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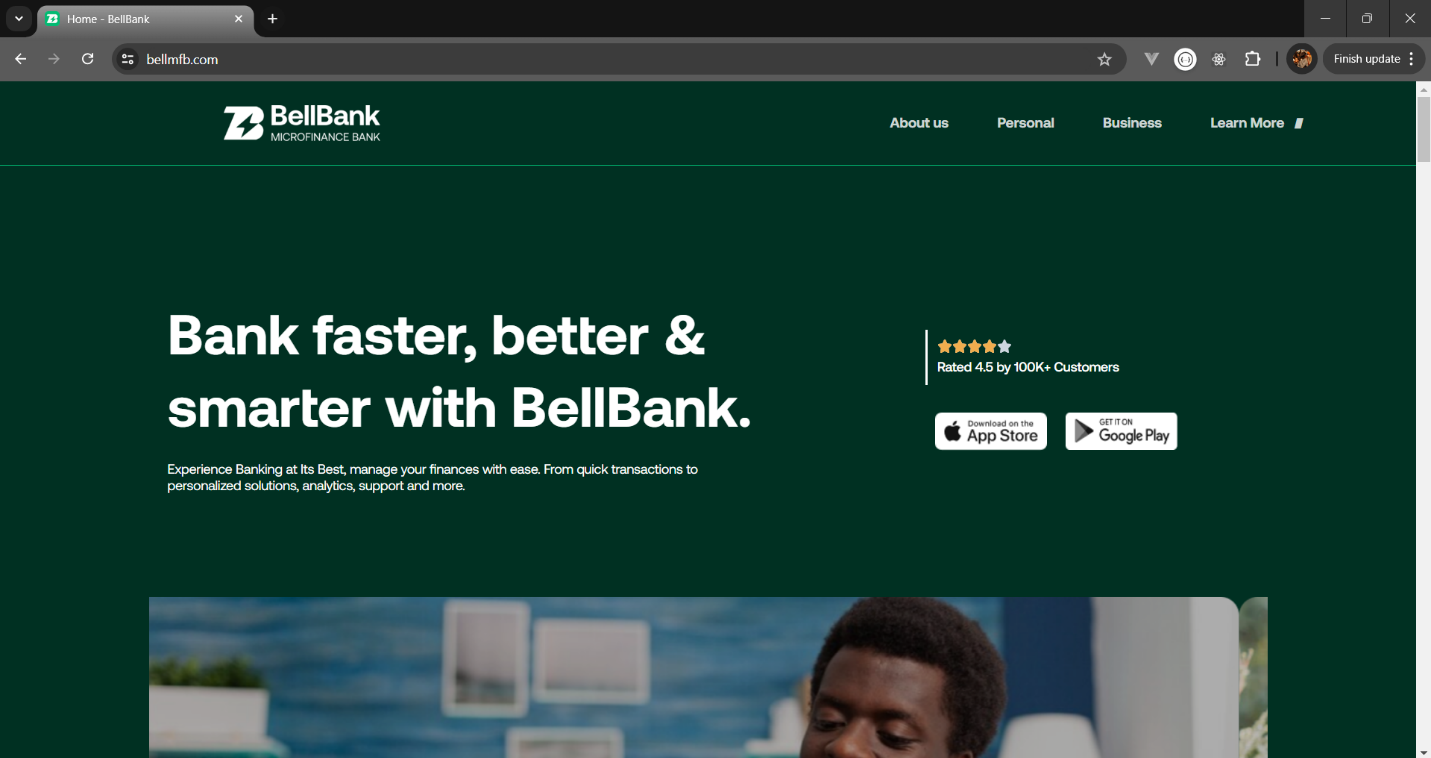
# Chapter One: Introduction to Web Development

## The Internet

The *Internet* is the backbone of the Web, the technical infrastructure that makes the Web possible. The Internet is a large network of computers which communicate all together. The various technologies that support the Internet have evolved over time, but the way it works hasn't changed that much: Internet is a way to connect computers all together and ensure that, whatever happens, they find a way to stay connected.

## [Web page](https://developer.mozilla.org/en-US/docs/Learn/Common_questions/Web_mechanics/Pages_sites_servers_and_search_engines#web_page_2)

A *web page* is a simple document displayable by a browser. Web Pages are what make up a website. For example, on www.bellmfb.com, you can find the home page, about us page, personal page, business page, etc. Such documents are written in the HTML language. All web pages available on the web are reachable through a unique address. To access a page, just type its address (domain name) in your browser address search bar as shown below:



www.bellmfb.com

Figure 1: BellBank Website

## [Website](https://developer.mozilla.org/en-US/docs/Learn/Common_questions/Web_mechanics/Pages_sites_servers_and_search_engines#website_2)

A *Website* is a collection of related web pages located under a single domain name. When you combine the home page, about us page, personal page, business page, etc. and store them under a single domain name www.bellmfb.com. A website is a collection of linked web pages that share a unique domain name. Each web page of a given website provides links, most of the time in the form of clickable portions of text, that allow the user to move from one page of the website to another. To access a website, type its domain name in your browser search bar, and the browser will display the website’s main web page, or homepage as shown in the figure 1 above.

