**A**

**Project Report**

**On**

**“E-LEARNING WEBSITE**

**STARLEARN”**

Submitted for partial fulfilment of the requirement for diploma of

DIPLOMA OF ENGINEERING

In

(Computer Engineering)

Maharashtra State Board of Technical Education, Mumbai

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2018-2019

**DECLARATION**

We, hereby declare that the project report titled **“E-LEARNING WEBSITE** **STARLEARN”** submitted here has been carried out by us in the **Department of** **Computer Engineering of Chandrapur Polytechnic Chandrapur, Chandrapur.** The work is original and has not been submitted earlier as a whole or in part for the award of any degree/diploma at this or any other Institution/University.

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**CERTIFICATE**

This is to certify that the project entitled

**“E-Learning Website Starlearn”**

Is a bonafide work and it is submitted to the Maharashtra State Board of Technical Education, Mumbai

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In the partial fulfilment of the requirement for the diploma of **Diploma of Engineering in Computer Engineering**, during the academic year 2018-2019 under my guidance.

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Tools Used

**SOFTWARE REQUIREMENT**

* **Editor:** NOTEPAD++ ,
* **Database Server:** XAMPP ,
* **Browser:** Google Chrome and Internet Explorer
* **Operating System:** Window XP and above

**HARDWARE REQUIRED**

* **RAM:** 2GB
* **PROCESSOR:** Intel Core i3 and above
* **Storage:** 20GB

**INTRODUCTION TO NOTEPAD++**

**Notepad++** is a [text editor](https://en.wikipedia.org/wiki/Text_editor) and [source code editor](https://en.wikipedia.org/wiki/Source_code_editor) for use with [Microsoft Windows](https://en.wikipedia.org/wiki/Microsoft_Windows). It supports [tabbed](https://en.wikipedia.org/wiki/Tab_(GUI)) editing, which allows working with multiple open files in a single window. The project's name comes from the [C](https://en.wikipedia.org/wiki/C_(programming_language)) [increment operator](https://en.wikipedia.org/wiki/Increment_operator).

Notepad++ is distributed as [free software](https://en.wikipedia.org/wiki/Free_software). At first the project was hosted on [SourceForge.net](https://en.wikipedia.org/wiki/SourceForge.net), from where it has been downloaded over 28 million times, and twice won the SourceForge Community Choice Award for Best Developer Tool.

Notepad++ was developed by Don Ho in September 2003.The developer used JEXT (a [Java](https://en.wikipedia.org/wiki/Java_(programming_language))-based text editor) at his company but, dissatisfied with its poor performance, he began to develop a text editor written in C++.

Notepad++ has features for consuming and creating cross-platform plain text files. It recognizes three [newline representations](https://en.wikipedia.org/wiki/Newline#Representations) (CR, CR+LF and LF) and can convert between them on the fly. In addition, it supports reinterpreting plain text files in various [character encodings](https://en.wikipedia.org/wiki/Character_encoding) and can convert them to [ASCII](https://en.wikipedia.org/wiki/ASCII), [UTF-8](https://en.wikipedia.org/wiki/UTF-8) or [UCS-2](https://en.wikipedia.org/wiki/UCS-2). As such, it can fix plain text that seem gibberish only because [their character encoding is not properly detected](https://en.wikipedia.org/wiki/Bush_hid_the_facts). Notepad++ has support for [macros](https://en.wikipedia.org/wiki/Macro_(computer_science)) and [plugins](https://en.wikipedia.org/wiki/Plug-in_(computing)), 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. 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. Notepad++ supports internationalization through XML files in an application specific format containing all internationalized strings (dialog captions, menu titles and items, etc.) in a certain language; this file can be reloaded from the application settings. Translations to new languages can thus be written by simply editing an existing file.

