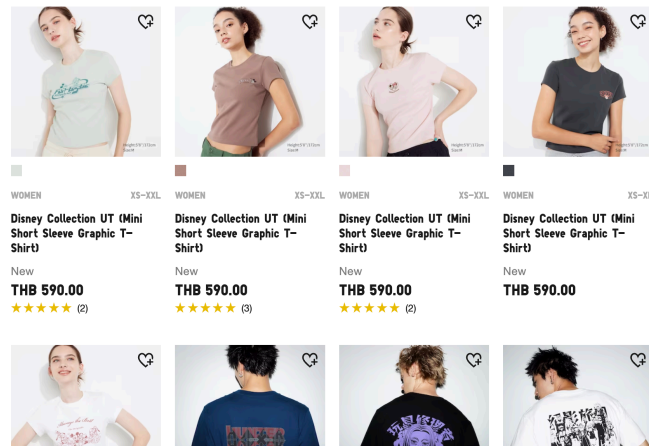
SEARCH
CLEAR

- The search result will be shown below the search boxes in the form of a creative table or a list on the same page. Show at least 5 product/services to show as mock-up results.
- Example: Result after searching from Uniqlo Thailand³

¹ <https://www.popmart.com/th>

² https://thailand.kinokuniya.com/advanced_search/new

³ <https://www.uniqlo.com/th/>

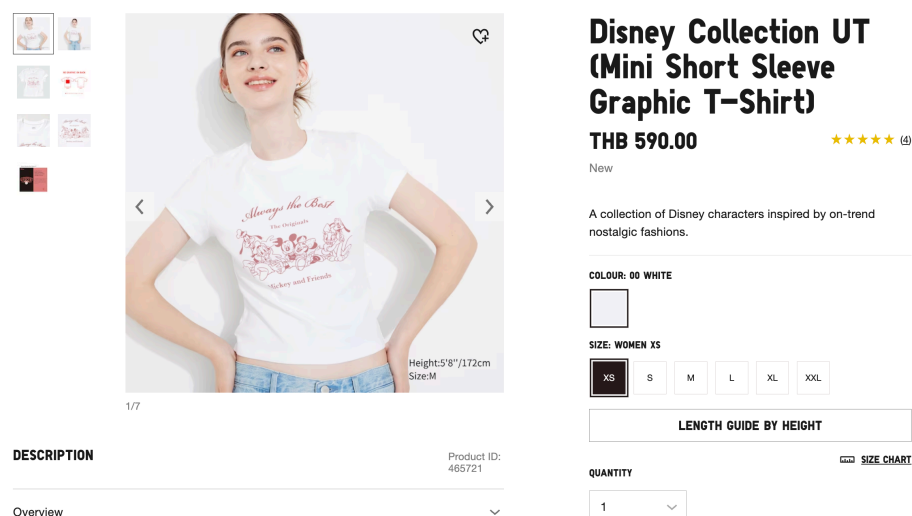


- Each product or service of the output should go to its “Detail” in (4)

4. “Detail” page for each product/service result

- The detail page shows the information regarding the selected product/service.
- The should be a template for putting the product/service information.
- The information of the selected product/service should be related to your Data Model design in Task 2

Example: The details may include product ID, name, category, sizes, prices, etc.



5. “Product/Service Management” page for administrators

- The page provides a form to add a new product/service
- The page should allow the administrators to modify the existing products/services
- The page should allow the administrator to delete the specific products/services.

6. “Team” page

- Provide information about your team members

Task 2: Data Model

The data model (e.g. Entity Relationship Diagram – Chen or Crowfeet, Relational Schema) and the data dictionary allows the team to conceptualize your core business data to support your web application. The data should include:

- Administrator information (e.g., first name, last name, address, age, and email),
- Administrator login information (e.g., username, password, role, and log-in log), and
- Your business domain data (e.g., product info, services).

Task 3: A Design Summary Report

The Design Summary Report in PDF format, including:

- Describe your selected business domain (e.g., history, their product and services, their platform) and the scope of your business domain in about 100-150 words.
- Results from Task 1: Wireframe
- Results from Task 2: Data Model

Note: Please ensure the clarity of screen capture images in the report.

Submission: Sunday, Mar 2, 2025, at 11:59 PM (For all sections)

Note: No late submissions will be accepted.

Academic Integrity

Please do your own group work. Your survival in the subsequent courses heavily depends on the programming skills that you harvest in this course. Though students are allowed and encouraged to discuss ideas with others and search for the online sources, the actual solutions must be written by themselves without being dictated or looking at others' code. Collaboration in writing solutions with other groups is not allowed, as it would be unfair to other students. It is better to submit a broken program that is a result of your own effort than taking somebody else's work for your own credit! Students who know how to obtain the solutions are encouraged to help others by guiding them and teaching them the core material needed to complete the project, rather than giving away the solutions.

Marking Criteria

Criteria	Level 3	Level 2	Level 1	Level 0
Business Domain / Websites Explanation				
Quality of Explanation	The explanation is comprehensive, includes relevant examples or references related to the selected business, and clearly defines the scope. The word count falls within the specified range of 100–150 words.	The explanation is general and lacks specific examples or references to support the selected business. Alternatively, the word count does not meet the specified range by less than 25% (75–190 words).	The explanation is incomplete or demonstrates a lack of understanding of the selected business and its scope. Additionally, the word count deviates from the specified range by more than 25% (<75 or >190 words).	No explanation about business domain or websites
Wireframe				
Completeness of functions	All functions are designed according to the given requirements.	1–2 functions are missing or not designed according to the given requirements.	More than 2 functions are missing or not designed according to the given requirements.	No wireframe is implemented
Details and Clarity	All elements in the wireframe are clear and detailed, making it ready for further development.	1–5 elements in the wireframe lack sufficient details for further development.	More than 5 elements in the wireframe lack sufficient details for further development.	
Navigation and Connectivity	All web pages and elements in the wireframe are correctly and appropriately linked.	1–2 web pages in the wireframe lack proper links or connections.	More than 2 web pages in the wireframe lack proper links or connections.	
Data Models				
Completeness of data requirement	All entities are designed to align with the specified business or application requirements.	1–2 entities are not designed to align with the specified business or application requirements.	None of the entities are designed to align with the specified business or application requirements	No data model is implemented.
Overall report				
Reference	All references are properly and clearly cited.	-	-	No references are provided.