

**AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING**  
**DEPARTMENT OF INFORMATION TECHNOLOGY**  
**SEMESTER – V**  
**IT8501 – WEB TECHNOLOGY**



# **UNIT I WEB SITE BASICS AND HTML**





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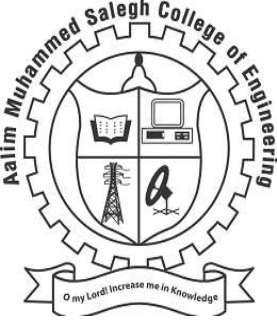
**UNIT I WEB SITE BASICS AND HTML**



# SYLLABUS

- **UNIT I WEB SITE BASICS AND HTML**

- Web Essentials: Clients, Servers, and Communication. The Internet - Basic Internet Protocols - The World Wide Web - HTTP request message-response message - Web Clients Web Servers. Markup Languages: XHTML. An Introduction to HTML History - Versions - Basic XHTML Syntax and Semantics - Some Fundamental HTML Elements - Relative URLs-Lists-tables-Frames-Forms- HTML5.0.
- **Total Topics: 18**



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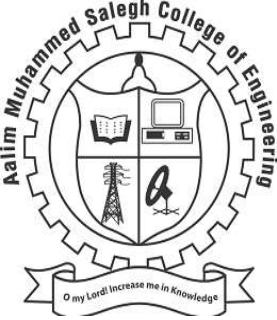


## **SYLLABUS**

### **UNIT I WEB SITE BASICS AND HTML**

1. Web Essentials: Clients, Servers, and Communication
2. The Internet
3. Basic Internet Protocols
4. The World Wide Web
5. HTTP request message
6. response message
7. Web Clients Web Servers

8. Markup Languages: XHTML
9. An Introduction to HTML History
10. Versions
11. Basic XHTML Syntax and Semantics
12. Some Fundamental HTML Elements
13. Relative URLs
14. Lists
15. Tables
16. Frames
17. Forms
18. HTML5.0



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## **SYLLABUS**

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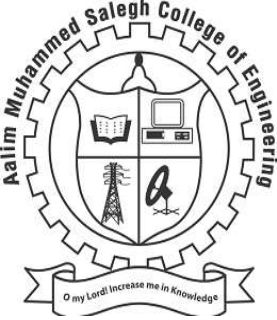
#### **A. WEB ENVIRONMENT**

1. Web Essentials: Clients, Servers, and Communication
2. The Internet
3. Basic Internet Protocols
4. The World Wide Web
5. HTTP request message
6. response message
7. Web Clients Web Servers

#### **B. WEB SITE DEVELOPMENT**

8. Markup Languages: XHTML
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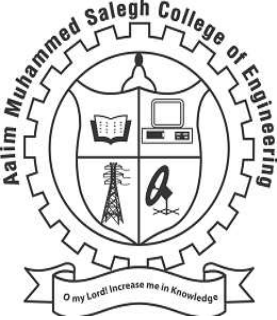
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# INTRODUCTION TO WEB TECHNOLOGY

WEB TECHNOLOGY





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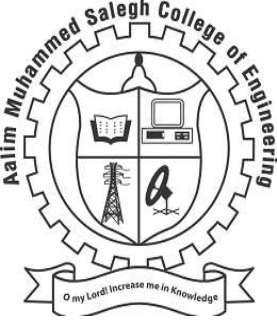
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# Introduction to Web Development

- The trade of IT and Computer Science (CSE) is basically categorized into three sub-domains
  1. Software engineering,
  2. Networking and
  3. website development.
- However former two are also very interesting and fruitful as web development is more important and significant than Web Development.
- Web Development and Designing is third wheel in computer technologies and it can't be under-estimated.



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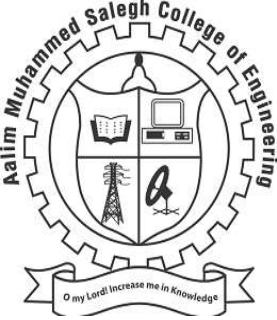
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# Introduction to Web Development

- Web Development is not limited to websites.
  - You can create browsers, plugins, games, e-commerce and SOFTWARES too.
- Web Development can get you jobs in
  1. high-reputed companies like Facebook, Microsoft, Google etc.
  2. or you could always work as a high-profiled freelancer.



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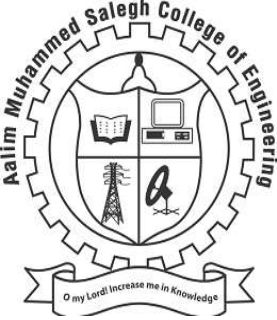


# Basic Road Map to Web Development

## Learn Web Technologies

- **Step 1** – Learn **HTML5** it seem, HTML5 is certainly is the extended functional form of HTML4 with many more features than the former version
- With HTML5, you can not only prepare basic webpage structure easily, but can store variables on page itself, create games on it, don't need to rely on flash anymore to run your videos and animation
- can even create full functioning blog, without even touching server side languages like PHP.





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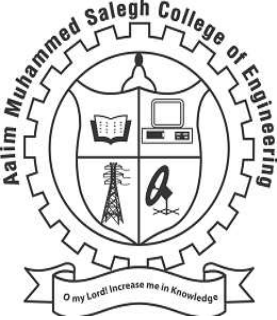
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## Basic Road Map to Web Development

- **Step 2 – Learn CSS**
- CSS ( Cascading Style Sheet adds colours to rainbows& surely CSS does.
- With the application of CSS, you can define your web in a colourful and smooth way.
- Like HTML, CSS has grew into CSS3, with which, you can also add transitions to pages, scrolls and even mouse hovers.
- You can even make your site elegant or flashy by using just few lines of CSS3.



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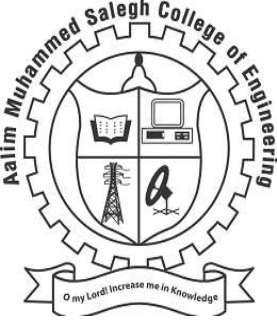
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## Basic Road Map to Web Development

- **Step 3 – Apply features of HTML5 & CSS 3 together.**
- With HTML5 and CSS3 , either design your own pages or templates or can work into responsive layouts that can adapt any device's screen.



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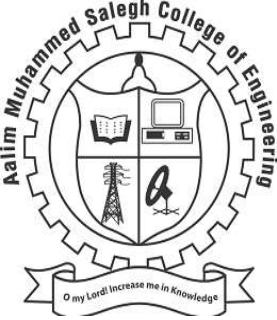
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## Basic Road Map to Web Development

- **Step 4 – Learn and apply features of HTML5 & JavaScript**
- You can actually make those buttons useful in some tasks.
- JavaScript, the best work-around coding language for webpages is versatile, flexible and platform independent.
- With java scripts, real development starts.
- You create variables, assign them some values, and pass them as arguments in some function to finally get returned some values or actions (e.g. page loading, redirecting).
- JavaScript is easy to learn but hard to master, and working of functions and variables. JavaScript has many children like node.js and it requires a lot of reading and practice to actually make some use in creating complex web applications.



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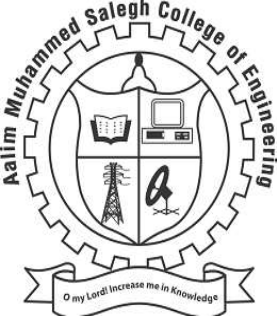
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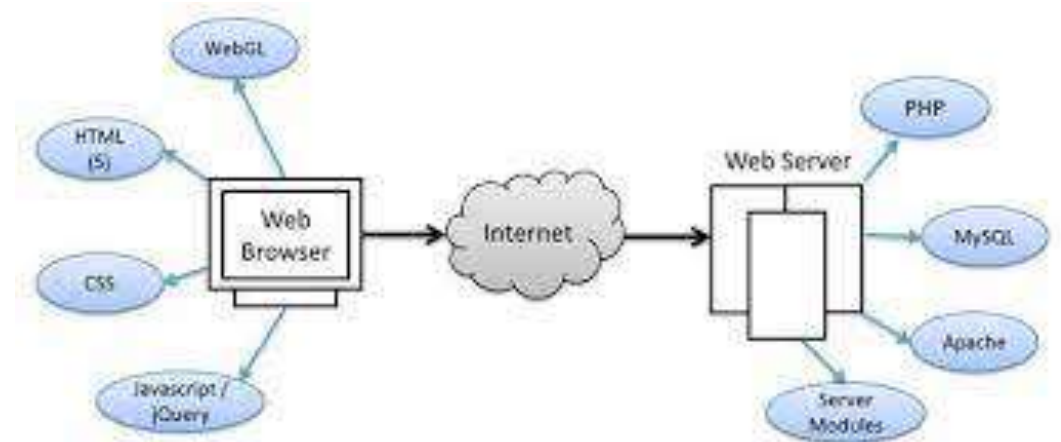
## Basic Road Map to Web Development

- **Step 5 – Learn and apply features of HTML5 & PHP + MySQL**
  - PHP is a server-side language, and it handles all the real work and completely relies on your internet connection.
  - Designing on database can be a real pain if you're not organized and well-planned.
  - MySQL, with the combination of PHP on Apache server (better than IIS) provides a perfect frame to build webpages and if you want to practice on localhost, try WAMP server.

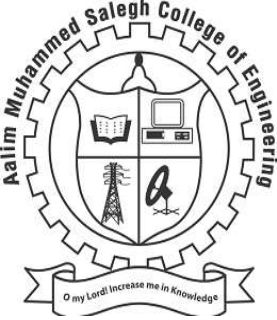


# What are Web technologies?

- Web technology refers to the means by which computers communicate with each other using markup languages and multimedia packages.
- It gives us a way to interact with hosted information, like websites. Web technology involves the use of hypertext markup language (HTML) and cascading style sheets (CSS).







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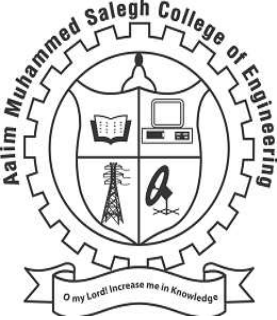
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## What are Web technologies?

- The methods by which computers communicate with each other through the use of markup languages and multimedia packages is known as **web technology**.
- In the past few decades, web technology has undergone a dramatic transition, from a few marked up web pages to the ability to do very specific work on a network without interruption.



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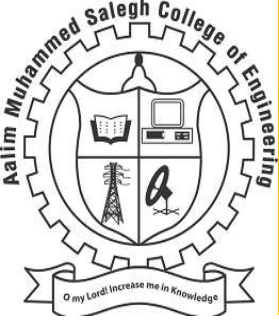


# What is Web Development Environment?

- **Development environments**

A development environment is **where most of the technical programming takes place.**

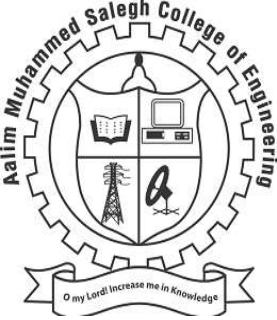
- These environments are used by developers to build applications and write their code, from platform-specific native apps to progressive web-apps and cross-platform apps.