**INTRODUCTION TO XAMPP SERVER**

**XAMPP** is a [free and open-source](https://en.wikipedia.org/wiki/Free_and_open-source) [cross-platform](https://en.wikipedia.org/wiki/Cross-platform) [web server](https://en.wikipedia.org/wiki/Web_server) [solution stack](https://en.wikipedia.org/wiki/Solution_stack) package developed by Apache Friends, consisting mainly of the [Apache HTTP Server](https://en.wikipedia.org/wiki/Apache_HTTP_Server), [MariaDB](https://en.wikipedia.org/wiki/MariaDB) [database](https://en.wikipedia.org/wiki/Database), and [interpreters](https://en.wikipedia.org/wiki/Interpreter_(computing)) for scripts written in the [PHP](https://en.wikipedia.org/wiki/PHP) and [Perl](https://en.wikipedia.org/wiki/Perl) [programming languages](https://en.wikipedia.org/wiki/Programming_language). Since most actual web server deployments use the same components as XAMPP, it makes transitioning from a local test server to a live server possible.

XAMPP's ease of deployment means a [WAMP](https://en.wikipedia.org/wiki/WAMP) or [LAMP](https://en.wikipedia.org/wiki/LAMP_(software_bundle)) stack can be installed quickly and simply on an operating system by a developer, with the advantage a number of common add-in applications such as WordPress and [Joomla!](https://en.wikipedia.org/wiki/Joomla!) can also be installed with similar ease using [Bitnami](https://en.wikipedia.org/wiki/Bitnami) .

XAMPP requires only one [zip](https://en.wikipedia.org/wiki/ZIP_(file_format)), [tar](https://en.wikipedia.org/wiki/Tar_(file_format)), [7z](https://en.wikipedia.org/wiki/7z_(file_format)), or [exe](https://en.wikipedia.org/wiki/EXE) file to be downloaded and run, and little or no configuration of the various components that make up the web server is required. The Windows' version of XAMPP requires Microsoft Visual C++ 2017 Redistributable.

The most obvious characteristic of XAMPP is the ease at which a [WAMP](https://en.wikipedia.org/wiki/WAMP) webserver stack can be deployed and instantiated. Later some common packaged applications that could be easily installed were provided by [Bitnami](https://en.wikipedia.org/wiki/Bitnami).

Officially, 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. To make this as easy as possible, many important security features are disabled by default. XAMPP has the ability to serve web pages on the [World Wide Web](https://en.wikipedia.org/wiki/World_Wide_Web). A special tool is provided to [password-protect](https://en.wikipedia.org/wiki/Password) the most important parts of the package.

XAMPP also provides support for creating and manipulating databases in [MariaDB](https://en.wikipedia.org/wiki/MariaDB) and [SQLite](https://en.wikipedia.org/wiki/SQLite) among others.

Once XAMPP is installed, it is possible to treat a [localhost](https://en.wikipedia.org/wiki/Localhost) like a remote host by connecting using an [FTP](https://en.wikipedia.org/wiki/File_Transfer_Protocol) client. Using a program like [FileZilla](https://en.wikipedia.org/wiki/FileZilla) has many advantages when installing a [content management system](https://en.wikipedia.org/wiki/Content_management_system) (CMS) like [Joomla](https://en.wikipedia.org/wiki/Joomla) or [WordPress](https://en.wikipedia.org/wiki/WordPress). It is also possible to connect to localhost via FTP with an [HTML editor](https://en.wikipedia.org/wiki/HTML_editor).

**Languages Used**

**HTML5**

**HYPER TEXT MARKUP LANGUAGE**

**HTML 5**  is a [software solution stack](https://en.wikipedia.org/wiki/Solution_stack) that defines the properties and behaviors of  [web page](https://en.wikipedia.org/wiki/Web_page) [content](https://en.wikipedia.org/wiki/Web_content) by implementing a [markup](https://en.wikipedia.org/wiki/Markup_language) based [pattern](https://en.wikipedia.org/wiki/Software_design_pattern) to it.

HTML 5 is the fifth and current major version of the [HTML](https://en.wikipedia.org/wiki/HTML) standard, and subsumes [XHTML](https://en.wikipedia.org/wiki/XHTML). It currently exists in two standardized forms: *HTML 5.2* Recommendation by the [World Wide Web Consortium](https://en.wikipedia.org/wiki/World_Wide_Web_Consortium) (W3C, a broad coalition of organizations), intended primarily for Web content developers; and *HTML Living* Standard by [WHATWG](https://en.wikipedia.org/wiki/WHATWG) (a small consortium of four browser vendors), intended primarily for browser developers, though it also exists in an abridged Web developer version. There are minor conflicts between the two groups' specifications.

