BIRZEIT UNIVERSITY

Computer Science Department

Web Application and Technologies (COMP 334)

First Semester 2024/2025

Assignment 1: HTML ***Due Date 04/11/2024***

This assignment involves the creation of some HTML pages. You are forbidden to use any HTML code generator tools for this assignment.

This individual assignment consists of three tasks:

1. Structure the folder of your website on the CSHost
2. Create your home page
3. Create a website for a Maintenance Request System.

Your HTML file should include:

- The basic components of an HTML file: file type, head, title, body
- Headers of different size
- Paragraphs of text
- An image without a link and <figure> element
- An image that links out to another page
- A hyperlink that is represented as text.
- list
- Table
- Semantic tags
- Form

All of your course assignments and the project must be uploaded to CSHost, and grading will be only for the files uploaded to your folder on the CSHost.

1. **Structure your website folder.**

You need to take some steps to structure your web folder effectively. Start by logging onto the hosting server and opening the " public_html." Then, upload your home page file to the folder so it will be accessible to the public.

After that, create three new folders in the "public_html "ass", "examples", and "project." In each of these folders, make a new file called "index.html," which will be the default web page displayed when visitors browse each folder.

To further organize your content, create a subfolder in each of the three main folders, with a number assigned to it. For instance, within the "ass" folder, create a subfolder named "ass1." Inside "ass1," create a file called "index.html." Repeat this process for the other two folders, ensuring the subfolders and files are appropriately named.

Additionally, inside the "examples" folder, make a subfolder called "htmlEx." Upload the HTML examples discussed in the lecture, then make an "index.html" file to refer to the examples.

By following these steps, you'll have a well-structured and easy-to-navigate web folder, making it simple for visitors to locate what they're looking for.

You have provided full details on setting up your domain on the CS host on the last page.

2. **Create Your Home Page**

Using HTML elements explained in Chapter 03 and Chapter 05, create your personal home page to provide information about yourself, your education, training, employment, community and voluntary works, and other relevant information.

Biography:

A short biography about yourself, including Personal information (name, student ID, the dept in which you are studying), address, and a nice photo of yourself.

Education:

School and University Education, including the period of study, name of the school, location, date of graduation, expected date of graduation, a link to the school, and the title of the qualification.

Training:

Provide a list of any trainings you have attended or completed, such as:
I have completed various training courses in my field, such as [Course 1] and [Course 2]. These courses have helped me to develop my skills and knowledge in [Field].

Employment or Internship:

I have worked at [Company 1] as a [Position] for [Years]. My responsibilities included [Responsibility]. I also worked at [Company 2] as a [Position] for [Years]. My responsibilities included [Responsibility].

Community and Voluntary Works:

I have volunteered at [Organization] for [Years]. My role was to [Responsibility]. I have also participated in various community service activities, such as [Activity 1] and [Activity 2].

Awards and Distinctions:

I received [Award 1] from [Organization] in [Year] and [Award 2] from [Organization] in [Year]. You can find more information about these awards by clicking on the following links: [Link to Award 1] and [Link to Award 2].

Your Study Timetable for this Semester.

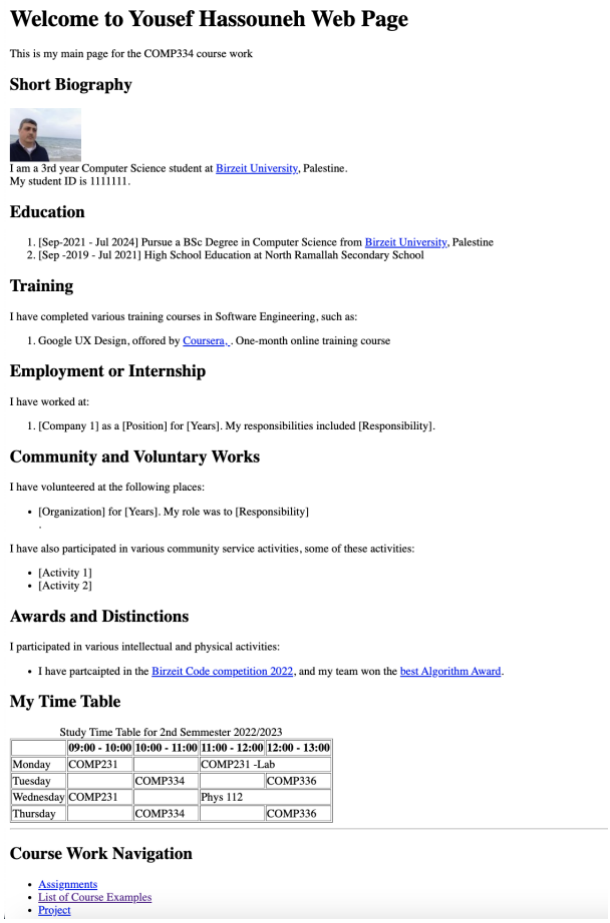
You should create this, so do not take it as a screenshot from Ritaj.