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## **A. WEB ENVIRONMENT**



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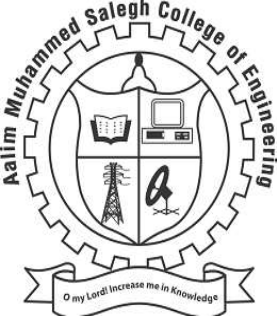
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## What is Web Development Environment?

- Development environment is a collection of **procedures and tools for developing, testing and debugging an application or program.**
- Once the application has been tested and the developer feels that the code is working fine, the application then moves to the staging server.



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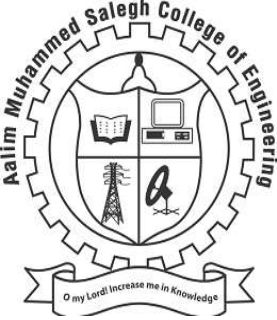
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# What is Web Development Environment?

- *A web development environment*, which is also a collection of software. It usually includes the following:
  1. A web server
  2. A relational database management system (RDBMS) to run on the web server
  3. A server-side programming language
  4. An interface for controlling (starting, stopping, and so on) the web server
  5. An interface for accessing and manipulating the RDBMS





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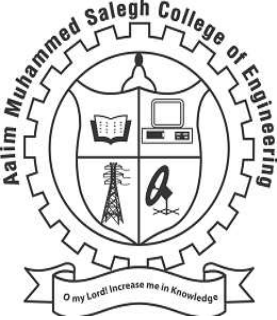
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## What is Web ?

- The World Wide Web, commonly known as the Web, is an information system where documents and other web resources are identified by Uniform Resource Locators, which may be interlinked by hyperlinks, and are accessible over the Internet.

[Wikipedia.](https://en.wikipedia.org/wiki/World_Wide_Web)



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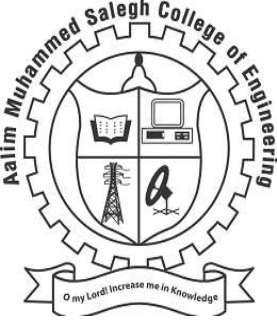
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# What is WWW ( World Wide Web) ?

- The **World Wide Web** is a system for displaying text, graphics, and audio retrieved over internet.
- An information space where documents and other web resources are identified by Uniform Resource Locators (URLs), interlinked by hypertext links, and can be accessed via the Internet.
- It is commonly referred to as WWW, W3, or the **Web**—is an interconnected system of public webpages accessible through the **Internet**.





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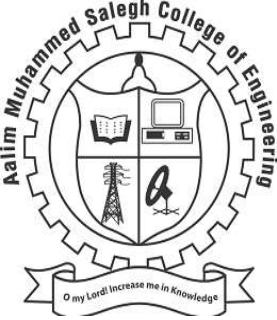
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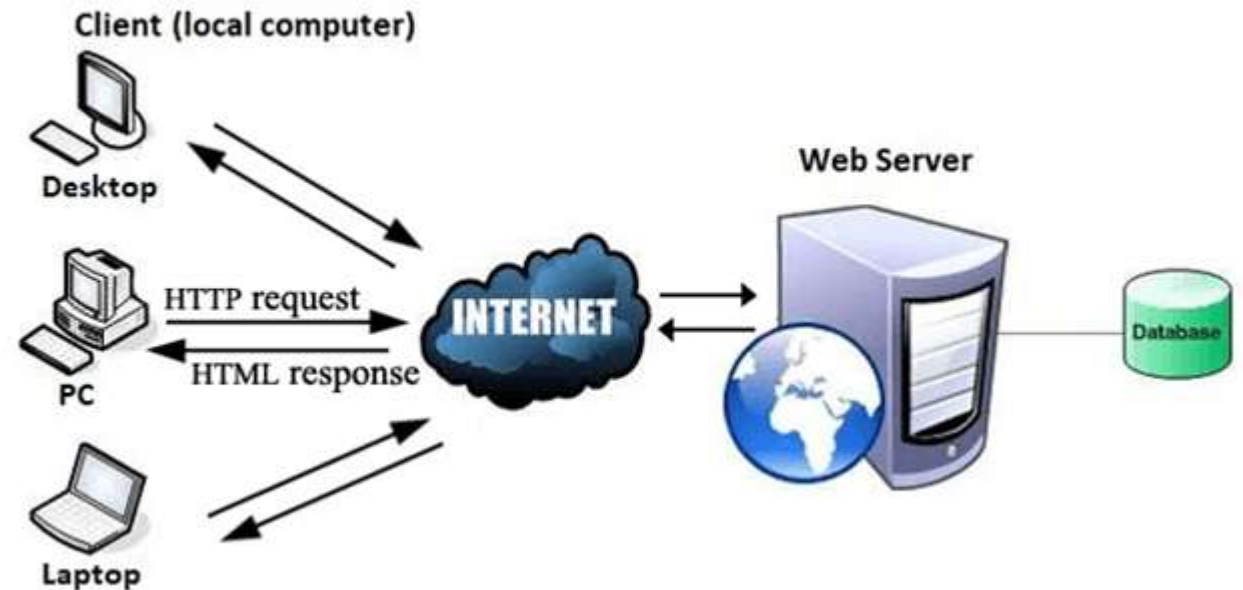
## What is WWW ( World Wide Web) ?

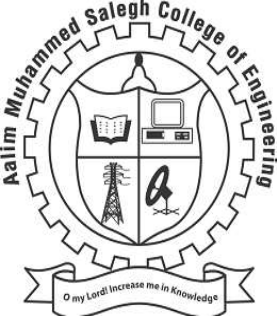
- It enables the retrieval and display of text and media to your computer.
- This system would allow individuals to link their documents together to create a **web** of interconnected documents.
- Berners Lee says World Wide Web was settled on because it: ... Interestingly the first browser, also invented by Berners-Lee, was called the WorldWideWeb (no spaces).



# What is WWW ( World Wide Web) ?

- An **example** of the World Wide Web is the Internet.
- A hypertext document with its corresponding text and hyperlinks is written in HyperText Markup Language (HTML) and is assigned an online address called a Uniform Resource Locator (URL).





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# What is Webpage and Website ?

- **Web Page: A document that is suitable for the web browsers.**
  - A webpage is a single HTML document
- **A website is a collection of related WebPages**
- Designing a good website requires more than just putting together a few pages.
- **A modern web page contains three components:**
  1. HTML Content
  2. Style Information
  3. Scripting Language

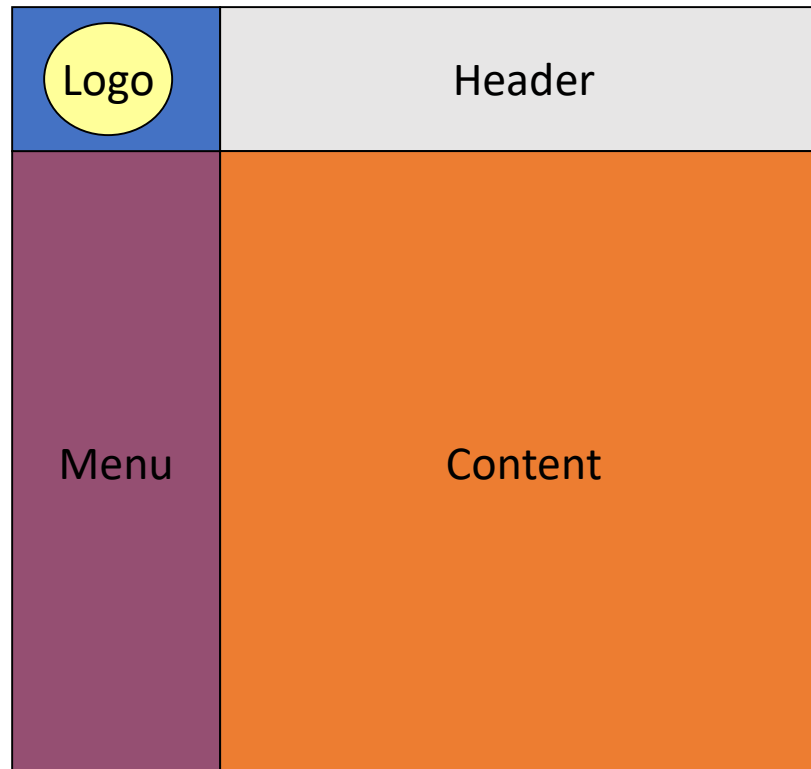


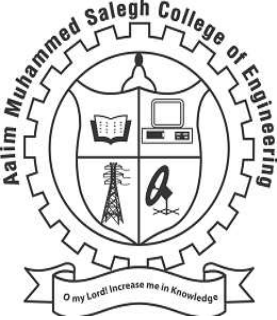


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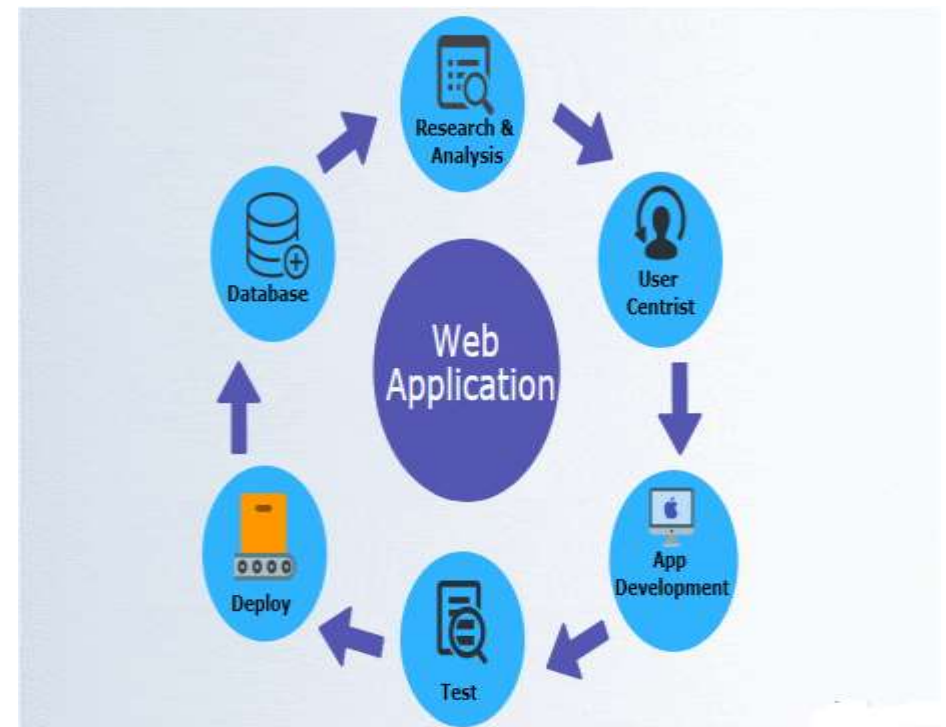
## Areas of a Web Page

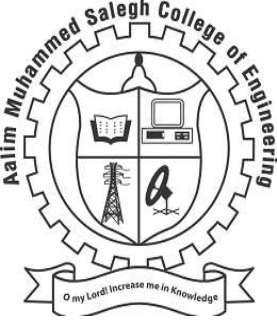




# What is Web Application?

- Web Application, or Web App, is
  - a collection of elements on a Web site that performs tasks over the internet.
- Web applications are designed to run on Web servers (such as Internet Information Services or Apache) and use Web browsers such as Microsoft Internet Explorer or Chrome as the user interface.
- Web applications are typically client/server applications.
  - For example, the ordering mechanism on an electronic commerce site is a Web application.





