**Laboratory Assignment 3**

**CMS tool**

Introduction to CMS

•Contents of websites may consist of text, graphics, sounds, movies and so on,

•Content Management Systems are used as a tool to publish such contents onto a website easily and efficiently, it also helps to separate web page design from content creation.

•Content Management Systems are usually developed using a combination of programming/scripting languages and database technologies, in which they work well together.

•In order to manage the process of creating and presenting information on web pages,

this software consists of the following:

1. Client software: is used to present a user interface to help users add, change, or delete information on web pages, for example a web browser such as Internet Explorer or Mozilla Firefox are used to display web based user interfaces.
2. Database software: is used as a tool to store data or information for future retrieval or manipulation, for example Microsoft SQL server, Oracle and MySQL databases.
3. Web programming languages and scripts: these are used as a tool to communicate to the underlying database to extract, change, save, or remove data from and to the database, for example JSP, PHP, Java Servlet, Perl and so on.
4. Template page: This is usually created by Hyper Text Mark up Language (HTML) to keep the website layout consistent in order to preserve the corporate image by keeping the same look and feel through out the system.

**Advantages of Content Management Systems**

1. It helps content authors to update or publish information onto the website without any need for web programming knowledge, which in turn reduces the cost of professional assistance.
2. It allows content writers to concentrate on writing information without worrying about the design of the website. They can easily add, edit, and remove contents from and to the database by using simple user interfaces.
3. It allows web content maintenance carried out easily and efficiently to meet business needs.
4. It provides a consistent corporate image by keeping a consistent presentation and layout of web pages throughout the website by separating web page design tasks from content creation tasks.
5. It helps web developers to concentrate on more important aspects of the website such web architecture, design, navigation and usability of the website without worrying about creating and updating information on the website.

**Assignment:**

1. Develop website using any CMS tool which falls into one of the categories blog, social networking, News updates, Wikipedia, E-commerce store.
2. Website must include home page, and at least 5 forms.
3. Use WordPress/ Joomla/ Drupal/ PHP/ CSS/ Bootstrap/ JavaScript

**Website Deployment:**

* When the process of website development is complete, its needs to be deployed on a web server.
* When development of website is completed, it is tested for its final working and ready to be hosted on a live web server.
* The hosting of a website on a web server involves the following steps:

a.Domain registration

b.Domain hosting

c.Parking websites

d.Uploading data using FTP

e.Email configuration

**Conclusion:**The various features of CMS have been studied and WordPress have been used.