Navigator to your website

Navigation to your website folders: assignments, examples, and projects.

This document is your home page, and it must be stored in a file called “index.html” and uploaded to the “public_html” folder on the CShost, as explained above. You can access this page from your website, for example: http://web{STUDENT_ID}.studentswebprojects.ritaj.ps/ , where STUDENT_ID is your student ID.

Figure 1 below shows a sample page of how your home page should look like.



Welcome to Yousef Hassouneh Web Page

This is my main page for the COMP334 course work

Short Biography

I am a 3rd year Computer Science student at Birzeit University, Palestine.
My student ID is 1111111.

Education

1. [Sep-2021 - Jul 2024] Pursue a BSc Degree in Computer Science from Birzeit University, Palestine
2. [Sep -2019 - Jul 2021] High School Education at North Ramallah Secondary School

Training

I have completed various training courses in Software Engineering, such as:

1. Google UX Design, offered by Coursera, . One-month online training course

Employment or Internship

I have worked at:

1. [Company 1] as a [Position] for [Years]. My responsibilities included [Responsibility].

Community and Voluntary Works

I have volunteered at the following places:

- [Organization] for [Years]. My role was to [Responsibility]

I have also participated in various community service activities, some of these activities:

- [Activity 1]
- [Activity 2]

Awards and Distinctions

I participated in various intellectual and physical activities:

- I have partcaipted in the Birzeit Code competition 2022, and my team won the best Algorithm Award.

My Time Table

Study Time Table for 2nd Semmester 2022/2023

	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00	12:00 - 13:00
Monday	COMP231		COMP231 -Lab	
Tuesday		COMP334		COMP336
Wednesday	COMP231		Phys 112	
Thursday		COMP334		COMP336

Course Work Navigation

- Assignments
- List of Course Examples
- Project

Figure 1: Sample Page of Your Home Page

3. **Maintenance Request Ticketing System**

Project Objective:

Create a web-based system that allows users to submit, track, and manage maintenance requests while enabling communication with the maintenance team. The system will ensure that maintenance issues are handled efficiently by streamlining the process of assigning, managing, and completing requests.

Project Overview:

In this project, you will develop a web application that allows users to submit maintenance requests while the maintenance team manages and resolves them. The system enables the creation, updating, and closing of maintenance tickets, tracks the status of each request, and sends notifications to relevant personnel. You can select the business domain of your client, which could include sectors like home appliances, telecommunications, real estate, office supplies, or others. The main objective of the system is to enhance the usability and efficiency of managing maintenance requests by ensuring tasks are properly assigned, tracked, and completed.

Assignment One Task:

Your task is to create several static HTML5 pages using only the HTML techniques discussed in class and covered in chapters 3 and 5 of the textbook. These pages will serve as a system where administrators can view and assign maintenance tickets to staff members, and users can submit maintenance requests. Use HTML5 semantic elements, such as <header>, <nav>, <main>, <section>, <article>, and <footer>, to create structured, accessible, and SEO-friendly pages.

Static Pages to Create:

- Client Home Page
- Contact Us
- Administrator Dashboard
- Assign Ticket Page
- Maintenance Request Form Page
- Confirmation Page

General Requirements for all pages:

- All the pages must consist of the following parts:
  - **Header**: Contains the logo, site title, and navigation links.
  - **Main Section**: Displays information related to the page's functionality.
  - **Footer**: Displays company contact information (address, telephone number, email) and copyright.

- You must use relative addresses for all links to the documents and resources within your site.
- Validate the page by either using a built-in tool in your editor or pasting the HTML into http://validator.w3.org/ and seeing if it passes. You will notice to pass. It must do many extra things, like have alt attributes on <img> tags. To get a full mark your all your webpages must pass the validation.
- All forms must use the post method to send the user data to the following URL: http://yhassouneh.studentprojects.ritaj.ps/util/process.php
-  : if I find your page somewhere else on the Web, you'll get a ZERO mark.

