

Chapter-7

WEB HOSTING

SIRAJ.F.M
HSST COMPUTER SCIENCE
AKGS GHSS PERALASSERY

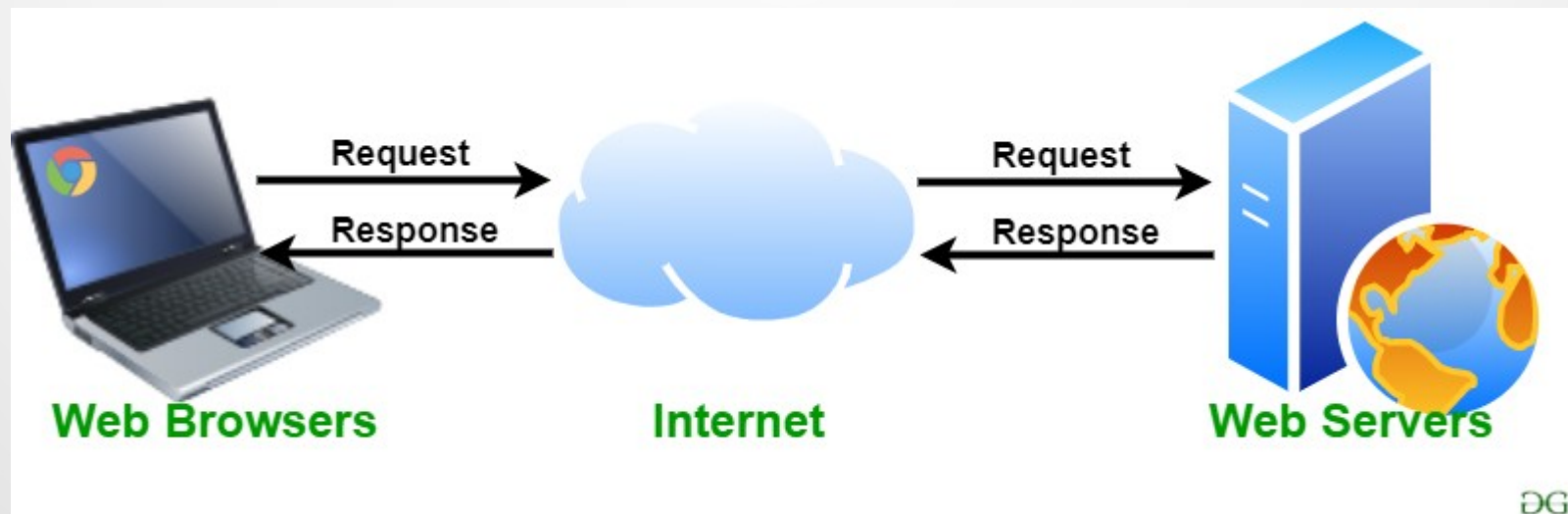
Web Hosting

- Web hosting is the process of storing web pages on a server to serve files for a web site.



What is Web Server?

- A web server is computer software and underlying hardware that accepts requests via HTTP, the network protocol created to distribute web pages, or its secure variant HTTPS.



Web Host

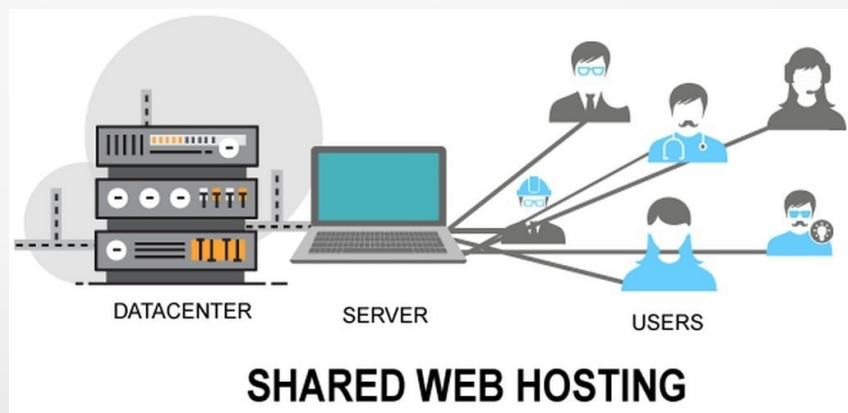
- The companies that provide web hosting services are called **Web Hosts**.
- They own and manage web servers and provides uninterrupted Internet connectivity, software packages for services such as databases and support for programming languages such as PHP, Java, ASP.NET, etc.
- The type of web hosting is decided by the amount of space needed for hosting, number of visitors expected to visit the web sites, use of Programming languages , databases.