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## How a Web Application works?

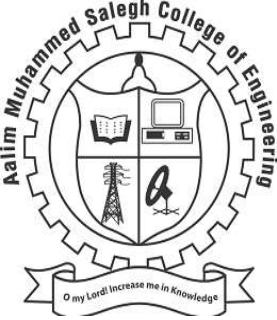
**Step 1:** The user accesses a web application via a web browser or mobile application, triggering a request to the web server over the Internet.

- Note that there may be security measures (i.e. firewalls or cloud access security brokers) and load balancers in.

**Step 2:** The web server forwards the request to the web application server.

**Step 3:** The web application server performs the requested task – such as querying the database or processing the data

- Then generates the results of the requested data.



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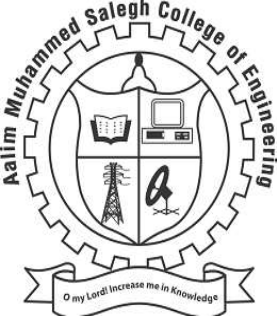
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## Examples of Web Applications

- Nowadays, almost every web site performs some kind of programmatic task that we call web application.
- Some strong examples are:
  - Facebook.com
  - Booking.com
  - Gmail.com
  - LinkedIn.com
  - Amazon.com



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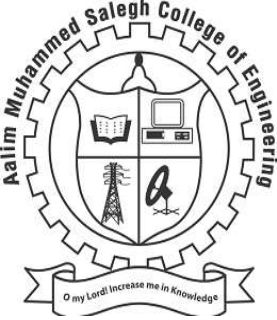


# Advantages & Disadvantages of Web Applications

- **Advantages**

1. Web applications run “inside” a [browser](#); no complex installation is needed.
2. Web applications require very little disk space (or computing power) on the client. All the client does is display the data.
3. Web applications solve some of the “compatibility issues” (Windows, Mac, Linux); all that is needed is a browser.
4. In many cases, the data is stored remotely too. As with other cloud computing, this can allow easy communication and cooperation.
5. Help for communication and mail

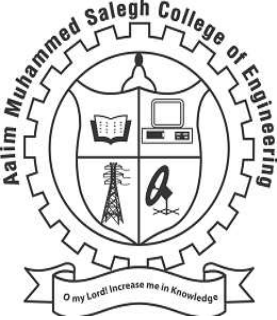




# Advantages & Disadvantages of Web Applications

## • Disadvantages

1. Because they run inside a [web browser](#), most web applications “look” very different to regular programs.
  - The user experience or ease of use is different and some may dislike it.
2. Web applications need to be coded so they follow standards.
  - Any browser that also follows the standard can be used. Small changes in a given browser’s implementation of a standard may prevent that browser from using the web application.
3. Web applications need a connection to the server where the application runs, all the time.
  - The connection may need a certain [bandwidth](#). Without an adequate connection, the application may not become usable; in the worst case, data may be lost.



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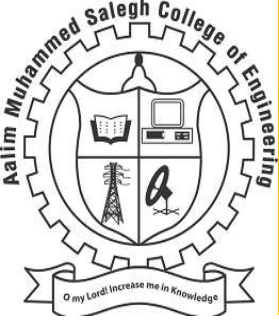
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## Advantages & Disadvantages of Web Applications

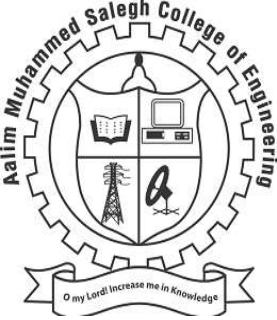
4. Many applications are dependent on the server that hosts them. When the server is switched off, or the company goes bust, the application is no longer usable.
  - Traditional applications continue to work.
5. The company offering the web application has complete control over it.
  - This also means that they may launch a new version when they want to; the option to “skip” a less popular version does not exist.
6. In many cases, the data is stored remotely too.
  - It may not be possible to export the data so that it can be used with another application.
7. The company can theoretically track anything the users do.
  - This can cause privacy problems.



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## **B. WEB DEVELOPMENT**



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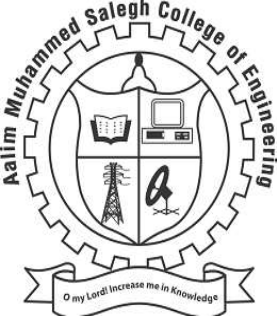


# What is Web Development ?

- Web development is the work involved in developing a Web site for the Internet or an intranet.
- Web development can range from developing a simple single static page of plain text to complex web applications, electronic businesses, and social network services.

[Wikipedia](https://en.wikipedia.org/wiki/Web_development)





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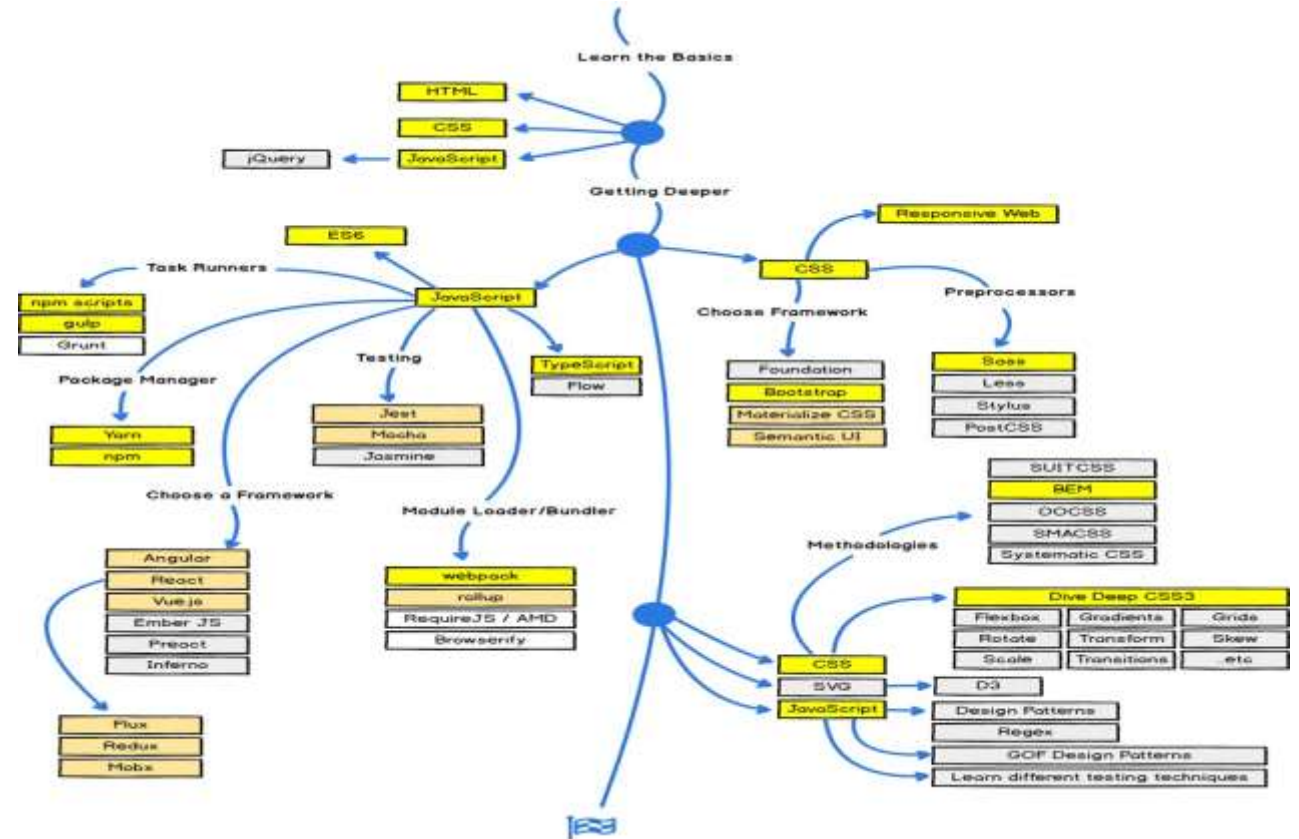
# What is Web Development ?

- **Web Development Roadmaps :-**
- Every **Web Developer** must have a basic understanding of **HTML, CSS, and JavaScript**.
- **Responsive Web Design** is used in all types of modern web development.
- **ECMAScript 5** (JavaScript 5) is supported in all modern browsers. Take a good look at it, especially the new array functions.

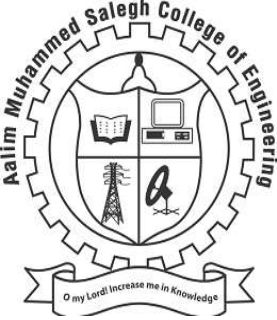
# What is Web Development ?

## • Learn the Basics

- Every **Web Developer** must have a basic understanding of **HTML**, **CSS**, and **JavaScript**.
- **Responsive Web Design** is used in all types of modern web development.
- **ECMAScript 5** (JavaScript 5) is supported in all modern browsers. Take a good look at it, especially the new array functions.