Client Home Page

Creating a home page for your client should provide information about the client. This information promotes the firm to potential customers, so you must introduce them in terms of the business domain, services provided, major customers, suppliers, etc. You are required to include both text information and pictures or other graphics. You must only use the HTML techniques discussed in class and in Chapters 3 and 5 of the textbook. Make sure to use a fictitious name for your company—one that no one else uses (check the web). Save the home page with the filename *index.html* and store it within a sub-folder named "*ass1*." Then, add a link to the *Assignment One index* file on your home page.

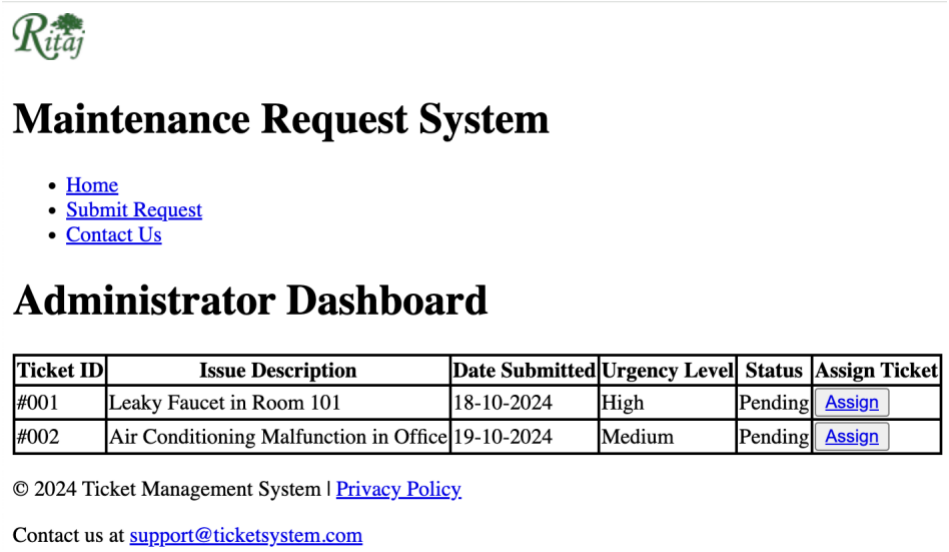
A Contact Us page

This page should provide information on how the store can be contacted. You should give the correspondence address, telephone number, email, and a contact form containing the following details: Sender Name, Sender E-mail, Sender Location (city), Message Subject, Message Body, and send and reset buttons.

Administrator Dashboard

The main section of this page will display all open maintenance tickets that need to be assigned; see Figure 2. It displays the tickets in a table that shows ticket details, like:

- Ticket ID
- Issue Description
- Date Submitted
- Urgency Level (Low, Medium, High)
- Status (Pending, In Progress, Resolved)
- Each ticket will have an "Assign" button next to it to allocate it to a staff member, and the button will link to the Assign Ticket Page.



Ritaj

Maintenance Request System

- Home
- Submit Request
- Contact Us

Administrator Dashboard

Ticket ID	Issue Description	Date Submitted	Urgency Level	Status	Assign Ticket
#001	Leaky Faucet in Room 101	18-10-2024	High	Pending	Assign
#002	Air Conditioning Malfunction in Office	19-10-2024	Medium	Pending	Assign

© 2024 Ticket Management System | Privacy Policy

Contact us at support@ticketsystem.com

Figure 2: Sample Administrator Dashboard Page

Assign Ticket Page

The main section of this page allows the admin to assign a specific staff member to the selected ticket and consists of an HTML form; see Figure 3.

- Provide a dropdown list of staff members available for assignment.
- Display the ticket details (e.g., issue description, urgency level) at the top of the page.
- Assign Button

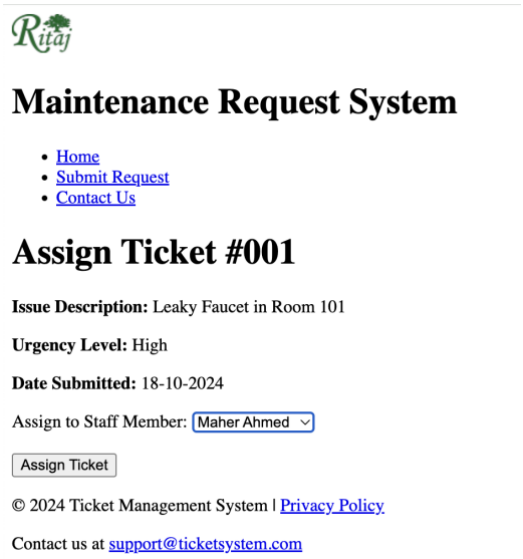


Figure 3: Sample Assign Ticket Page

Maintenance Request Submission Form

The main section of this page allows users to submit maintenance requests by filling out a form that includes fields describing the issue and uploading a photo of the fault to provide visual evidence of the problem (e.g., a broken pipe, malfunctioning equipment, etc.). See Figure 4. This page will contain a form where users can describe the issue they are reporting. The form will include fields such as:

- Name: (Full name of the user reporting the issue)
- Email: (Contact email address)
- Location: (Room or area where the problem exists)
- Issue Description: (Detailed description of the fault or maintenance problem)
- Urgency Level: (A dropdown to select the priority: Low, Medium, High)
- Upload Photo: (An input field)

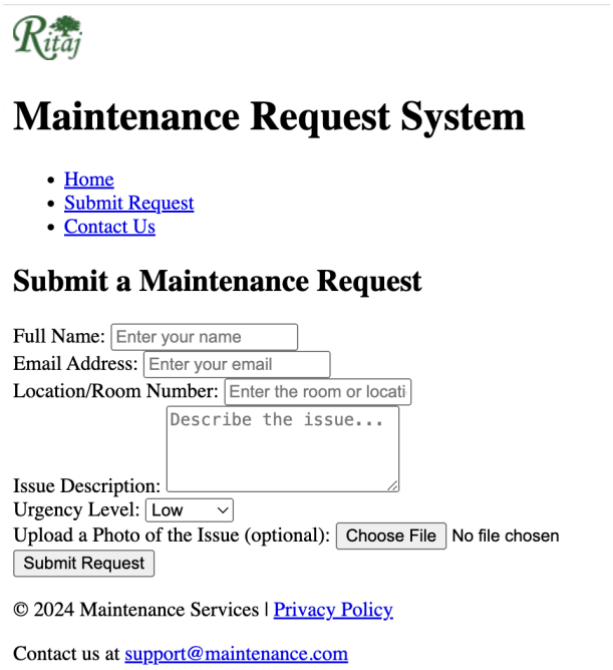


Figure 4: Sample Maintenance Request Submission Form Page

Confirmation Page

After submitting the form, the user is directed to the confirmation page, which displays a summary of the submitted information. The main section summarizes the submitted request: see Figure 5.

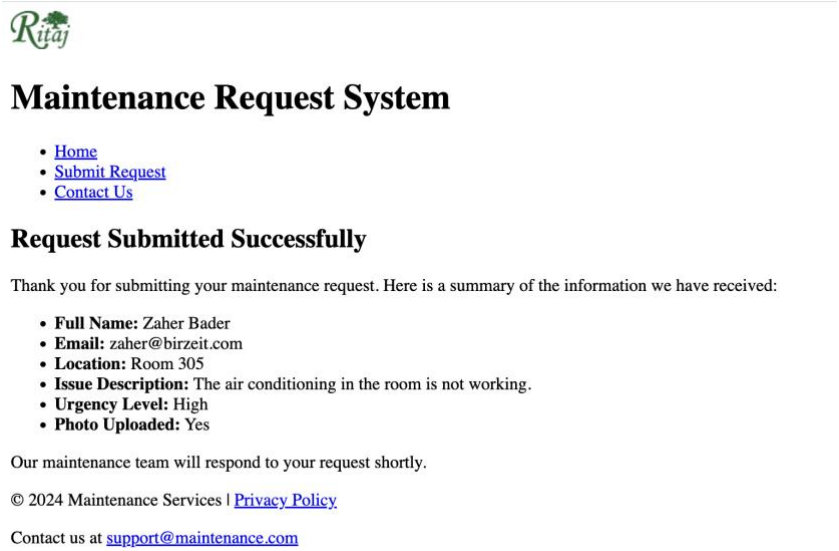


Figure 5: Sample Confirmation Page

Placement of Assignment Files

You must submit your files to CS Host. Please watch the following videos for instructions:

- Hosting Details and Login (https://www.youtube.com/watch?v=K0FFonWBp0c)
- File Manager (https://www.youtube.com/watch?v=5CdMpCrVCVE)

- You should upload your home page (index.htm) file to the "public_html" folder. In your home page file, add a link to the course assignments.
- In the "public_html" folder, create a subfolder called ass1 and upload all the Maintenance Request Ticketing System files to it.
- Also, you must compress (Zipped) all your files (home page and Maintenance Request Ticketing System) to a file named assOne-stID.zip, where stID is your student ID, and submit them to ITC before the due date.

 You must submit your work before the due date on 04/11/2024 at 22:00, by uploading it to the CS host and submitting it to the ITC.