

2022

WEB TECHNOLOGY



PROJECT REPORT

FREE CERTIFICATE-COURSES



**GET FREE COURSES
WITH FREE
CERTIFICATES**



SKILL LEARNER



PROJECT REPORT ON

"Free Certificate Courses Website"

SUBMITTED BY

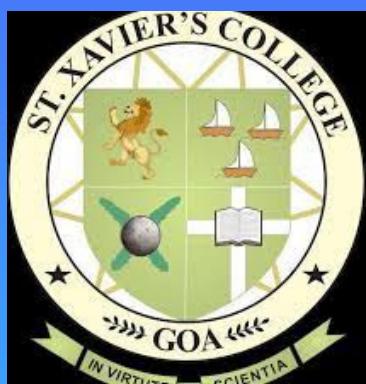
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SUBMITTED TO

The Goa University



Third Year BSC Computer Science
2021-2022



UNDER THE GUIDANCE OF

Mr. Parmanand J Mandrekar

(Department of Computer Science)

St. Xavier's College Mapusa-Goa



CERTIFICATE

This project report is the record of work done by the candidates themselves during the period of study under my guidance and it has not previously formed the basis for the award of any degree in the Goa University or elsewhere.

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DECLARATION

I hereby declare that the project entitled "Free Certificate Courses Website" submitted to Goa University, is a record of an original work done by Sandesh Gawas, Shaunak Apte, Mohammed Shamim, Ravi Shivaray Human, Aniket Uday Naik, Gajanan Mathkar, Architt Vashishtha, and Johan Fernandes under the guidance of Mr. Parmanand J. Mandrekar, Associate Professor at St. Xavier's College, Mapusa and this project has not been performed on the basis for the award of any Degree or Diploma/associationship/fellowship at the Goa University or elsewhere.

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INTRODUCTION

The "Skills Learner" website project includes online certificate courses which can be beneficial to students at all stages in school and college life. The website provides various free courses which can help students acquire skills for placement, interview, internship etc.

Website provides various category of courses like "App Development", "Cyber Security:", "Business", "Designing", "Graphic Designing", "Web Design and Development ", " Health and Fitness" , "Marketing", "Photography", "Content Writing", "Self Development" etc.

Along with students the website is also beneficial for teachers who are willing to impart skills and training in various courses as website provides them to be an instructor in various domains.

The Website basically helps students acquire various skills of their interest by teaching and demonstrating them through video lessons and doubt clearing sessions and also helps them obtain certificates which can be beneficial for securing placements.

When student complete a course, he will receive a certificate of course completion for Free. He can access his/her certificate any time by login into account.

This Certificates:-

- serve as proof of achievements, enhances professional credibility.
- Extends knowledge and skills, preparing you for more job responsibilities.
- Serves as portable proof of ability.
- Enriches self-image and reputation among peers.
- Improves career opportunities-promotion, pay increases, job portability.

This site is made for the benefits of those who need skills to learn for free and become financially free and support his families.

All free courses shown on Skill Learner are from Video Sharing Platform like Vimeo & YouTube. All the Courses listed on this site are of best quality curated by expert for free for you to fast forward your career.

This site has been developed with the aim of helping users find free courses available online, as there are many good and free contents on YouTube. This site aims to be a great learning tool, through the exhibition of courses available for free on the internet.

PRODUCT DESCRIPTION

"Skill Learner" is a Website which aims to provide certification courses to students in various fields to help them secure placements, grab internship opportunities etc.

In order to access the our website you can visit by the link: <https://dev-learn-skills-free.pantheonsite.io/> where the user needs to login with a password when he wants to access to the course.

1. Course Recommendation: Students face difficulties in knowing what all things are important from placement perspective and what are the requirements of IT Industry, So this websites helps them in bridging the gap between their requirements and lack of skills by providing certification of Courses as per interest of students.

2. Best Course Contents: Most of students waste their time to find best course on YouTube, in order to save their precious time for learning, we have curated the best courses by the experts of their field and provided for free.

3. Free Certificates: Students will also get free certificate for every skill learned by them & this will help to showcase skill to the world & scale their career.