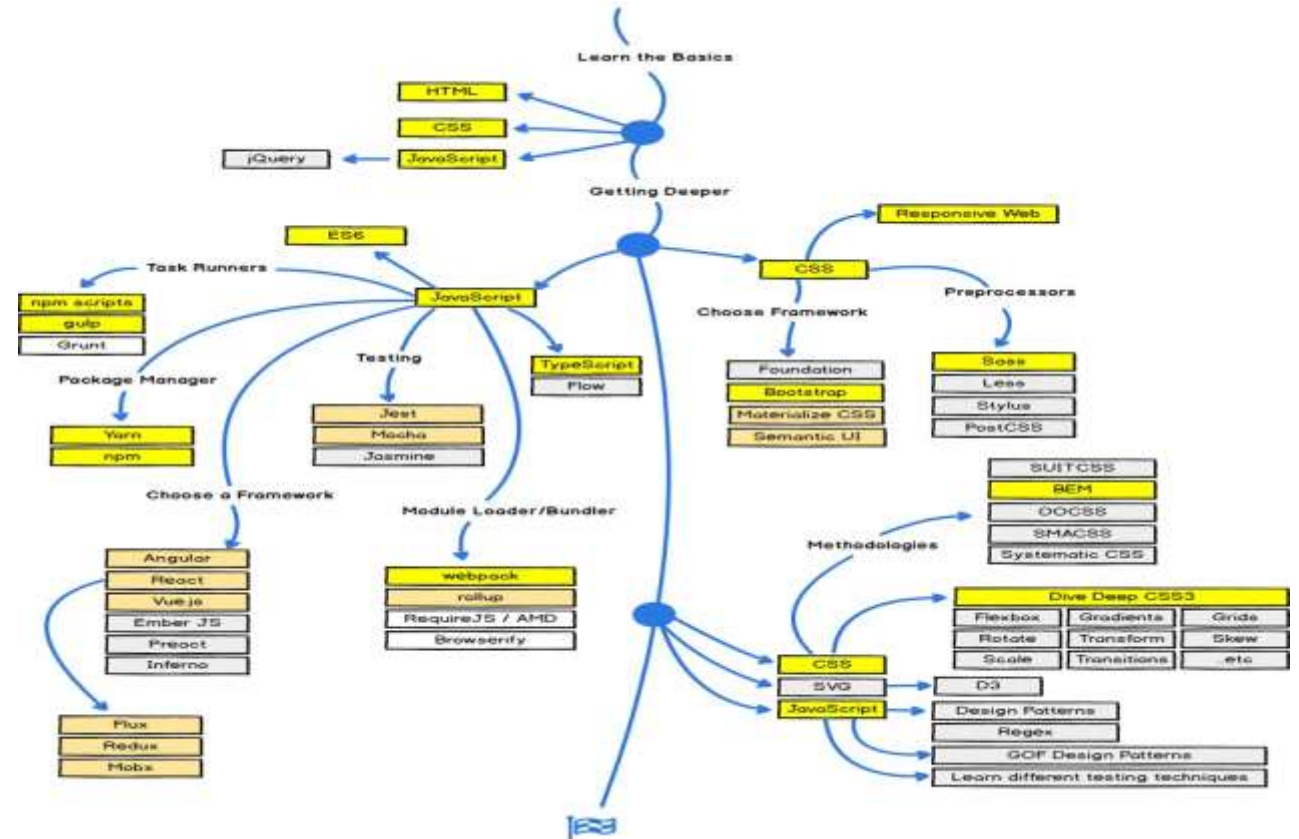




# What is Web Development ?

## • Dig Deeper

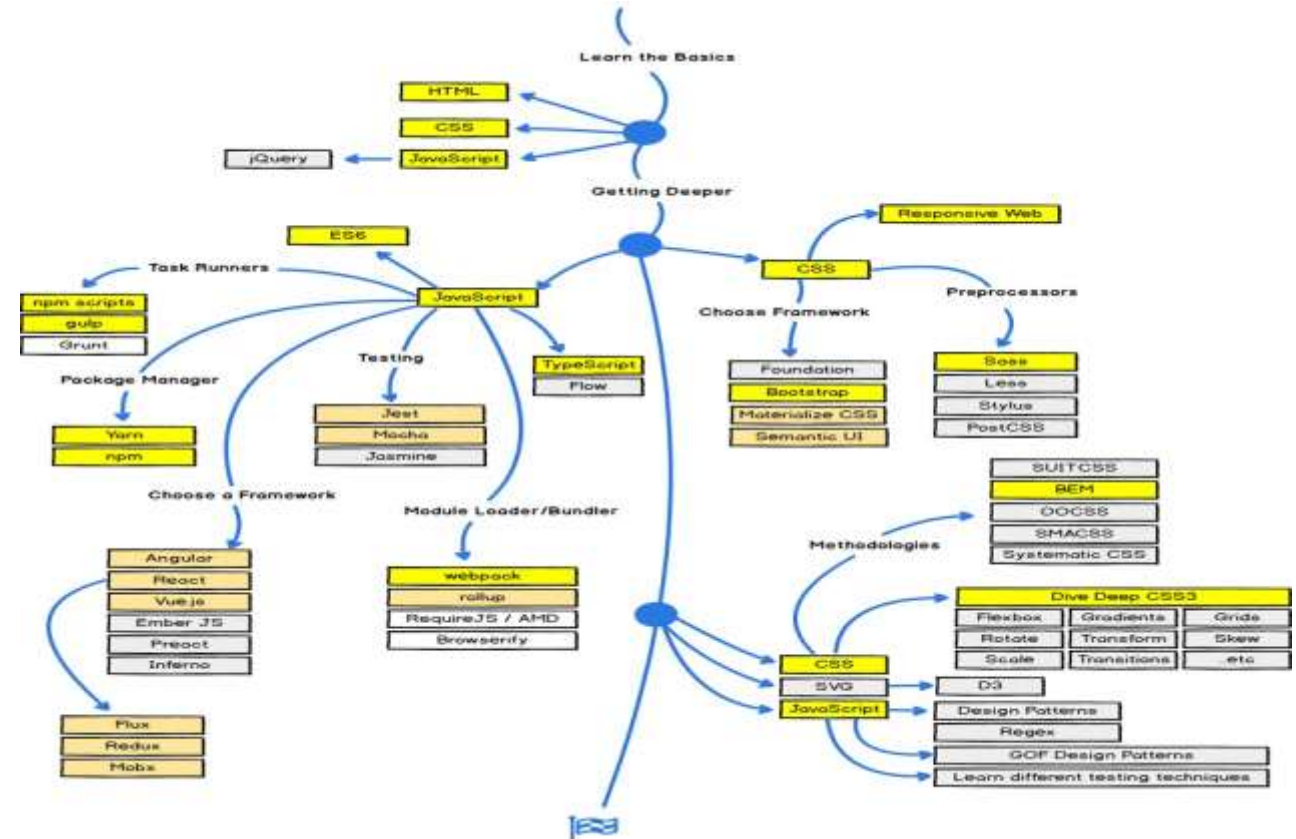
- When you feel comfortable with **HTML** and **CSS**, it is time to dig deeper.
- You should learn how to use **Maps**, **Fonts** and **Icons** in HTML.
- On the **JavaScript** side, you should learn how to access the **HTML DOM**.
- You should also learn how to use **AJAX** and **JSON** for making server requests.

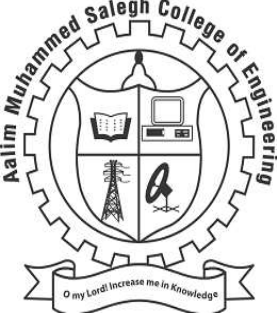


# What is Web Development ?

## • Choose Frameworks

- Now it is time to look at some **Frameworks**.
- On the **CSS** side you should choose a framework for responsive web design: **Bootstrap** / **Material Design** / **W3.CSS**
- On the **JavaScript** side you should learn at least one modern framework: **React.js** / **Angular.js** / **Vue.js** / **W3.JS**
- Maybe the popularity of **jQuery** has passed the top, but it is still the most used JavaScript framework.



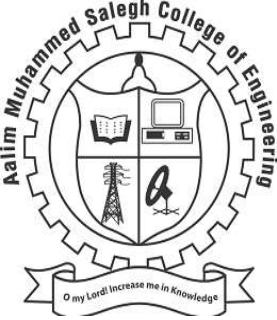


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# Web Site / Web Applications development tools





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# What is Web Page Layout ?

- Layout of web pages is very important
- Poor layout makes for -
  - Difficult navigation
  - Hard to locate information on page
  - Visually unappealing





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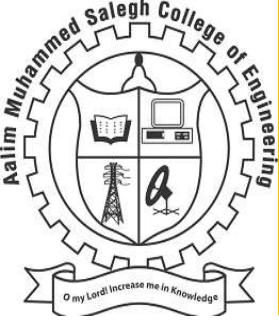
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## Simple Web Page Layout

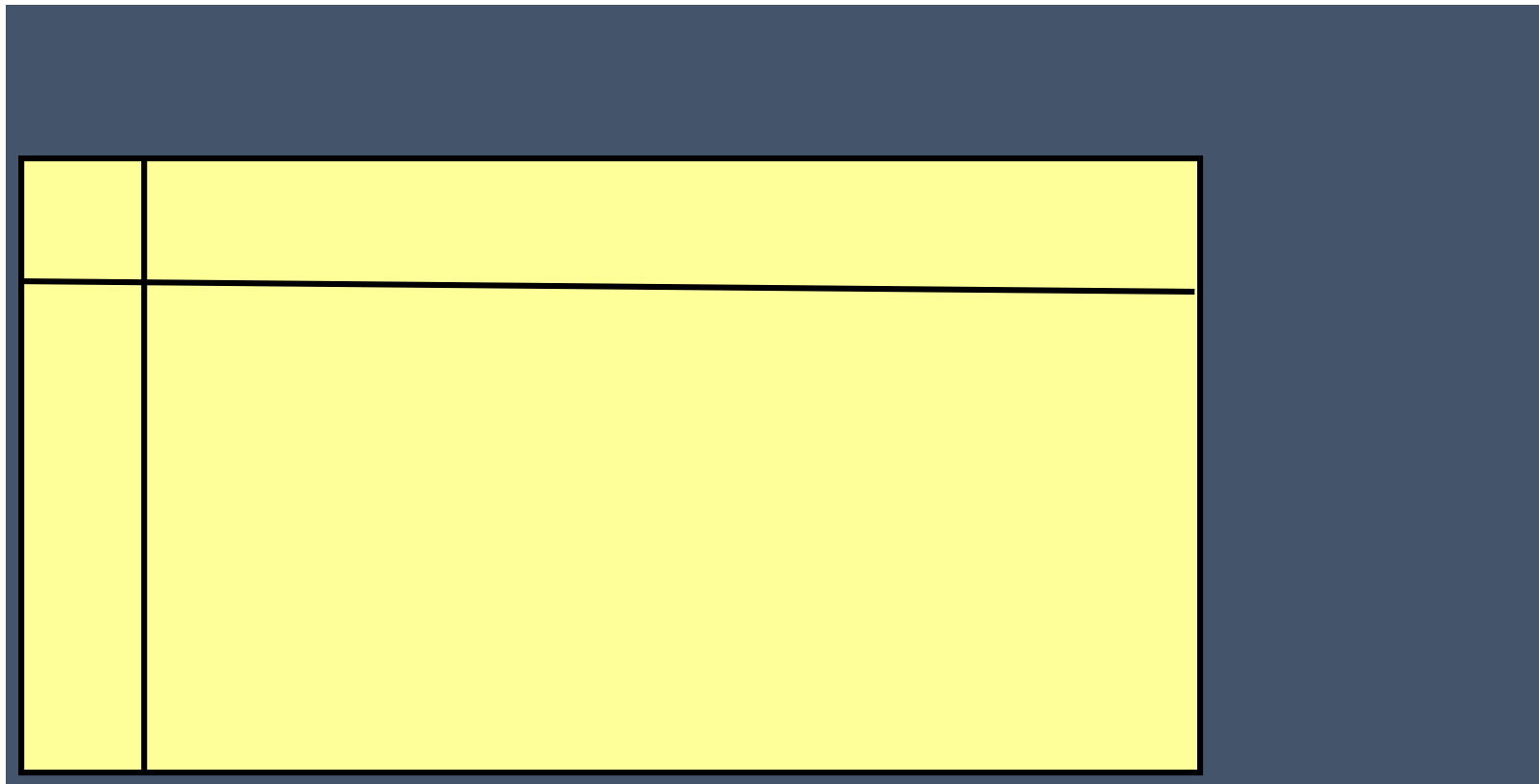
- Use tables to lay out your pages!
- Make the table borders invisible
- A 2x2 table works well.