Types of Web Hosting

- **1. Shared Hosting**
- **2. Dedicated Hosting**
- **3. Virtual Private Server(VPS)**

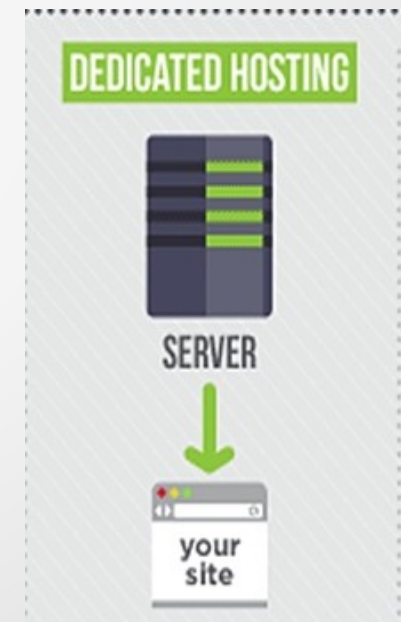
Shared Hosting

- Different websites are stored in a single webserver.
- Most Common type of Web Hosting.
- Resources like RAM, CPU etc are shared by websites.
- Suitable for small websites with less traffic.
- Cheap and easy to use.
- As Bandwidth is shared by different websites, high traffic in one website may slow down other websites.
- Web sites of small organisations can be hosted using shared hosting.



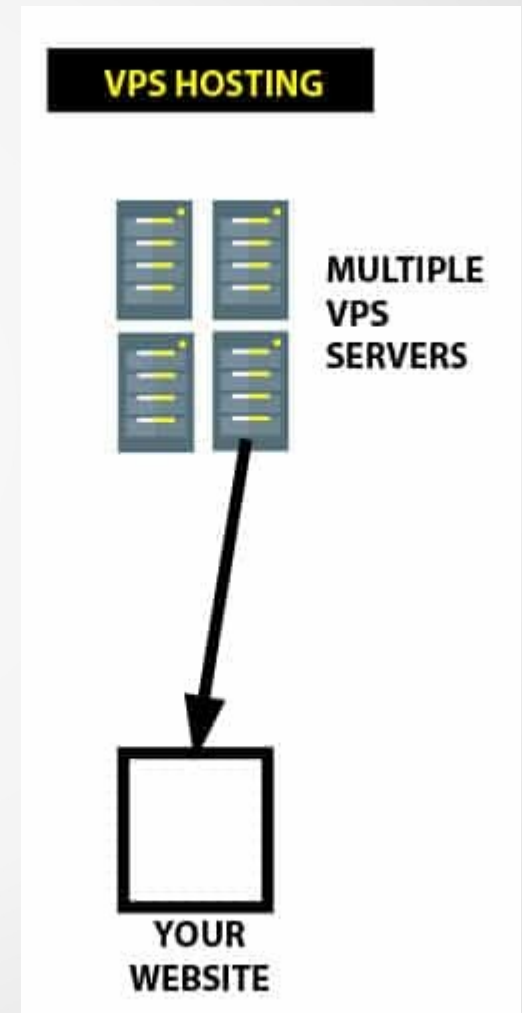
Dedicated Hosting

- One website is hosted in One webserver.
- The website uses the entire server and its resources.
- Suitable for big organizations with large number of visitors.
- Client can choose hardware/software to be used and has full control over the server.
- High performance and highly expensive.
- Dedicated Servers are usually hosted in **Data Centers**.
- Clients can purchase their own server and place them in service providers facility known as **Co-Location**