4. Career for Instructors: website helps teachers to impart their skills, experience, knowledge in various fields and also provide opportunity to them to work with instructors of other fields.

5. Recommended Courses Popularity: Suggests which are the best courses running in the market at present and what skill set is needed to gain expertise and job in these fields.

6. Regular Assessment of Students: Assesses the students on the basis of Quizes, Tests and helps them identify their strengths and weaknesses.

7. Text to Speech: We have also integrated text to speech where the user instead of reading can listen the course description and article and can also download it.

8. Live Chat: We have provided the live chat option in order to solve the query of user.

9. Social Signup & Login: We have also provided the option to login by Google & Facebook accounts so that user can login quickly and easily without typing password.

10. Sharing Options : By this option user can share and recommend the course to his friends by just single click of a button through various social platforms.

DEVELOPMENT ENVIRONMENT



StarUML



XAMPP



Visual Studio



What is Visual Studio?

Visual Studio is an Advanced Integrated Development Environment exclusively developed by the Microsoft Corporation in the year 2000. It is actively used to develop Computer programs, Websites, Desktop Applications, Mobile Applications, Games and much more.

Visual Studio is capable enough to support more than 36+ Programming Languages that allows the code editor and compiler to execute nearly any programming language. Some popular languages that are supported by Visual Studio are Visual Basics, C-Programming Language, C++ Programming Language, C# Programming Language, Python, JavaScript.

Features of Visual Studio:

Visual Studio provides the most advanced features that the latest developers are looking for. Few of the most important features are described as follows.

- **Code Editor**

The Visual Studio has the best in class Code editor which supports multiple functionalities. It enables bookmarks in code to incorporate Quick Navigation. In addition to the normal text, VS also provides Incremental Search, Regex Search, Multi-item Clipboard, and Task-list.

The Editor is also capable to support Code refactoring, Parameter Reordering, Variable and Method Renaming, Interface Extraction and many more user-friendly functionalities.

- **Debugger**

The remarkable Debugger of the MS Visual Studio can work both as a Machine Level Debugger as well as a Source Level Debugger. It is capable to debug Mapped Code as well as Native Code. It is capable to compile any programming language that is supports VS.

It is capable to attach itself to the currently running process to conduct monitoring and debugging procedures on the code, provided if the source code is available. VS can incorporate Memory Dumps and Multi-threading as well.

- **Designer**

Visual Studio includes a number of visual designers to help within the development of applications. Some of the tools are listed below.

- **Extensibility**

Visual Studio permits developers to write down extensions for Visual Studio to extend its capabilities. These extensions “plug into” Visual Studio and extend its functionality. Extensions are available in the form of macros, add-ins, and packages.



Why should you choose Visual Studio?

The main reason why Visual Studio became so popular is that it has everything which any programmer expects from any code editor with some additional and useful features. It's lightweight, fast, open-source and cross-platform nature along with other cool features gives it an extra edge over any other editor.

Notepad++



What is Notepad++ ?

Notepad++ is a free text editor for Microsoft Windows that provides additional features not found in the standard Windows text editor, Notepad. It was first released on November 24, 2003, by developer Dan Ho, and is still in active development.

Notepad++ is specially designed for editing source code. The "++" in the name is a reference to the increment operator in programming languages such as C, C++, Java, and JavaScript.

Notepad++ is useful anytime you need to make significant changes to a text file.

Notepad++ Features:

- Edit text files up to 2 GB in size (the maximum size in Windows Notepad is 58 MB).
- Edit multiple files, organized in tabs.
- Line numbering.
- Syntax highlighting for over 70 programming languages, including HTML and Windows batch files.
- Advanced find and replace, with support for regular expressions.
- Create and edit text files for different operating systems, including macOS and Linux.
- Split-screen for editing and viewing multiple files at once, or multiple parts of the same file.
- Macros for recording a sequence of editing commands to be executed repeatedly.
- Support for lines to have bookmarks.
- A plugin system for adding features to the software.



StarUML

What is StarUML?

