

| Write-up | Correctness of Program | Documentation of Program | Viva | Timely Completion | Total | Dated Sign of Subject Teacher |
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Assignment No. 06

Date of Performance:

Title: (Mini Project) Develop website using any CMS tool which falls into one of the categories blog, social networking, News updates, Wikipedia, E-commerce store. Website must include home page, and at least 3 forms (with Validation), use at least HTML5, PHP, CSS/Bootstrap, JavaScript technologies. No database support is needed. Deploy website on live webserver and access through URL.

Objective: To make use of all web technologies for the creation of attractive website.

Theory: Content Management System (CMS) is a software tool that allows to create, edit & publish the contents, normally web contents. Goal of CMS is to provide the effective UI for building & modifying webpage content. There are 2 types of tools,

- Editing Tool: Content Management Application
- Publishing Tool: Content Delivery Application

Advantages of using CMS:

- Offers centralized & shared repository
- Accuracy can be managed as update is possible time to time
- Secured contents can be stored
- Possible of quick creation & publication of new info on CMS
- Unlimited info can be stored on web
- Possible to communicate with clients

Various CMS tools:

- WordPress
- Joomla
- Drupal
- Blogger
- Weebly

WordPress:

- WordPress is licensed under GNU Public License.
- It stores content in raw form.
- This raw formed data can be run through templates or WordPress API.
- Data model used by WordPress uses a rich set of tables to manage categories, content tags & other cross reference values.

Directory & File Structure of WordPress

- WordPress have 3 default directories:
 - wp-admin
 - wp-content
 - wp-include
- All WordPress core files are present in wp-admin & wp-include.
- The wp-content directory contains all custom files created by user including themes, plugins & media.
- It also contains code that controls content manipulation & presentation in WordPress.
- Do not modify core files otherwise it will result in unstable website
- In general, do not modify any files in default directories
- Important core files in WordPress directory are
 - wp-config.php
 - .htaccess file

Core –

- Basic set of files downloaded from official website of WordPress.
- Does not include custom files for themes, plugins, database settings, .htaccess file & so on.
- Typically, php files but CSS, HTML, XML or JavaScript can be core files.
- Some important core files are: functions.php, formatting.php, plugin.php, user.php.

Loop –

- Loop is php code used to display posts.
- Used in WordPress themes to display list of posts in a web page.
- Basic info such as title, theme & categories can be displayed.

Data Management –

- WordPress is connected with MySQL database.
- This database stores all the data of website including contents, users, links, settings, etc.
- With default installation, wordpress contains 11 database tables: wp_commentmeta, wp_comment, wp_links, wp_options, wp_postmeta, wp_post, wp_terms, wp_users, wp_term_relationship, wp_term_taxonomy, wp_usermeta

WordPress is a powerful CMS because of following characteristics

- Simplicity: user friendly interface which makes it simple.
- Flexibility: can handle various sites.
- Extensibility: got support from plugins & themes using which variety of visual styles can be created.

Conclusion: Thus, we have studied about CMS & WordPress as CMS for designing and developing very attractive website.
