

School of Computing and Information Technology
Web Programming (CIT2011)
Semester 1 AY 25-26
Individual Assignment #2

Due: Week of Oct. 23 – 29

Total Marks: 60

DESCRIPTION

- You are to conceptualize a **for-profit business** and then build an e-commerce website based on that business idea. This **business idea must be communicated to your tutor before starting** the project so that he/she can validate the concept and ensure that replication is not present among others.
- Use this QR code to *“share your idea with your tutor”*. Select the tab with your tutor’s name; then enter your details on the sheet.



- Using vanilla HTML5, CSS3, JavaScript to build a dynamic website based on the following instructions.

INSTRUCTIONS

- Write all code **from scratch** using plain HTML5, CSS3 and JavaScript.
- Do **not** use JavaScript frameworks, or WYSIWYG editors [Dreamweaver, Word, etc.].
- Organise files as follows:
 - Codes/ → all HTML files
 - Assets/ → all images/media
 - style.css → external stylesheet linked to all pages
- Save your folder using your student ID [e.g., 1234567_IA2_S1AY26].
- Upload the zipped folder + working hosting link to **Moodle** before the time ends.
- **Create a GitHub account using your UTech student account.** Give your account a professional and meaningful name. *Upload all your IA#2 web programming source code and deliverables to your repository.* Share the link to your repo with your tutor, eg [www.https://www.github.com/jbrown_12345_utech](https://www.github.com/jbrown_12345_utech)

The website should have the following content, amongst other things:-

- o **Login** – include details that are needed for the user to log in to the website; for example username, password, etc.
- o **Registration** – include details that are needed for the user to Register to the website; for example Name, DOB, Email, username, password, etc.
- o **Products** – shows the image and details of each product, etc.
- o **About Us** - Include your fullname, ID#, email, module code, assignment name, day/time of class. Use a mailto link that will give potential customers a chance to send comments and queries to the company’s email address (ie your id#@utech.edu.jm eg 2210723@utech.edu.jm) via email client.
- o **Cart Page:** lists the items in the cart (name, price, quantity, sub-total, discount, tax, and total, etc)
- o **Checkout Page** – shows a summary of the shopping cart with the total cost. Allows the user to enter their shipping details (e.g., name, address, amount being paid). Include confirm and cancel buttons. Include Clear All, Check Out, and Close Buttons.

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BASIC GUIDELINES

A **Storyboard**: usually contains:

1. Draw two [2] separate layout designs, one for mobile [min 600px] and one for desktop [min 950px]. This can be hand-drawn or done using an app or tool, eg Figma, SketchUp, etc. Include the <div> groups in the layout ui/ux design. Webpages must match layout.
2. Include an image of the intended colour palette [including the RGB], icons and their dimensions, font-family, root font-weight, etc.
3. List of each user-defined function, description of their purpose, and creator.
4. Each group member's full name, ID#, email and the respective tasks and/or functions implemented on the project.
5. A link to your **GitHub repository** with the IA#2 source code, resources, such as images, and files such as "storybard-id#.pdf".
 - a. Free hosting link, eg www.netlify.com
 - b. **An APA formatted reference** page that includes all the bibliographic sources of information used in creating the IA#2 website, i.e. books, websites, etc.

1. CSS Knowledge & Application

a. CSS Selectors & Styling

- Correct use of at least 5 different selectors (element, class, id, descendant, pseudo-class, etc).
- Code is clean, readable, and free of inline styles.

b. Layout & Positioning

- Effective use of Flexbox/Grid to structure a basic layout.
- Layout adapts logically (e.g., sidebar + content, navbar + main). Mobile and desktop views.

c. Consistency & Theme

- Consistent color palette, typography, and spacing across pages, use of variables, etc

d. CSS Code Quality

- Well-indented, commented CSS. CSS must be commented with the IA#2 question associated with that CSS. Avoids redundancy by reusing classes.

