**EX.NO:7.3 FOSS TOOL USED FOR PROJECT DEVELOPMENT**

**DATE:**

**TOOL USED IN THIS PROJECT:**

NOTEPAD++

**INTRODUCTION:**

Notepad++ is a text editor and source code editor for use with Microsoft Windows. It supports tabbed editing, which allows working with multiple open files in a single window. The project’s name comes from the C increment operator. Notepad++ is distributed as free software. Notepad++ was developed by Don Ho in September 2003. Notepad++ supports several programming languages and natural languages.

**HISTORY:**

* Notepad++ was first released on SourceForge on 25 November 2003, as a Windows-only application.
* In January 2010 the US government obliged US-based open source project hosts to deny access from Cuba, Iran, North Korea, Sudan, and Syria to comply with U.S. law.
* In 2011 Lifehacker described Notepad++ as the “The Best Programming Text Editor for Windows”, stating that “if you prefer a simple, lightweight, and extensible programming plain-text editor, our first choice is the free, open-source Notepad++".
* In 2014 Lifehacker readers voted Notepad++ as the “Most Popular Text Editor”, with 40% of the 16,294 respondents specifying it as their most-loved editor.
* In 2015 Stack Overflow conducted a worldwide Developer Survey, and Notepad++ was voted as the most used text editor worldwide with 34.7% of the 26,086 respondents claiming to use it daily

**FEATURES:**

* + - Supports Microsoft Windows, Unix and Classic Mac OS line ending characters.
    - Automatic backup of unsaved files.
    - Text encoding formats including ASCII, Unicode, UTF-8 and several UTF-16 encodings.
    - Find and replace with regular expressions; over multiple documents and marking/ summary of occurrences.
    - Square selection
    - Data comparison
    - Drag-and-drop
    - Macro recording and execution
    - Bookmarks
    - Simultaneous editing
    - Split screen editing and synchronized scrolling

**PROGRAMMING:**

Notepad++ is one of the most popular source code editors in the world and supports syntax highlighting and code folding for over 50 programming, scripting, and markup languages. Its programming-related features include:

* Auto-completion for a subset of the API of some programming language
* Syntax highlighting and syntax folding
* Indent guidelines for tab-indented files
* Matching brace highlighting (for curly braces and square brackets)
* Matching tag highlighting (for HTML and XML tags)
* Various tools such as line sorting, text encoding conversion,
* text folding
* File status auto-detection

The following programming languages are natively supported by Notepad++:

* Ada, asp, Assembly, AutoIt
* Batch
* C, C++, C#, Caml, Cmake, COBOL, CoffeeScript,
* CSS
* D, Diff
* Flash ActionScript, Fortran
* Gui4CLI
* Haskell, HTML
* INNO
* Java, Javascript, JSP
* KiXtart
* LISP, Lua
* Makefile, Matlab, MS-DOS, INI file
* NSIS, Normal Text File
* Objective-C
* Pascal, Perl, PHP, PostScript, PowerShell, Properties,
* Python

**PLUGINS:**

Notepad++ has support for macros and plugins and has been marked for its robust plugin architecture which enabled various new features to be integrated into the program.Currently, over 140 compatible plugins are developed for Notepad++, 10 of which are included by default in the program.[24] The first plugin to be included in the program was *“TextFX”*, which includes W3C validation for HTML and CSS, text sorting, character case alteration and quote handling.

**XAMPP SERVER:**

XAMPP is a free and open source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages. XAMPP stands for Cross-Platform (X), Apache (A), MariaDB (M), PHP (P) and Perl (P). It is a simple, lightweight Apache distribution that makes it extremely easy for developers to create local web server for testing and deployment purposes. Everything needed to set up a web server – server application (Apache), database (MariaDB), and scripting language (PHP) – is included in an extractable file.XAMPP is also cross-platform, which means it works equally well on Linux, Mac and Windows. Since most actual web server deployments use the same components as XAMPP, it makes transitioning from a local test server to a live server extremely easy as well. It also comes with a number of other modules including OpenSSL, phpMyAdmin, Joomla, WordPress and more. XAMPP’s designers intended it for use only as a development tool, to allow website designers and programmers to test their work on their own computers without any access to the Internet. XAMPP has the ability to serve WebPages on the World Wide Web. XAMPP also provides support for creating and manipulating databases in MariaDB and SQLite among others. Once XAMPP is installed, it is possible to treat a local host like a remote host by connecting using an FTPclient. It is also possible to connect to localhost via FTP with an HTML editor.

**PHPMYADMIN :**

phpMyAdmin is a free and open source tool written in PHP intended to handle the administration of MySQL or MariaDB with the use of a web browser. It can perform various tasks such as creating, modifying or deleting databases, tables, fields or rows; executing SQL statements; or managing users and permissions. PhpMyAdmin had already become one of the most popular PHP applications and MySQL administration tools, with a large community of users and contributors. The main PhpMyAdmin features are User-friendly web interface, Support for most MySQL functions like browse, drop, create, copy and alter databases, tables, views, fields and indexes, execute MySQL queries, manage stored procedures and functions, Import data from CSV and SQL files, Export data to various formats: CSV, SQL, XML, PDF, ISO/IEC 26300 - Open Document Text and Spreadsheet, Word, Excel, LATEX and others.

The Features provided by the phpMyAdmin include:

* Web interface
* MySQL and MariaDB database management
* Import data from CSV and SQL
* Administering multiple servers
* Creating complex queries using Query-by-Example(QBE)
* Searching globally in a database or a subset of it
* Transforming stored data into any format using a setof predefined functions, like displaying BLOB-data as image or download-link
* Working with different operating systems.