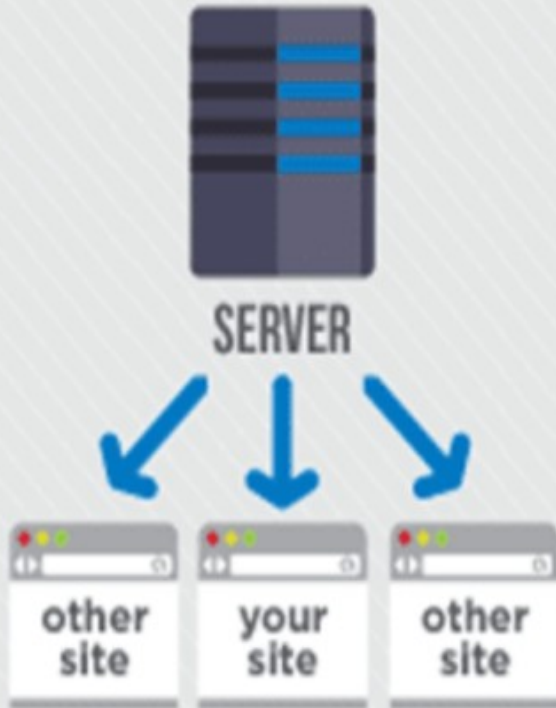
Virtual Private Server (VPS)

- A physical server is virtually partitioned into several servers using virtualization technology.
- Each VPS(partition) works similar to a dedicated server and has its own OS, Softwares, RAM etc.
- VPS provides dedicated bandwidth to each website on the server.
- Traffic in one website will not slow down other websites.
- VPS provides almost all services of dedicated hosting at a lesser cost .
- Some popular server virtualization softwares are VMware, Virtualbox, FreeVPS, User-mode Linux, Microsoft Hyper-V, etc.

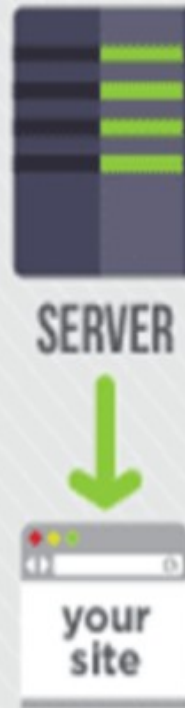


Types of Web Hosting

SHARED HOSTING



DEDICATED HOSTING



VPS HOSTING



Buying Hosting Space

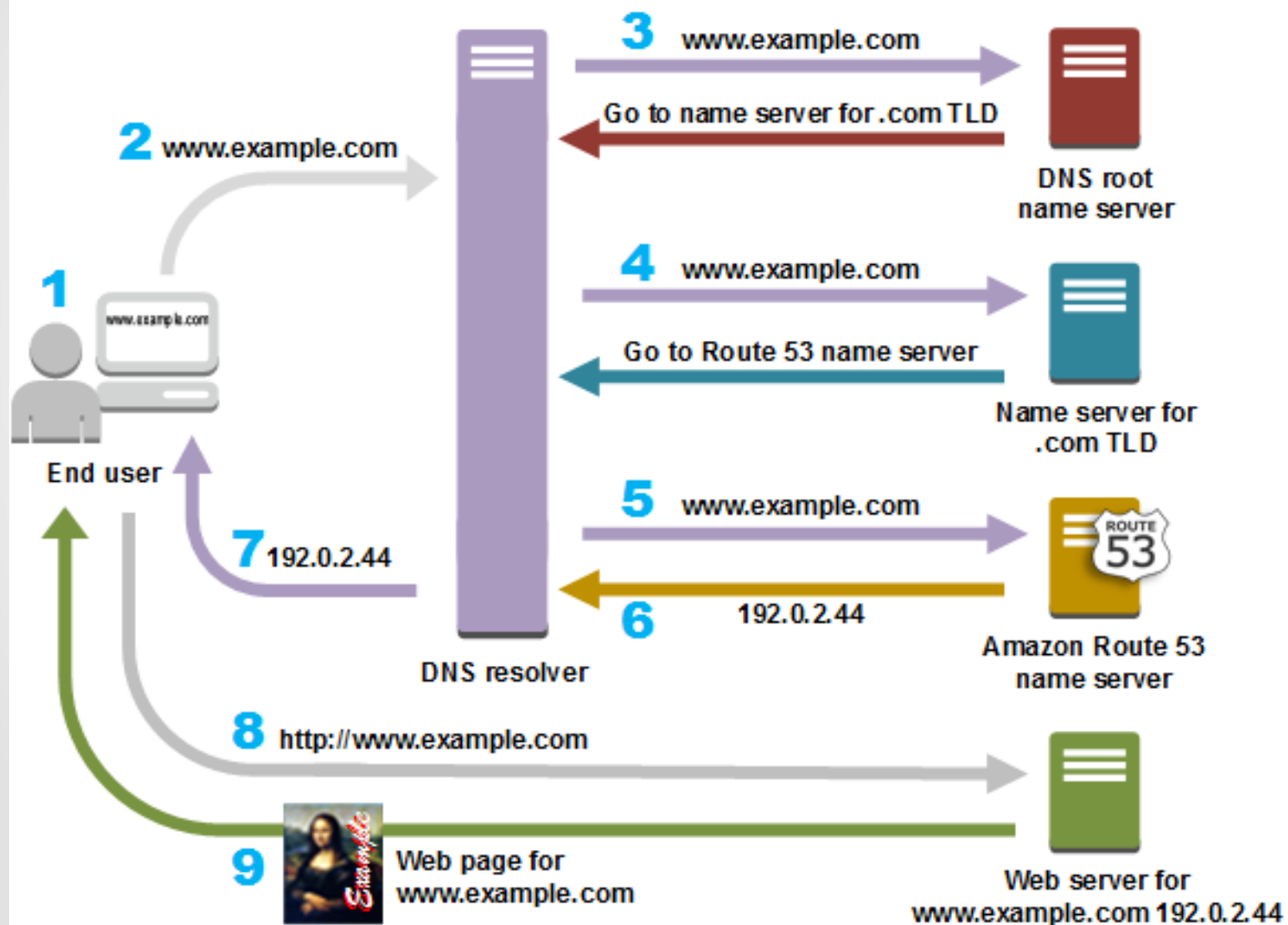
- After designing web pages in our computer files has to be copied to the server. For that, after deciding the hosting type, server space has to be purchased from a hosting service provider.
- While purchasing hosting space ,several factors have to taken into considerations.
 - ✓ Amount of space required.
 - ✓ Supporting technologies needed.
 - ✓ The program used in the web page may require Windows hosting or Linux hosting.
 - ✓ Choose between Windows server or Linux server according to the programs used.
 - ✓ Features like database support, e-mail facility, etc. can also be considered while choosing the web host.