StarUML is an open source software modeling tool that supports the UML (Unified Modeling Language) framework for system and software modeling. It is based on UML version 1.4, provides eleven different types of diagram and it accepts UML 2.0 notation. It actively supports the MDA (Model Driven Architecture) approach by supporting the UML profile concept and allowing to generate code for multiple languages.

!!!Since this evaluation, the StarUML open source software modeling tool project has been stopped and taken over by a commercial company that now sells a tool called StarUML 3!!! There is however an active open source project called WhiteStarUML that is a fork of StarUML 5.0. It provides a number of bug fixes and an improved compatibility with the modern versions of the Windows OS.

Features:

When you start a new project, StarUML proposes which approach you want to use: 4+1 (Krutch), Rational, UML components (from Cheesman and Daniels book), default or empty. Depending on the approach, profiles and/or frameworks may be included and loaded. If you don't follow a specific approach, the "empty" choice could be used. Although a project can be managed as one file, it may be convenient to divide it into many units and manage them separately if many developers are working on it together.

StarUML makes a clear conceptual distinction between models, views and diagrams. A Model is an element that contains information for a software model. A View is a visual expression of the information contained in a model, and a Diagram is a collection of view elements that represent the user's specific design thoughts.

Adobe Photoshop



What is Photoshop?

Photoshop is photo editing software that edits photos, and images should be in a raster image format. It is available in many different languages, such as English, Chinese, Japanese, Dutch, Polish, and so on. Nowadays, Photoshop is also known as Adobe Photoshop.

Adobe Photoshop is a user-friendly, most powerful, and widely used image/graphics editing software developed by Adobe. Adobe Photoshop is basically a raster-based image editing software. With multiple layers and features such as masking, image wrapping tools, alpha compositing, fluid camera rotation, and file display tools, and much more advanced tools, Photoshop can edit and compose raster images.

In 1988, Thomas and John Knoll developed the first basic version of Photoshop. Later, it was taken over by Adobe systems. Then the software has been upgraded and updated with more advanced features, a set of tools, and commands. The Photoshop CC version is the latest version of the series and it is a part of the Adobe Creative Cloud branding. The Photoshop family has some other software, consisting of Photoshop lightroom, Photoshop elements, Photoshop fix, Photoshop express, and other software.

Features of Photoshop:

With every new version, Photoshop is developed, from a simple small photo editing tool to an industry-leading software that changed the global graphic designing and multimedia industries standards. Every new version has some new features introduced, but there are a few tools that are being tested with time and remain sturdy and highly important to the designers. Here are some tools and features that are proved as the best of Adobe Photoshop:

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Layers: With the layers palette, we can draw/design different elements of your design independently in layers and then merge them up as per the order of display. It helps and enhances the power of the designer to control the flow of the design.

Colour channels: In the color channels palette we can look at particular shades that are included in the picture. In the RGB mode, we get red, green, and blue. However, when we move to a different color space, these color channels will be different, such as LAB or CMYK.

Shapes: By holding the original quality a shape layer can be easily edited with the help of a pen tool or a direct selection tool. The colors, gradients, and many other effects within the shape path can be changed anytime.

Pen tool: One of the important features of Photoshop is a Pen tool. It is used for drawing paths along with the anchor points, the creative scope it provides is limitless.

3D: The feature Photoshop 3D, we can directly import the 3 Dimensional objects into Photoshop and draw the textures directly on the Photoshop canvas. We can make a series of images related to the 3D object and choose the pose and facial expressions from the animation within Photoshop.

Usage of Photoshop :

The most basic use of Photoshop is photo editing, graphic editing, website theme designing, poster designing.

Photo Editing: Almost every photographer needs software for editing photos. Editing the photo involves actions,

- To adjust the color levels of the photo.
- Resize and Crop the photos.
- Touch-up photos, by erasing, changing the objects in the photo.
- Applying filters.



What is XAMPP?

XAMPP is an abbreviation where X stands for Cross-Platform, A stands for Apache, M stands for MYSQL, and the Ps stand for PHP and Perl, respectively. It is an open-source package of web solutions that includes Apache distribution for many servers and command-line executables along with modules such as Apache server, MariaDB, PHP, and Perl.