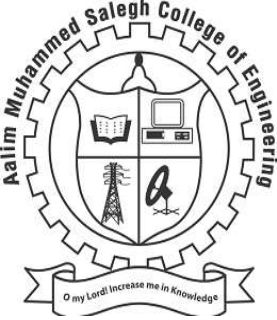
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## WEB PAGE LAYOUT







## What is A 2 x 2 Layout ?



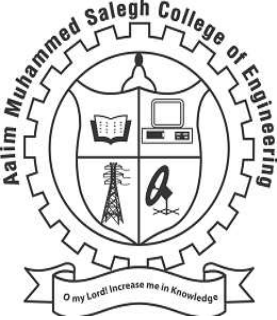
### *Project Puffin* *What is Project Puffin?*

The National Audubon Society started Project Puffin in 1973 in an effort to learn how to restore puffins to historic nesting islands in the Gulf of Maine. At that time, literally all the puffin eggs in Maine were in two baskets - [Matinicus Rock](#) and Machias Seal Island. Although puffins are not an endangered species (they are abundant in Newfoundland, Iceland, and Britain), they are rare in Maine. The two surviving colonies were very vulnerable to a disaster such as an oil spill, or accidental establishment of predators such as rats or mink.

The Project began with an attempt to restore puffins to [Eastern Egg Rock](#) in Muscongus Bay, about six miles east of Pemaquid Point. [Puffins had nested there until the early 1880's when hunters took the last survivors of this once-flourishing colony.](#) The restoration of puffins to [Eastern Egg Rock](#) is based on the fact that young puffins usually return to breed on the same island where they hatched.



Young puffins from Great Island, Newfoundland (where about 160,000 pairs nest) were transplanted to Eastern Egg Rock when they were about 10 - 14 days old. The young puffins were then reared in artificial sod burrows for about one month. Audubon biologists placed handfuls of vitamin-fortified fish in their burrows each day and, in effect, took the place of parent puffins. As the young puffins reached fledging age (the time when birds leave the nest), they



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## Table within a table

**Microsoft** All Products | Support | Search | Microsoft.com Guide

Microsoft Home | MSN Home | Subscribe | Manage Your Profile

Search for:  Go

[Advanced Search](#)

**Product Families**

- Windows
- Office
- Business Solutions
- Servers
- Developer Tools
- Games and Xbox
- MSN Services
- All Products

**Resources**

- Support
- Downloads
- Windows Update
- Office Update
- Learning Tools
- Communities
- Security

**Information For**

- Home Users
- IT Professionals (TechNet)

**TechEd 2003 is almost here**

Build your skills at Microsoft's premier training conference for technology professionals. Register by April 11 and save.

**home & entertainment**

- [Get breaking MSNBC news updates on your computer](#)
- [Turn your photos into a coffee-table book](#)
- [Download spring clip art to add to cards and banners](#)

**technical resources**

- [How to migrate to a Windows Server environment](#)
- [Get a personalized learning plan for Windows Server 2003](#)
- [Build a research library with Office 2003 and Web APIs](#)

**business agility**

- [Upgrading to Windows Server 2003 from Windows NT Server](#)
- [Want a winning distribution strategy? Try these 3 steps](#)
- [Competitive analysis: Save \\$3.2 million with SQL Server](#)

**today's news**

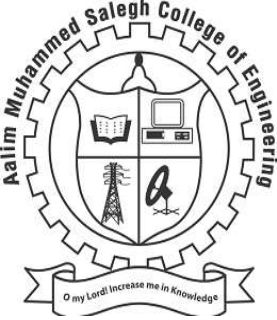
- [Join a chat April 10: InfoPath solutions](#)
- [Spread out your software payments annually with Open Value License](#)
- [Microsoft security training offer: Enroll now and save](#)
- [Attend a free Windows Server 2003 launch event](#)

[More News ...](#)

**downloads**

- [Windows XP Bliss screen saver](#)
- [Internet Explorer 6, latest version \(SP1\)](#)
- [Software Update Services with Service Pack 1](#)





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## The outer table

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**Product Families**

- Windows
- Office
- Business Solutions
- Servers
- Developer Tools
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- All Products

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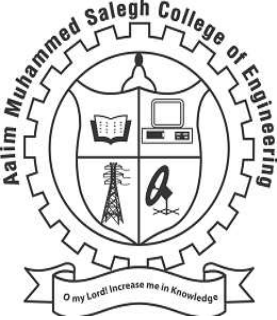
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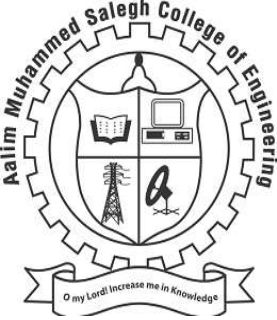


# The inner table

The screenshot shows the Microsoft website interface from 2003. The layout is divided into several sections:

- Header:** Microsoft logo, navigation links (All Products, Support, Search, Microsoft.com Guide), and user links (Subscribe, Manage Your Profile).
- Search:** A search bar with a "Go" button and a link to "Advanced Search".
- Product Families:** A list of product categories including Windows, Office, Business Solutions, Servers, Developer Tools, Games and Xbox, MSN Services, and All Products.
- Resources:** A list of resource categories including Support, Downloads, Windows Update, Office Update, Learning Tools, Communities, and Security.
- Information For:** A list of user types including Home Users and IT Professionals (TechNet).
- TechEd 2003:** A large banner for the TechEd 2003 conference, featuring a photo of a person jumping and text about building skills at Microsoft's premier training conference.
- home & entertainment:** A section with a photo of a couple and links to get breaking MSNBC news updates, turn photos into a coffee-table book, and download spring clip art.
- technical resources:** A section with a photo of a computer and links to how to migrate to a Windows Server environment, get a personalized learning plan for Windows Server 2003, and build a research library with Office 2003 and Web APIs.
- business agility:** A section with a photo of a man and links to upgrading to Windows Server 2003 from Windows NT Server, want a winning distribution strategy? Try these 3 steps, and competitive analysis: Save \$3.2 million with SQL Server.
- today's news:** A section with a list of news items including joining a chat, spreading out software payments, Microsoft security training offer, and attending a free Windows Server 2003 launch event.
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## Centered with three columns



*Enriching MSU's Future*

# CAMPAIGN FOR MSU UNIVERSITY DEVELOPMENT

## The Campaign for MSU News

**MAKING A GIFT  
GIVE NOW**  
MSU Donor Societies  
Guide to Making Your Gift  
Reasons for Giving  
Bequest Language  
Donor Bill of Rights

**FUNDRAISING CAMPAIGNS**  
The Campaign for MSU  
The Annual Fund  
The Big Ten Challenge  
Corporate In-House  
Faculty/Staff Giving  
Senior Class Gift  
Parents Fund

**CURRENT NEWS**  
[Developments Newsletter](#)  
[Partners Newsletter](#)  
[Annual Fund Newsletter](#)  
[Faculty/Staff Newsletter](#)  
[MSU Press Releases](#)  
[MSU Facts in Brief](#)

**CONTACT US**  
[Organizational Chart](#)  
[E-Mail Listing](#)

**UNIVERSITY LINKS**  
[College/Unit Links](#)  
[MSU Homepage](#)  
[MSU Alumni Association](#)  
[Athletics](#)  
[MSU Today](#)

**Event Pictures**


**UNIVERSITY  
DEVELOPMENT  
HOMEPAGE**

**MICHIGAN STATE  
UNIVERSITY**

**MSU headlines provided by MSU today**

- [Levels of On-line Giving Rise Dramatically](#)
- [Major Donors Honored and Endowed Positions Filled](#)
- [Foundations Join Forces To Improve Teacher Education](#)

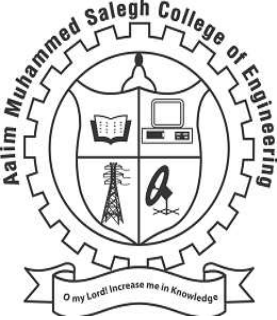
[MSU programs get high marks](#)  
[Students and administration upset with behavior of a few](#)  
[FACT Coalition announces grant awards](#)  
[Students receive awards for making a difference in diversity](#)  
[WKAR auction features unique tables by local artists](#)



**THE CAMPAIGN FOR MSU**

\$1.2 B
\$1.1 B
\$1.0 B
\$900 M
\$800 M
\$700 M
\$600 M
\$500 M
\$400 M
\$300 M
\$200 M
\$100 M
\$0

CAMPAIGN GOAL: \$1.2 Billion  
STATUS TO GOAL: \$679.5 Million



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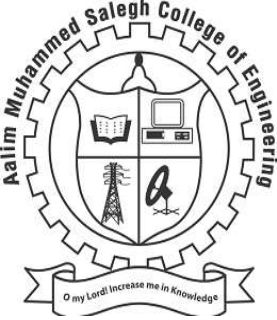
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Really complicated design!







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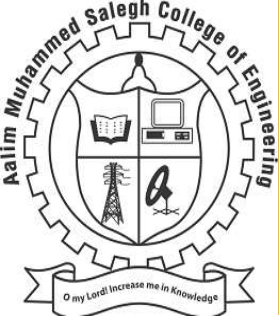
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## How Monitors and Dimensions influences Webpage Display?