## [Web server](https://developer.mozilla.org/en-US/docs/Learn/Common_questions/Web_mechanics/Pages_sites_servers_and_search_engines#web_server_2)

A *web server* is a computer hosting one or more *websites*. “Hosting” means that all the *web pages* and their supporting files are available on that computer. The *web server* will send any *web page* from the *website* it is hosting to any user’s browser when the user sends a request.

## Domain Name

*Domain names* are a key part of the Internet infrastructure. They provide a human-readable address for any *web server* available on the Internet. Any Internet-connected computer can be reached through a public IP Address, either an IPv4 address (e.g. *104.21.35.168*) or an IPv6 address (*2606:4700:3037::6815:23a8*). Computers can handle such addresses easily, but people have a hard time finding out who is running the server or what service the website offers. IP addresses are hard to remember and might change over time. To solve all those problems, we use human-readable addresses called *domain names* for example [www.bellmfb.com](http://www.bellmfb.com).

**Footnote**: *You cannot “buy a domain name”, instead, you pay for the right to use a domain name for one or more years. You can renew your right, and your renewal has priority over other people’s applications. But you never own the domain name.*

# Chapter Two: HTML and CSS

## Introduction to HTML and CSS

HTML stands for Hyper Text Markup Language. HTML is a *markup language* that defines the structure of your content. HTML consists of a series of elements, which you use to enclose, or wrap, different parts of the content to make it appear a certain way, or act a certain way.



Figure 2: Basic HTML structure

CSS stands for Cascading Style Sheets. CSS is used to styles web content. CSS describes how HTML elements are to be displayed on the screen, paper or in other media.

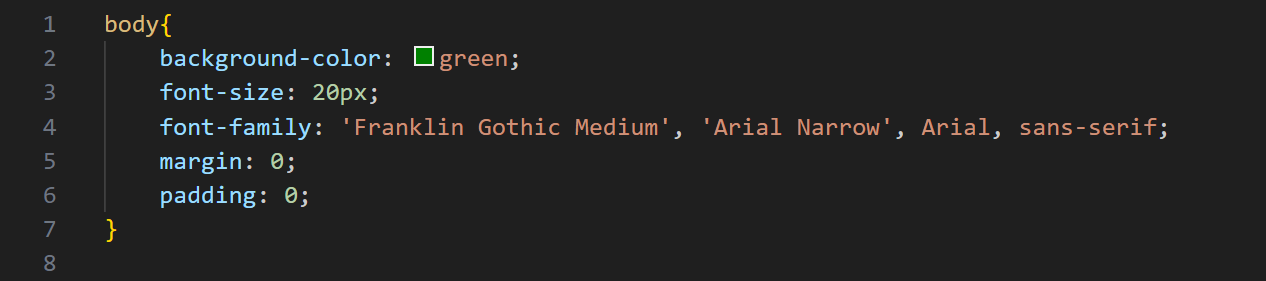


Figure 3: Basic CSS Structure

**Footnote**: *You save an HTML file with the extension of either .html or .htm but use .html as most developers use that. You save a CSS file with the extension of .css*

## HTML Element

An HTML element is an individual component of an HTML document. It represents semantics, or meaning. For example, the title element represents the title of the document as shown in *figure 2* above.

An HTML element is defined by a start tag, some content, and an end tag.

Start tag

End tag

Contents

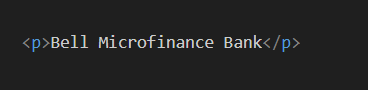


Figure 4: HTML Element

**Note:** Not all HTML element require the start tag and the end tag or close. They have no content and called **empty elements** example like *img, br, hr, etc.*



Figure 5: Empty element

HTML elements can be nested (this means that elements can contain other elements). All HTML documents consist of nested HTML elements. In fig. below, the *title* element is nested inside the *head* element and the *head* element is nested inside the *html* element.



Figure 6: Nesting HTML Elements

### Exercise

1. HTML elements are used to style the website.
2. True
3. False
4. You don’t have to nest your HTML element.
5. Agree
6. Neutral
7. Disagree
8. You can nest the *title* element within the *body* element.
9. Yes
10. No
11. HTML elements can have attributes.
12. True
13. False
14. Choice the correct syntax and most appropriate syntax
15. *<img src=”myphoto.png” alt=”my-photo”></img>*
16. *<img src=”myphoto.png”></img>*
17. *<img src=”myphoto.png”>*
18. *<img src=”myphoto.png” alt=”my-photo”></img>*

# 

**Footnote**:

1. *HTML elements are not case sensitive <P> means the same as <p>. The HTML standard does not require lowercase tags, but W3C recommends lowercase in HTML.*
2. *Never skip the end tag of an HTML element. Some HTML elements will display correctly, even if you forget the end tag. However, never rely on this! Unexpected results and errors may occur.*

## HTML Attributes

# References

1. <https://developer.mozilla.org/enUS/docs/Learn/Common_questions/Web_mechanics/How_does_the_Internet_work>
2. <https://developer.mozilla.org/enUS/docs/Learn/Common_questions/Web_mechanics/Pages_sites_servers_and_search_engines>
3. <https://developer.mozilla.org/enUS/docs/Learn/Common_questions/Web_mechanics/What_is_a_domain_name>
4. <https://developer.mozilla.org/enUS/docs/Learn/Getting_started_with_the_web/HTML_basics>
5. <https://developer.mozilla.org/enUS/docs/Learn/Getting_started_with_the_web/CSS_basics>
6. <https://www.w3schools.com/html/html_elements.asp>