XAMPP helps a local host or server to test its website and clients via computers and laptops before releasing it to the main server. It is a platform that furnishes a suitable environment to test and verify the working of projects based on Apache, Perl, MySQL database, and PHP through the system of the host itself. Among these technologies, Perl is a programming language used for web development, PHP is a backend scripting language, and MariaDB is the most vividly used database developed by MySQL. The detailed description of these components is given below.

Turn Your Website Into an Instant Blog With Xampp:

Xampp is an open-source Content Management System or CMS (Content Management Suite) solution that allows businesses and individuals to quickly and easily publish, update, and manage content online. The Xampp framework provides powerful features that enable organizations to build applications without requiring a programming background. There are no programming languages or frameworks required to create a website with Xampp; the system takes care of the coding, and users are free to add features to the system. Users can even modify existing Xampp templates in order to customize their own websites with ease. This is a system for any business that needs to grow with the internet.

Prerequisites:

Before going through XAMPP tutorial in-depth, you must have a fundamental knowledge of web development languages like HTML, and PHP.

What's in XAMPP?

XAMPP has four primary components. These are:

1. **Apache:** Apache is the actual web server application that processes and delivers web content to a computer. Apache is the most popular web server online, powering nearly 54% of all websites.
2. **MySQL:** Every web application, howsoever simple or complicated, requires a database for storing collected data. MySQL, which is open source, is the world's most popular database management system. It powers everything from hobbyist websites to professional platforms like WordPress.
3. **PHP:** PHP stands for Hypertext Preprocessor. It is a server-side scripting language that powers some of the most popular websites in the world, including WordPress and Facebook. It is open source, relatively easy to learn, and works perfectly with MySQL, making it a popular choice for web developers.
4. **Perl:** Perl is a high-level, dynamic programming language used extensively in network programming, system admin, etc. Although less popular for web development purposes, Perl has a lot of niche applications.

Different versions of XAMPP may have additional components such as phpMyAdmin, OpenSSL, etc. to create full-fledged web servers.

Application areas:

An XAMPP server can be installed and used with a single executable file quickly and easily, functioning as a local test system for Linux, Windows, and Mac OS X. The software packet contains the same components that are found on common web servers. Developers have the chance to test out their projects locally and to transfer them easily to productive systems. But XAMPP isn't suitable to use as a public server, because many safety features have been deliberately left out to simplify and speed up the system for testing.

Wordpress



What Is WordPress?

WordPress is a free, open-source website creation platform. On a more technical level, WordPress is a content management system (CMS) written in PHP that uses a MySQL database. In non-geek speak, WordPress is the easiest and most powerful blogging and website builder in existence today.

WordPress is an excellent website platform for a variety of websites. From blogging to e-commerce to business and portfolio websites, WordPress is a versatile CMS. Designed with usability and flexibility in mind, WordPress is a great solution for both large and small websites.

What is a WordPress Website?

A WordPress website is any website that uses WordPress as its content management system (CMS). WordPress powers both the backend of the website (the interface where a user logs in to make changes or add new content) and the frontend (the visible part of the website that your visitors see on the web).

Here are just a few examples of the types of websites you can build with WordPress:

- Blog – A blog is a special type of website devoted to sharing thoughts, photos, reviews, tutorials, recipes and so much more. Blogs usually display the most recently-published content first.
- E-commerce website – An e-commerce website allows you to sell goods or services online and collect payment via an online payment system. You can download and install a WordPress e-commerce plugin to extend the default functionality of WordPress so you can have an online store on your website.

- **Business website** – Many businesses will benefit from having an online presence in the form of their own website.
- **Membership website** – A membership website allows you to put content behind a paywall or an account login.
- **Portfolio website** – Show off your artwork, design skills and more with a portfolio website built on WordPress.
- **Forum website** – A forum website can be a helpful place for users to ask questions or share advice. Believe it or not, many forum websites run on WordPress.
- **Event website** – Hosting an event? WordPress makes it easy for you to share your event details and sell tickets.
- **E-learning website** – Students can take online courses, track their progress, download resources and much more from an e-learning website.
- **Wedding website** – Share the details of your big day with a wedding website built on WordPress.