- Monitor resolution affects how you should lay pages out.
- 800x600 = 50% - 760 x 420 pixels in browser window
- 1024x768 = 35%
- 640x480 = 3%\* - 595 x 360 pixels
  - \*Was 20% three years ago



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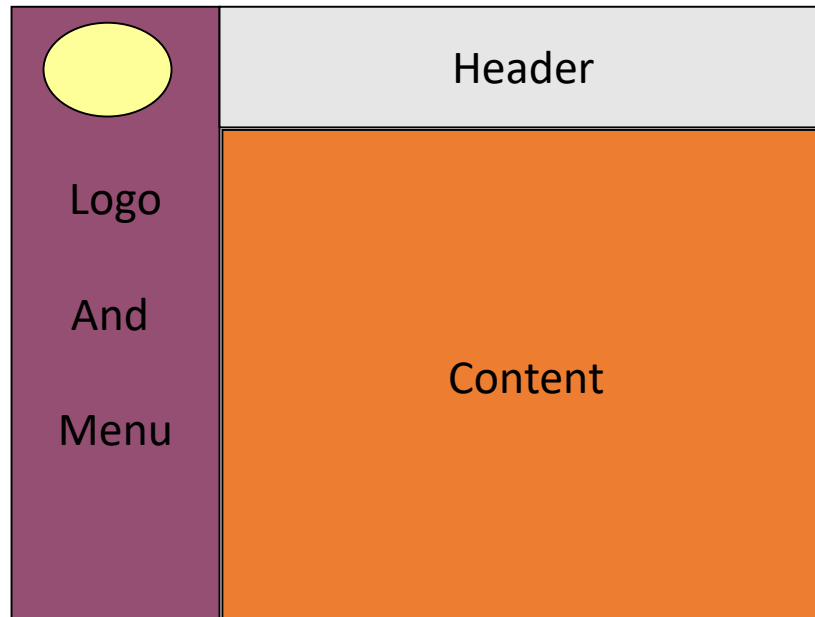


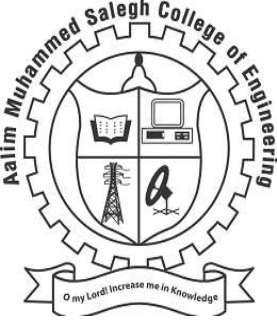
## Dimensions in a 2x2 table

Up to 760 wide\*

100-140  
wide

Up to 650 wide





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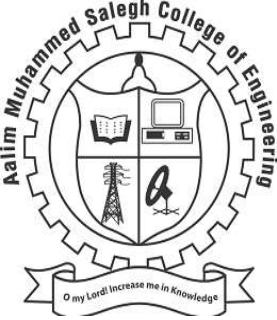
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## Page Width

- Because monitors differ (640x480, 800x600, 1024x768), pages look different.
- You can use a % width for a table, for example make it 80% of the page width.



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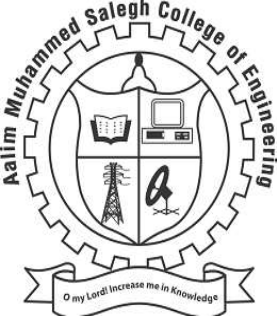
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# Splash Page

- The index.html file is called the “Splash Page”
- It is the key page—the first page visitors usually see
- Must be visually attractive, informative, and easy to navigate
- Examples:
  - [www.projectpuffin.org](http://www.projectpuffin.org)
  - [www.pmlodge.com](http://www.pmlodge.com)
  - [www.uncommonadv.com](http://www.uncommonadv.com)
  - [www.rainforestandreef.org](http://www.rainforestandreef.org)



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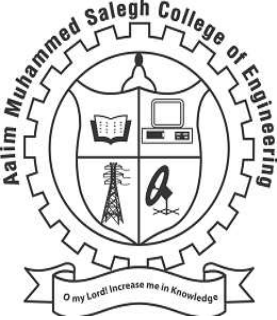
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# Organizing Information on a Web Page

- Decide what info goes on each page
  - Friends page
  - Family page
  - Personal page
  - Hobbies page



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## Good Web Communication

- Be Concise
- Limit choices – use a hierarchical structure
  - A hierarchy is a structured organization where some pages are at a higher level than others
  - Hierarchy results in a site map with multiple levels





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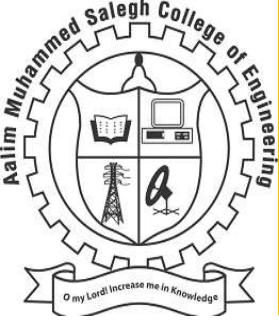
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# Site Map

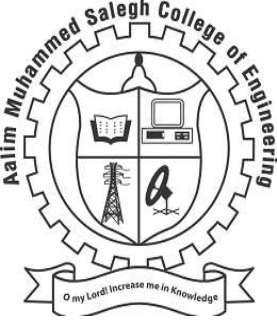
- A site map is designed to show the connections between pages
- A graphical site map uses lines to connect linked pages



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# INTRODUCTION TO WEBSITE



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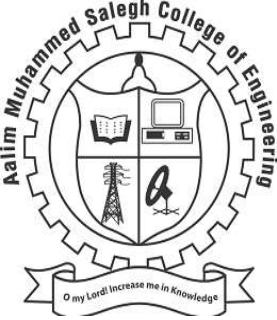
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## INTRODUCTION TO WEBSITE : What is a Web site?

- **website is a collection of WebPages.**
- **A Website is:**
  - a collection of documents written in the HTML code for an individual, a business house or any other organization.
  - a collection of individual documents and files made up of text, graphics, colors, links, and formatting that come together to create a complete user experience.
  - a collection of related network web resources such as Web pages, Multimedia contents, etc which are typically identified with a common domain name and published or hosted on at least one web server.



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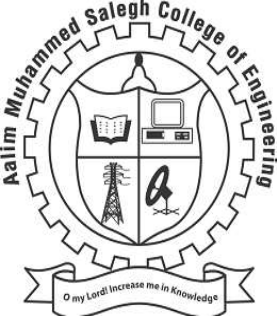
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## Example for Web sites

- Google.com
- Amazon.com
- Wikipedia.com
- Aalimec.ac.in



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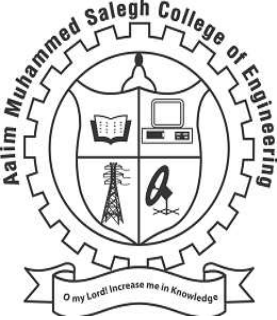
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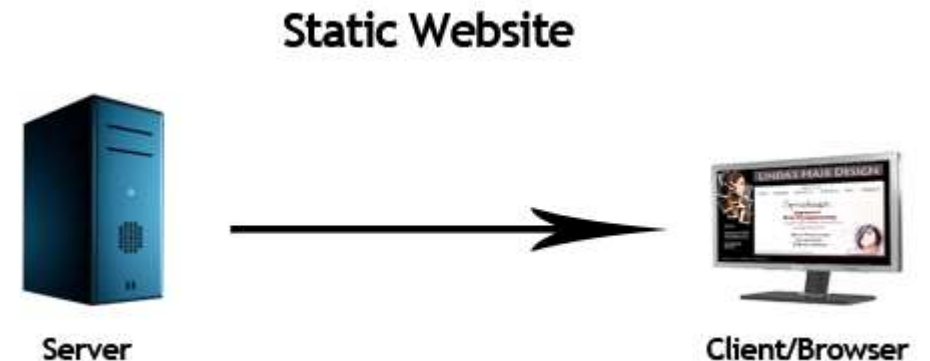
## Types of Web site

- A website is typically dedicated to some particular topic or purpose.
- Based on their functionality, there are two types of website,
  1. Static Website and
  2. Dynamic Website.
- In static website contents are not expected to change frequently whereas in dynamic website contents are changing frequently.
- Websites are also usually associated with domain names, like [www.codeschool.com](http://www.codeschool.com), that explain to your computer where all of the files that are necessary to display a website are located.

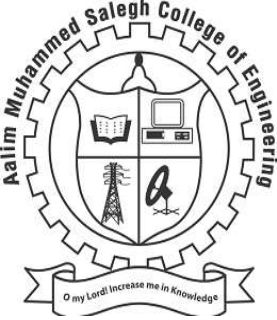


## Static Web site

- Static website is the basic type of website that is easy to create. You don't need the knowledge of web programming and database design to create a static website. Its web pages are coded in HTML.
- The codes are fixed for each page so the information contained in the page does not change and it looks like a printed page.

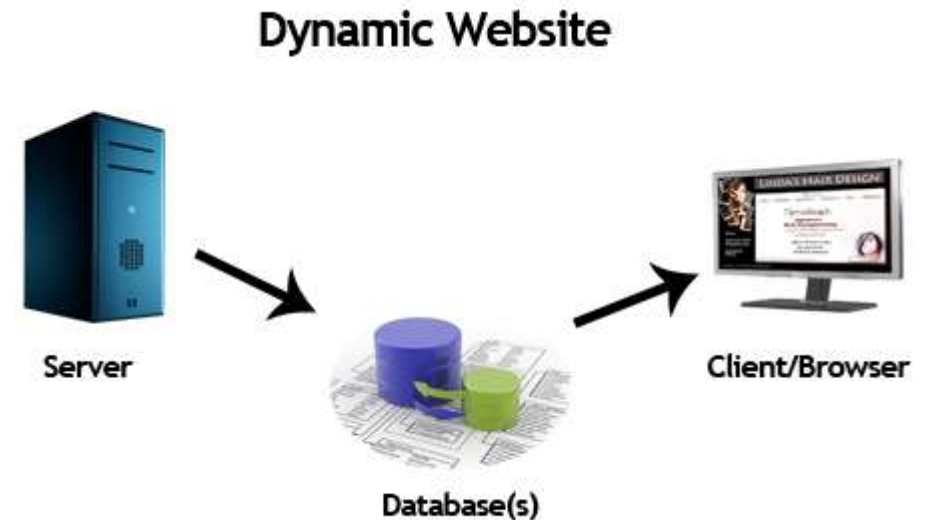


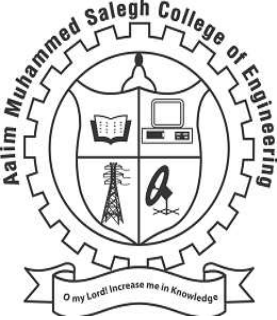




# Dynamic Web site

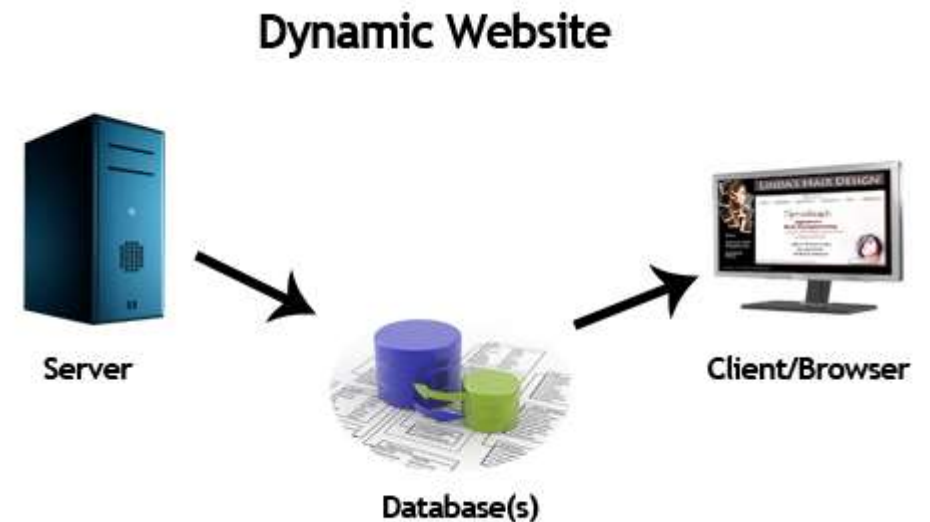
- Dynamic website is a collection of dynamic web pages whose content changes dynamically.
  - It accesses content from a database or Content Management System (CMS).
- when you alter or update the content of the database,
  - the content of the website is also altered or updated.
- Dynamic website uses:
  - *client-side scripting or server-side scripting, or both to generate dynamic content.*