2. JavaScript Knowledge & Application

a. DOM Manipulation

- Correct use of DOM functions, eg getElementById(), querySelector(), etc
- Dynamically update HTML and CSS using Js.

b. Event Handling

- At least two (2) working event listeners and respective handlers.

c. Form Validation / Input Handling

- Simple validation (e.g., check if a field is empty, validate email format, etc).
- Uses JavaScript functions or updates the DOM with error messages.

d. Basic Interactivity / Logic

- Evidence of correct control structures being used.
- Correct arithmetic calculations.
- Code must be commented with the IA#2 question associated with that Js solution.

3. Integration & Presentation

a. CSS + JS Integration

- CSS and JS are correctly linked as **external files**.
- HTML remains clean and semantic (no inline styling or inline JS).

b. User Experience & Accessibility

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- Clear navigation and readable design.
 - Use of alt text, labels, proper color contrast.

WHAT TO SUBMIT?

1. A zipped folder with the HTML, and CSS source code, etc
2. A Storyboard as a Ms word document with:
 - a) *Student details, ie ID#, Full Name, Assignment #, Day/Time of class, Module name/Module Code.*
 - b) **Storyboard** - including
 - i. wireframe, sitemap, etc.
 - ii. A description of your business, logo, slogan, mission statement, vision, statement, etc
 - iii. Include a brief justification of the color palette you chose for your website, ie the psychology of color in web design and marketing.
<https://www.youtube.com/watch?v=8J0nbuunDXc>
 - iv. Description of the intended audience for your website.
 - c) Use APA formatting to reference all content used including pictures taken from online sources, ie. provide links to the resource.
 - d) Free hosting link.

WHERE TO SUBMIT?

Assignments must be submitted to GitHub and Moodle on or before the due date stated on Moodle.

HOW WILL THE ASSIGNMENT BE GRADED?

- Refer to the rubric for each section/page above.
- Students who are absent from a presentation will be given a zero grade for the entire project.
- Your grade is dependent on your participation in a LIVE presentation of your work.
- -2% for each broken link or missing file.
- -2% for each missing deliverable from the Basic Guideline and Storyboard.
- -5% for poorly indented/uncommented code.
- -10% if using frameworks (e.g., Bootstrap, React) or WYSIWYG tools.
- - 30% penalty if the student is unable to adequately demonstrate their competence based on the project objectives during the LIVE debug aspect of the interview.
- Automatic **0** if project is copied or template-based (students must hand-code).

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 This **rubric** evaluates both the HTML and CSS aspects of a moderate-level web development project, focusing on code quality, design, structure, accessibility, and best practices—total **score: 60 points**.

Students are required to highlight where the criteria are met, using comments in the code, and during the LIVE demo. Students may be asked to debug and write code on the spot.

Category	Criteria	Excellent (4–5)	Good (2–3)	Needs Improvement (0–1)	Score
CSS Knowledge & Application (20%)	CSS Selectors & Styling	≥5 selectors, clean, no inline styles	3–4 selectors, minor issues	<3 selectors, inline styles	
	Layout & Positioning	Responsive, flex/grid, multiple views.	Layout works but limited adaptability.	Broken/static layout.	
	Consistency & Theme	Consistent design, variables, rationale. Clear navigation, accessible (alt, labels, contrast)	Mostly consistent, minor issues. Usable partial accessibility.	Inconsistent, poor readability. Poor UI, no accessibility	
	CSS Code Quality	Clean, indented, reusable classes	Some redundancy, minor formatting issues	Disorganized, no comments	
JavaScript Knowledge & Application (20%)	DOM Manipulation	Multiple DOM updates, clear explanation	1–2 updates, partial explanation	No updates/unclear	
	Event Handling	≥2 listeners, confident explanation	1 listener, limited explanation	Incorrect/no listener	
	Form Validation / Input Handling	Validates multiple inputs, clear feedback	Basic validation, incomplete	No/incorrect validation	
	Interactivity / Logic	Correct control structures, calculations	Minor issues in logic/arithmetic	Incorrect/missing logic	
Communication & Explanation (20%)	Problem-Solving Approach	Clear, structured reasoning	Some reasoning, lacks depth	No explanation	
	Confidence & Clarity	Confident, clear, engaging	Some hesitation	Struggles to articulate	
	Live Code	Ability to replicate code implementation	Some ability to replicate code	Inability to replicate code	
	Storyboard	All components	Some components	Less than 3 components	