**HOW HTML5 IS DIFFERENT FROM HTML?**

Browsers are responsible for rendering of the web page content via these tags. Since long, **HTML** has not been the only web development standard. ... The main difference between **HTML** and **HTML5** can be that neither audio nor video is a constituent of **HTML** whereas both can be considered integral parts of **HTML5**.Aug 7, 2017

**ADVANTAGES OF HTML5**

1. **Supports rich media elements:**   
   HTML5 has an inbuilt capability to play audio and video and so we can bid goodbye to those plugin tags.
2. **Cleaner markup/ Improved code:**   
   HTML5 will enable web designers to use cleaner, neater code. We can remove div tags and replace them with semantic HTML5 elements.
3. **Elegant forms:**   
   HTML5 enables designer to use fancier forms. There will be different type of inputs, search and different fields for different purpose.
4. **Offline Application Cache:**  
   HTML5 offers an offline application cache facility which will load the page the user has visited even if the user is temporarily offline. This feature will help the files to load much faster and reduces load on server.

**CSS**

**CASCADING STYLE SHEETS**

**Cascading Style Sheets** (**CSS**) is a [style sheet language](https://en.wikipedia.org/wiki/Style_sheet_language) used for describing the [presentation](https://en.wikipedia.org/wiki/Presentation_semantics) of a document written in a [markup language](https://en.wikipedia.org/wiki/Markup_language) like [HTML](https://en.wikipedia.org/wiki/HTML).CSS is a cornerstone technology of the [World Wide Web](https://en.wikipedia.org/wiki/World_Wide_Web), alongside HTML and [JavaScript](https://en.wikipedia.org/wiki/JavaScript).

CSS is designed to enable the separation of presentation and content, including [layout](https://en.wikipedia.org/wiki/Page_layout), [colors](https://en.wikipedia.org/wiki/Color) , and [fonts](https://en.wikipedia.org/wiki/Typeface). This separation can improve content [accessibility](https://en.wikipedia.org/wiki/Accessibility), provide more flexibility and control in the specification of presentation characteristics, enable multiple [web pages](https://en.wikipedia.org/wiki/Web_page) to share formatting by specifying the relevant CSS in a separate .css file, and reduce complexity and repetition in the structural content.

Separation of formatting and content also makes it feasible to present the same markup page in different styles for different rendering methods, such as on-screen, in print, by voice (via speech-based browser or [screen reader](https://en.wikipedia.org/wiki/Screen_reader)), and on [Braille-based](https://en.wikipedia.org/wiki/Braille_display) tactile devices. CSS also has rules for alternate formatting if the content is accessed on a [mobile device](https://en.wikipedia.org/wiki/Mobile_device).

The name cascading comes from the specified priority scheme to determine which style rule applies if more than one rule matches a particular element. This cascading priority scheme is predictable. The CSS specifications are maintained by the [World Wide Web Consortium](https://en.wikipedia.org/wiki/World_Wide_Web_Consortium) (W3C).

The W3C operates a free [CSS validation service](https://en.wikipedia.org/wiki/W3C_Markup_Validation_Service#CSS_validation) for CSS documents.In addition to HTML, other markup languages support the use of CSS including [XHTML](https://en.wikipedia.org/wiki/XHTML), [plain XML](https://en.wikipedia.org/wiki/Plain_Old_XML), [SVG](https://en.wikipedia.org/wiki/Scalable_Vector_Graphics), and [XUL](https://en.wikipedia.org/wiki/XUL).

**ADVANTAGES OF CSS**

1. Easier to maintain and update
2. Greater consistency in design
3. More formatting options
4. Lightweight code
5. Faster download times
6. Search engine optimization benefits
7. Ease of presenting different styles to different viewers
8. Greater accessibility