WordPress Features:

As a website building platform and CMS, WordPress boasts an impressive feature set. Here are just a few of the many features of WordPress.

- **SEO** – Search Engine Optimization (SEO) begins at a technical level and WordPress delivers an exceptional code base for SEO.
- **Speed** – WordPress is a lean website framework that is constantly striving to remove code “bloat” that slows down the loading speed of a website.
- **Mobile-friendly** – Most WordPress themes are now mobile-friendly or responsive out-of-the-box.
- **Media file library** – WordPress includes a built-in media library where you can upload and embed media files such as images or videos into your pages or posts. You can even perform basic edits to your images within WordPress.
- **Easy-to-use user interface** – WordPress is very easy to use with no complicated settings. If you can use a WordPress processor, you can use WordPress. WordPress also has a focus on accessibility.
- **Custom menus** – WordPress makes it easy to create navigation menus with links to your pages or custom links.
- **Built-in blog** – Adding a blog to your website is as simple as publishing a post.



About the version control system, Git, and how it works with GitHub:

About version control and Git

A version control system, or VCS, tracks the history of changes as people and teams collaborate on projects together. As developers make changes to the project, any earlier version of the project can be recovered at any time.

Developers can review project history to find out:

- Which changes were made?
- Who made the changes?
- When were the changes made?
- Why were changes needed?

Git lets developers see the entire timeline of their changes, decisions, and progression of any project in one place. From the moment they access the history of a project, the developer has all the context they need to understand it and start contributing.

How do GitHub work?

GitHub hosts Git repositories and provides developers with tools to ship better code through command line features, issues (threaded discussions), pull requests, code review, or the use of a collection of free and for-purchase apps in the GitHub Marketplace. With collaboration layers like the GitHub flow, a community of 15 million developers, and an ecosystem with hundreds of integrations, GitHub changes the way software is built.

GitHub builds collaboration directly into the development process. Work is organized into repositories where developers can outline requirements or direction and set expectations for team members.

Then, using the GitHub flow, developers simply create a branch to work on updates, commit changes to save them, open a pull request to propose and discuss changes, and merge pull requests once everyone is on the same page.

TECHNOLOGIES USED

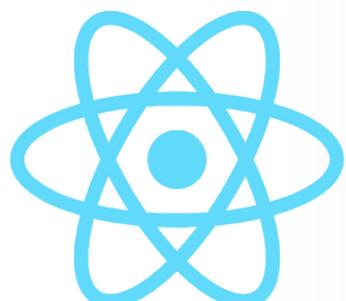
HTML



CSS



JavaScript



Data API v3

HTML



HTML stands for Hyper Text Markup Language. It is used to design web pages using markup language. HTML is the combination of Hypertext and Markup language. Hypertext defines the link between the web pages. Markup language is used to define the text document within tag which defines the structure of web pages. HTML 5 is the fifth and current version of HTML. It has improved the markup available for documents and has introduced application programming interfaces(API) and Document Object Model(DOM).

Features:

It has introduced new multimedia features which supports audio and video controls by using `<audio>` and `<video>` tags.

There are new graphics elements including vector graphics and tags.

Enrich semantic content by including `<header>` `<footer>`, `<article>`, `<section>` and `<figure>` are added.

Drag and Drop- The user can grab an object and drag it further dropping it on a new location.

Geo-location services- It helps to locate the geographical location of a client.

Web storage facility which provides web application methods to store data on web browser.

Uses SQL database to store data offline.

Allows to draw various shapes like triangle, rectangle, circle, etc.

Capable of handling incorrect syntax.
Easy DOCTYPE declaration i.e. <!doctype html>
Easy character encoding i.e. <meta charset="UTF-8">

Advantages:

All browsers supported.
More device friendly.
Easy to use and implement.
HTML 5 in integration with CSS, JavaScript, etc can help build beautiful websites.

Disadvantages:

Long codes have to be written which is time consuming.
Only modern browsers support it.
Supported Browsers: It is supported by all modern browsers.
Below examples illustrate the HTML 5 content.