Domain Name System(DNS) registration

- Domain name is registered for creating URL for unique identification of our website on internet.

Steps for domain name registration

- 1) Choose a domain name.
 - 2) Check for availability of the name using availability checker facility in websites like www.whois.net. These websites check the database of ICANN that contains the list of all the registered domain names.
 - 3) Fill WHOIS database by giving name, address, telephone number and e-mail address .
 - 4) Pay annual registration Fee.
- The website has a string address and a numeric address.
 - Eg. www.agker.cag.gov.in and <http://210.212.239.70/> (both are same)



A record' (Address record)

- “A Record” is used for connecting our URL with IP address of web server where our webpages are stored.
- An 'A record' is used to store the IP address of a web server connected to a domain name. 'A record' can be modified by logging into the control panel of the domain. After this DNS servers will be able to resolve our domain name to connect to our web server. Now we can open our website by typing our URL in address bar of browser window.

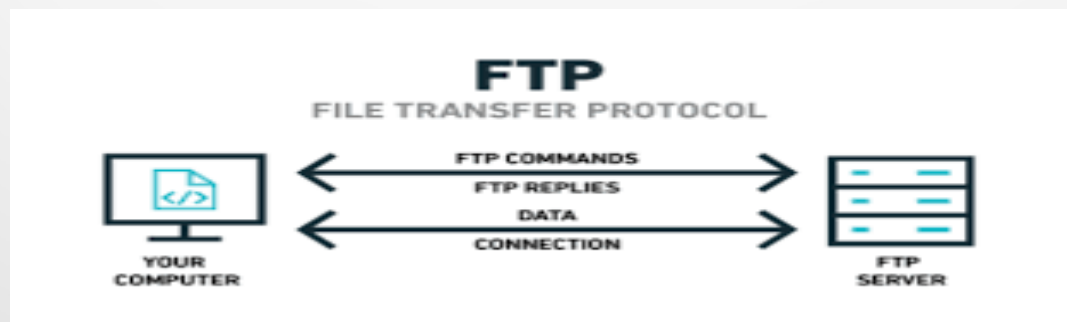
Here is an example of an A record:

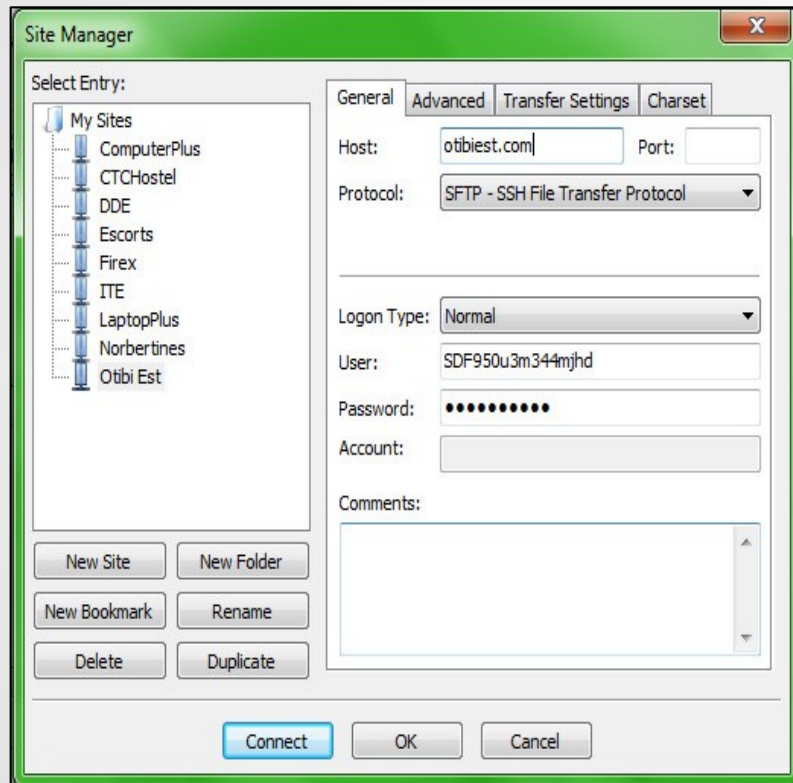
example.com	record type:	value:	TTL
@	A	192.0.2.1	14400

TTL-Time to Live

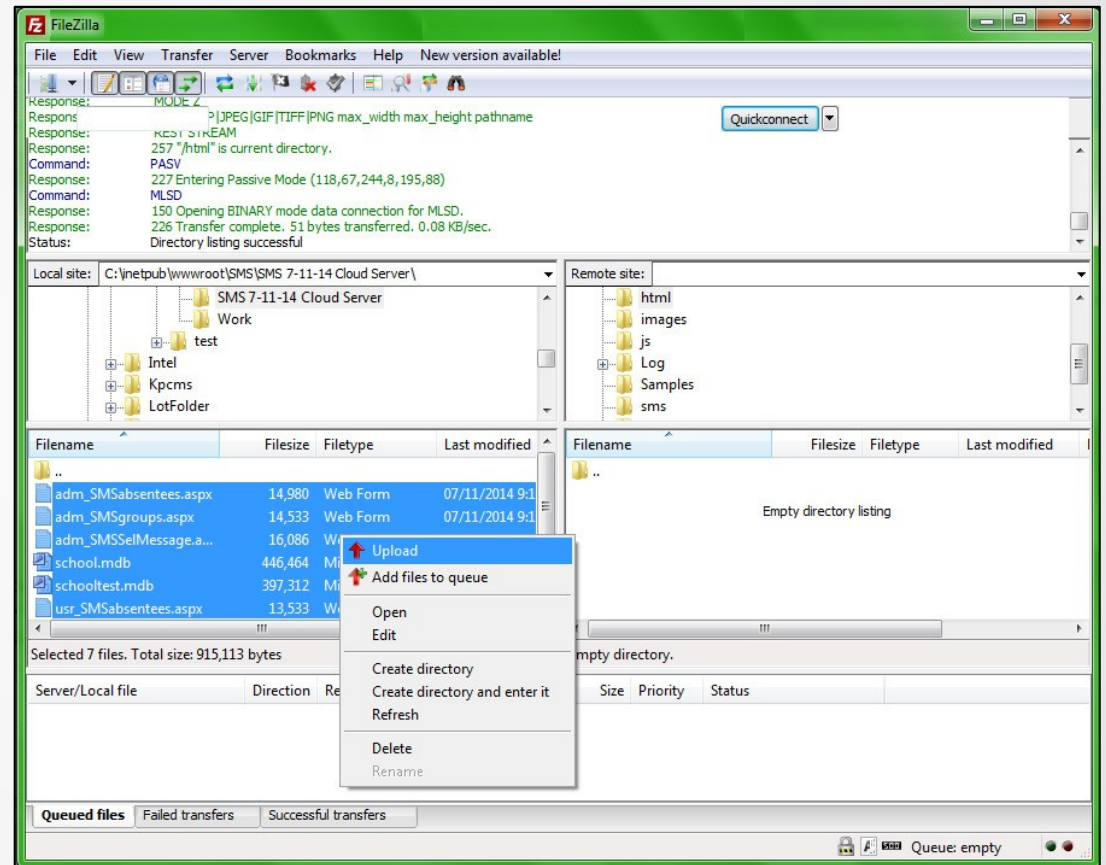
FTP(File Transfer Protocol) client software