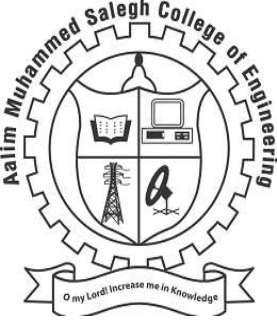




## Dynamic Web site

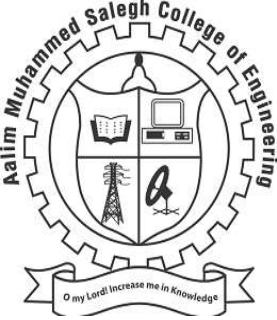
- Client side scripting generates content at the client computer on the basis of user input.
- The web browser downloads the web page from the server and processes the code within the page to render information to the user.
- **In server side scripting,**
  - the software runs on the server and processing is completed in the server then plain pages are sent to the user.





# Static vs Dynamic website

Static Website	Dynamic Website
Prebuilt content is same every time the page is loaded.	Content is generated quickly and changes regularly.
It uses the <b>HTML</b> code for developing a website.	It uses the server side languages such as <b>PHP, SERVLET, JSP, and ASP.NET</b> etc. for developing a website.
It sends exactly the same response for every request.	It may generate different HTML for each of the request.
The content is only changed when someone publishes and updates the file (sends it to the web server).	The page contains "server-side" code which allows the server to generate the unique content when the page is loaded.
Flexibility is the main advantage of static website.	Content Management System (CMS) is the main advantage of dynamic website.



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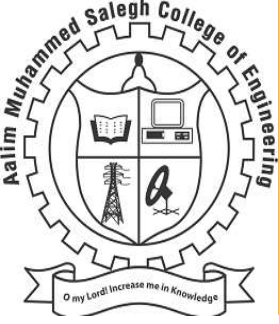
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## Website Vs Webpage

- A webpage is a document commonly written in HTML that is accessible through the internet or other networks using a web browser.
- Thus, a web page is an individual HTML document and whereas the website is an interrelated collection of web pages.



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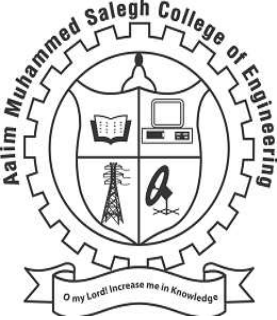
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# Components of a Website



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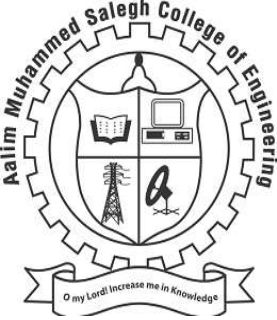
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# Components of a Website

- **The components in a webpage are the elements of a webpage contents decided by the webpage designing Languages or web authoring Tools**
- A possible set of components are listed as below:
  1. **Front-end elements** such as Text, Form controls ,etc
  2. **Navigation Structure** such as Hyperlinks with either Hypertext form or Hypermedia form.
  3. **The page layout** which suggests possible set of web elements and its preferred locations termed as TEMPLATE.
  4. **Images or Photos**
  5. **Videos Audios**





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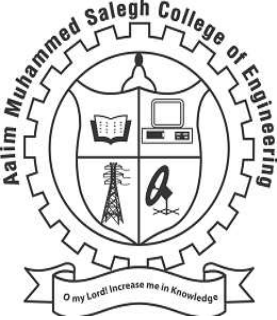
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## *Basic elements of any website*

- **Basic elements of any website are as follows:**
- **Home Page and site-wide template design** to ensure an attractive, functional and consistent appearance of your website.
- **Integrated site navigation** to provide clear and consistent access to your site's content.
- **Look and feel** of your website, including colors, text and graphics, as well as the way it functions.
- **A Logo:** to be displayed in the left corner of each page of your website.
- **A site map** to Provide a list of all pages on your site.
- **Website Search features** allowing user to search the website for content relevant to their specific interests.



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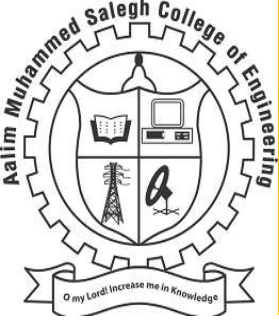
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# *Basic elements of any website*

- **About page** that includes:
  - A complete description of you and / or your company
  - Your website and / or company objectives
  - Your name, address, phone numbers and e-mail addresses
- **Feedback:** that facilitates the customers to ask some queries about your Products and Services.
- **A domain name:** Your 'address' on the internet, what people type into their browser to find you. You choose a word or phrase (Example:- mywebsite) and an extension (Example:- .com, .net, .edu), your domain name could be mywebsite.com.
- **Web Hosting:** The physical place your website resides; includes the computer (called a server) as well as the connection to the Internet and the technology that makes your website work.
- **Copyright:** Displaying your copyright information at the bottom of each page. Your copyright might look like this: **Copyright @ Year CompanyName**



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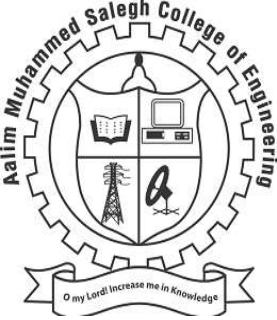
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# Web Development Languages and tools



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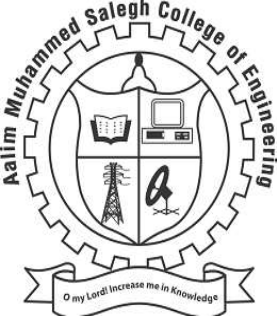
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# **Web Development Languages and tools**

- The web pages are written for web browsers.
- The web languages are common evolved due to past experience with new features existence.



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# **Web Development Languages and tools**

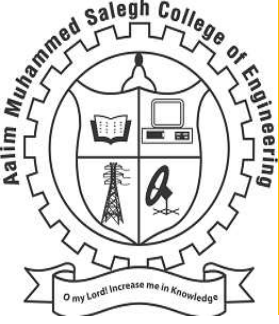
- the web pages or a website are / is designed using:

## **Languages**

- -HTML (HyperText Markup Language)
- PHP
- -Java script
- VBScript , Etc

## **Tools**

- Bootstrap
- Wordpress
- Dreamweaver , Etc

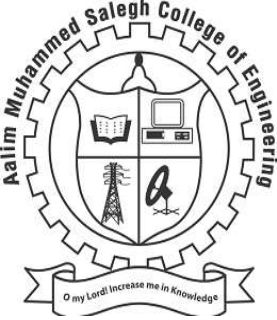


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# Website Planning





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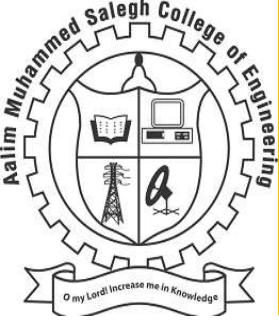
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# **Website Planning**

- Planning is the most important part of building a website. Before designing a website, it is necessary to do proper planning as we do in the case of building a house.
- If you start building your house without giving a thought of planning, the house may end up into an uncomfortable dwelling. Therefore, for building a good website proper planning is required.



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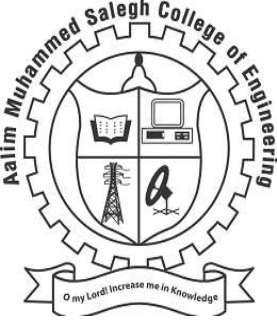
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# Basic steps in planning a website

- 1. Define your target audience**
- 2. Organize your concepts and materials**
- 3. Create a directory structure (also called site map)**
- 4. Create a sketch of the pages you intend to create**
- 5. Design and refine the look and feel of the site**



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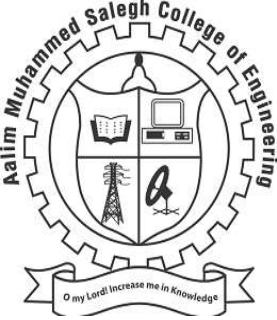
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## Step 1: Define your target audience

- Your site should facilitate the information or services to visitors the way they are looking for.
- The keys to successfully communicating with your audience are first to identify who they are and then anticipate their reaction to the various elements of your web site.
- You can tailor almost every aspect of your web site to your target audience - from the way you organize information to the kinds of fonts and images you use.
- **You need to consider the following points for meeting the above said objectives.**
- The viewer's background and previous experience
- Their interest and tastes
- The reason why they are visiting your site
- What is their general age



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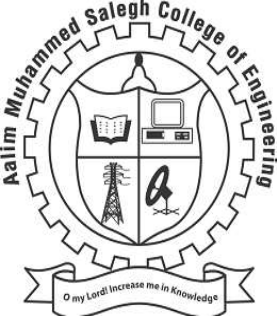
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## 2. Organize your concepts and materials

- You should be clear about the aim of creating your site, whether the aim of the site is:
  - to inform
  - to promote a product
  - to educate audience
  - to entertain the audience
  -
- Your vision of creating the web site needs to be well defined.
- Once the goals are defined, organize all your materials and put together any other related documents and pictures you want to work with.



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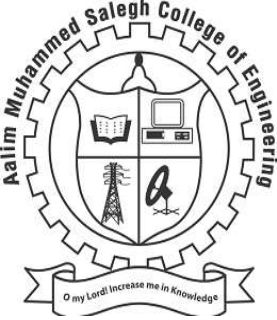
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### ***3. Create a Directory structure***

- If you think that the site will contain very few files then you can store all of them in just one directory.
- But if the site is going to be very large and complex, then you will need to organize files into separate directories and sub-directories.
- Developing a logical directory structure is an essential part of planning your web site. You can have a subdirectory for sound clippings.