- FTP is used to transfer files from one computer to another on the Internet.
- FTP client software establishes a connection between server and client computer.
- Unauthorised access is denied by using user name and password.
- Nowadays SSH (Secure Shell) FTP [SFTP] protocol is used to send user name and password in an encrypted form. By using FTP client software, we can upload files from our computer to the web server by using ' drag and drop ' method.
- The popular FTP client software are File Zilla, Cute FTP, Smart FTP etc






FTP Login




FTP client software IDE


Free Hosting

- Free hosting provides web hosting services free of charge.
- They provide limited facility.
- It is useful for sharing content on the web among family or friends groups, non profit organisations etc. without spending money on web hosting.
- Service providers may display advertisements in our website.
- Restrictions in file size or type are placed by some service providers
- Some websites only permit us to use the templates (pre-formatted designs) they provide for designing websites.
- There are two types of free web hosting services.
- a). as a directory service. Service providers website/our website address.
- Eg. blogspot.com/123hss.
- b). as a sub domain: our web site Address.service providers site.
- Eg. 123hss.blogspot.com.









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Content Management System(CMS)

- CMS is a web based software system used for creating, administering and publishing websites. CMS provides an easy way to design and manage attractive websites.
- Most CMS can be downloaded free of cost.
- Templates are available for easy designing and reduces coding efforts.
- CMS provides standard security features.
- In shared hosting use supported CMS .
- Some of the popular CMS software are **WordPress, Drupal and Joomla!.**

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Announcement : Open Defence of Mr. Abdul Razak will be conducted

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Responsive Web Design

- Web pages are viewed using different devices like Desktop, Laptop, Tablet, Television or mobile phone.
- Traditional web pages are designed to be displayed in desktops or laptops. Such web pages are difficult to be viewed from tablets or mobile phones. Maintaining separate web pages for different devices is difficult.
- Designing webpages which are capable adjusting itself according to the screen size of the device is known as responsive web design.
- The term 'responsive web designing' was coined by Ethan Marcotte. Responsive web design is the custom of building a website suitable to work on every device and every screen size, no matter how large or small, mobile phone or desktop or television.
- Responsive web design can be implemented using flexible grid layout, flexible images and media queries. Various settings can be done using media queries in CSS.





Thank You

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A WHOIS search will provide information regarding a domain. It may include information like domain ownership, where and when registered, expiration date, etc. It is also used to determine whether a given domain name is available or not. A WHOIS lookup on www.kerala.gov.in returns the following.

```
Domain ID:D8944-AFIN
Domain Name:KERALA.GOV.IN
Created On:31-Dec-2003 05:00:00 UTC
Last Updated On:16-Jul-2014 11:37:59 UTC
Expiration Date:31-Dec-2016 05:00:00 UTC
Sponsoring Registrar:National Informatics Centre (R12-AFIN)
Status:OK
Registrant ID:R-R03120114034
Registrant Name:Government of Kerala
Registrant Organization:
Registrant Street1:Chief Minister's Office
Registrant Street2:
Registrant Street3:
Registrant City:Government Secretariate, Trivandrum, 69500
Registrant State/Province:Kerala
Registrant Postal Code:695001
Registrant Country:IN
```

Manage Domain

Domain Name(s): stjosephsbhss.org Save Changes

☐ Check to Change Registrant only ☐ Apply registrant details A,B,T changes to all.

Registrant Administrative Billing Technical

First Name The

Last Name Principal

Email sbhss@gmail.com

Company Name St. Josephs Boys' HSS

Address Cakul Beach PO

City Kochi

State Kerala

Fig. 7.5 : Providing WHOIS information