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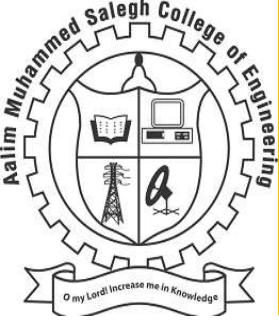


## ***4. Create a Sketch of the web pages***

### **Home Page**

1. My Family
2. My Favorites
3. About Me

- After setting up a general site plan and directory structures, your contents may fall into certain types.
- It may be possible to work within various pre-designed templates available on the web designing tools such as Macromedia Dreamweaver.
- You may like to create a drawing of web pages (Fig. 1).



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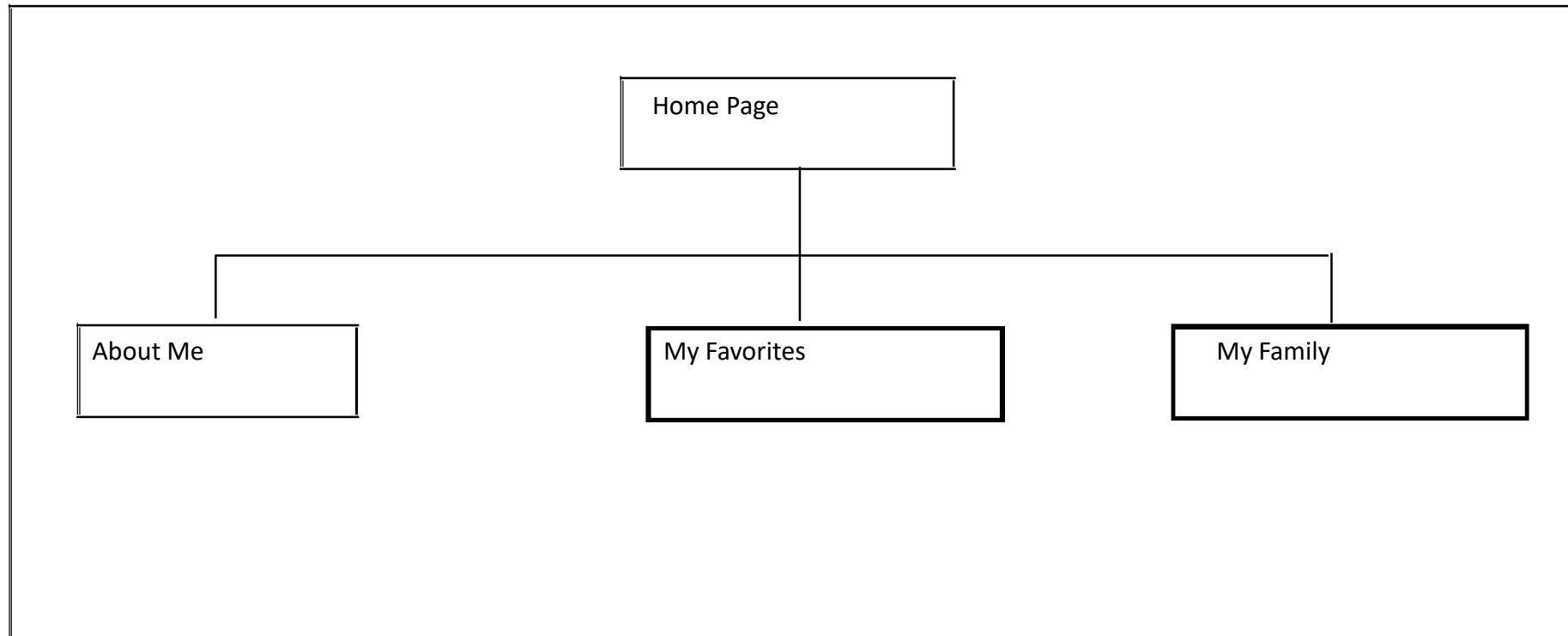
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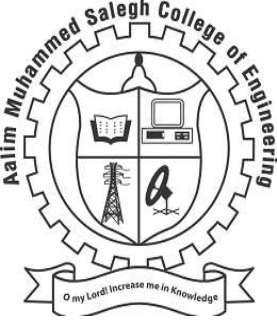
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## ***4. Create a Sketch of the web pages – Cond.***





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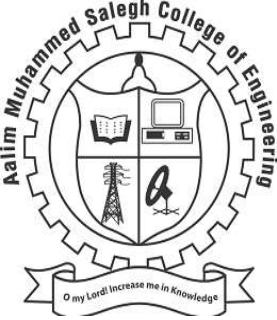
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## **5. Design and refine the look and feel of the site**

- Following are some principles about web page designing which will help you to design an effective web page.
  - a) Present your web page in such a way that the user gets impressed within the first few seconds of visit.
  - b) Keep on updating web pages on regular basis by providing fresh and latest information.
  - c) Keep your web pages focused. Don't show everything on one page, use separate pages for separate topics.
  - d) Make sure that the features used in the web site are compatible to all browsers.
  - e) Ensure that buttons and links in the web site behave as expected.
  - f) Use compressed images so that web page gets quickly loaded.



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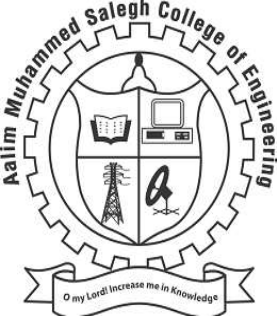
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# Steps for Creating the Website



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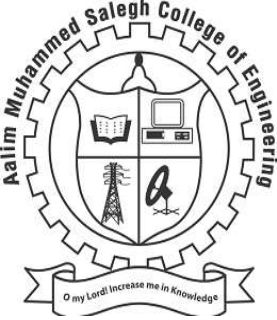
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## *5. Design and refine the look and feel of the site*

- **The major Five steps for creating or developing the website are :**
- These steps are enough for overall design and publishing of website.
- They are:
- ***Step 1: Plan for website creation***
- ***Step 2: Create the website using suitable Language or tool.***
- ***Step 3: Choose the web hosting services***
- ***Step 4: Register the Domain Name.***
- ***Step 5: Upload the files (webpage files)***
- ***Step 6: Test the website.***





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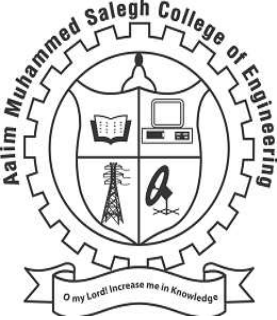
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## *Step 1: Plan for website creation*

- ***Step 1: Plan for website creation***
- *Do the following decisions:*
- Decide the Type of the site is for such as News, Informational Site, Company or Personal
- Types and varieties of Navigation structures needed
- The types and various categories of Web content or Components



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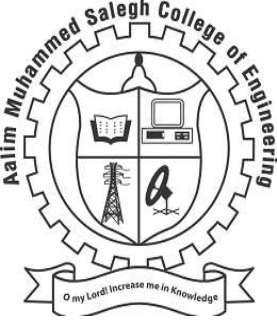
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## **Step 2: Create the website using suitable Language or tool.**

- **Step 2: Create the website using suitable Language or tool.**
- Select the Language such as HTML to select and apply formatting options through valid tags in HTML.



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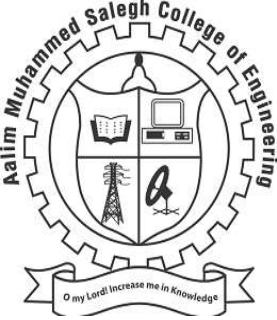
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## *Step 3: Choose the web hosting services*

- ***Step 3: Choose the web hosting services***
- Identify a company that can host and or manage your website on their web server.
- Adopt the type of hosting service that is required such as Personal or Business
- Decide the type other services can be adopted such as email services, Space service.



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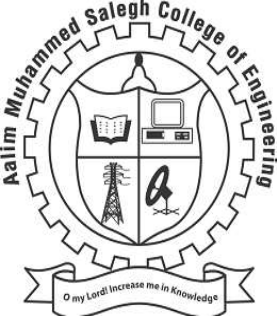
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## **Step 4: Register the Domain Name.**

- **Step 4: Register the Domain Name.**
- Buy your website domain from web hosting company such as GoDaddy.
- Note that domain name is an alias that points to the actual location of your website on their web server.
- These domain names are administered by ICANN ( Internet Corporation for Assigned Names and Numbers).
-



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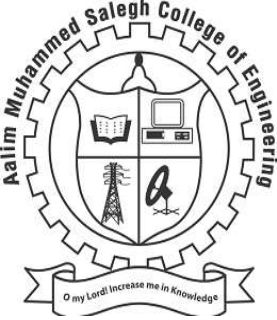
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## *Step 5: Upload the files (webpage files)*

- *Step 5: Upload the files (webpage files)*
- The created web resources such as
  - source file,
  - image,
  - video and
  - audio
- must be moved from the source host (computer) to web server (hosting computer) using the protocol such as HTTP ( Hyper Text Transfer Protocol).





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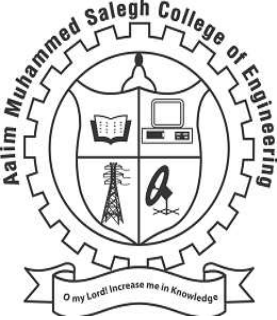
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## *Step 6: Test the website*

- ***Step 6: Test the website.***
- Testing the developed website should be done consistently to assure the live on web.



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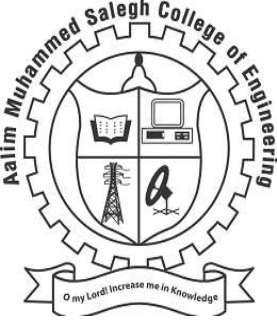
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## List of factors considered while developing a website



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## List of factors considered:

- The various factors that should be considered are:

### 1) Test in multiple browser:

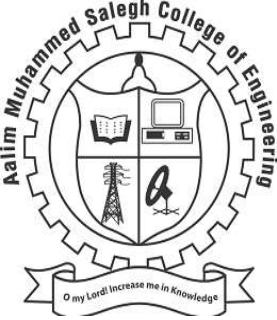
This assures the portability of the site which in turn verifies contents of the site is consistent or not.

### 2) Test in multiple operating Systems:

This assures the need of hosting the site in multiple environments.

### 3) Test for connection field :

Based the real time requirements, an optimal speed that is set during the development is to be maintained for the hosting environment.



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## **List of factors considered:**

### **4) Device Types:**

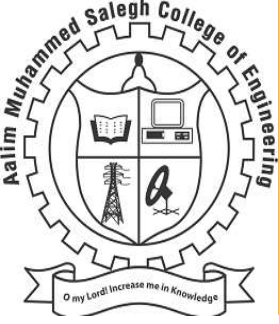
The screen size varies on various device types need to be optimized by adopting the rendering features with device independency.

### **5) Links :**

It is required to verify through validation tool for live connectivity of web pages in the hosted domain such as [validator.w3.org/checklink](http://validator.w3.org/checklink).

### **6) Security Testing:**

To avoid the vulnerabilities by unknown persons or software with the help of security tool or components.



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**Any Questions ?**





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**Thank You**