Example 1:

```
<!DOCTYPE html>
<html>

<head>
    <title>HTML 5</title>
</head>

<body>
    <h4>FREE CERTIFICATE COURSES</h4>
</body>

</html>
```

Output:

FREE CERTIFICATE COURSES



CSS stands for Cascading Style Sheets. CSS is a standard style sheet language used for describing the presentation (i.e. the layout and formatting) of the web pages.

Prior to CSS, nearly all of the presentational attributes of HTML documents were contained within the HTML markup (specifically inside the HTML tags); all the font colors, background styles, element alignments, borders and sizes had to be explicitly described within the HTML.

As a result, development of the large websites became a long and expensive process, since the style information were repeatedly added to every single page of the website.

To solve this problem CSS was introduced in 1996 by the World Wide Web Consortium (W3C), which also maintains its standard. CSS was designed to enable the separation of presentation and content. Now web designers can move the formatting information of the web pages to a separate style sheet which results in considerably simpler HTML markup, and better maintainability.

CSS3 is the latest version of the CSS specification. CSS3 adds several new styling features and improvements to enhance the web presentation capabilities.

What You Can Do with CSS

There are lot more things you can do with CSS.

You can easily apply same style rules on multiple elements.

You can control the presentation of multiple pages of a website with a single style sheet.

You can present the same page differently on different devices.

You can style dynamic states of elements such as hover, focus, etc. that isn't possible otherwise.

You can change the position of an element on a web page without changing the markup.

The list does not end here, there are many other interesting things that you can do with CSS.

Advantages of Using CSS

- CSS plays an important role, by using CSS you simply got to specify a repeated style for element once & use it multiple times as because CSS will automatically apply the required styles.
- The main advantage of CSS is that style is applied consistently across variety of sites. One instruction can control several areas which is advantageous.
- Web designers needs to use few lines of programming for every page improving site speed.

Disadvantages of CSS:

- CSS, CSS 1 up to CSS3, result in creating of confusion among web browsers.
- With CSS, what works with one browser might not always work with another. The web developers need to test for compatibility, running the program across multiple browsers.
- There exists a scarcity of security.

Syntax:

```
p {  
    color: red;  
    text-align: center;  
}
```

- p is a selector in CSS (it points to the HTML element you want to style: <p>).
- color is a property, and red is the property value
- text-align is a property, and center is the property value

Example:

```
<!DOCTYPE html>
<html>
<head>
<style>
p {
  color: green;
}
</style>
</head>
<body>

<p>Hello World!</p>
<p>These paragraphs are styled with CSS.</p>

</body>
</html>
```

Output:

Hello World!
These paragraphs are styled with CSS



JavaScript

JavaScript is the world most popular lightweight, interpreted compiled programming language. It is also known as scripting language for web pages. It is well-known for the development of web pages, many non-browser environments also use it. JavaScript can be used for Client-side developments as well as Server-side developments.

JavaScript can be added to your HTML file in two ways:

- Internal JS: We can add JavaScript directly to our HTML file by writing the code inside the `<script>` tag. The `<script>` tag can either be placed inside the `<head>` or the `<body>` tag according to the requirement.
- External JS: We can write JavaScript code in other file having an extension `.js` and then link this file inside the `<head>` tag of the HTML file in which we want to add this code.

What can we build using JavaScript ?

JavaScript is a widely-used programming language. Given below are some domains/products that can be built using JavaScript:

- Websites: JavaScript helps us to add behavior of our website. It helps users to interact with the website. For eg. clicking on buttons, saving details, uploading details on the website, etc.
- Web Servers: We can make robust server applications using JavaScript. To be precise we use JavaScript frameworks like Node.js and Express.js to build these servers.
- Game Development: In Game Development industry, JavaScript is used widely. With the addition of HTML5 Canvas, it's now possible to make 2D and 3D games in JavaScript very efficiently.
- 3D Drawings: JavaScript in addition with HTML Canvas is used to make three-dimensional graphics.

- Mobile Apps: Mobile applications are the most popular modes of communicating these days. JavaScript also used to design mobile applications. There are many JavaScript frameworks using which we can make android, IOS, and hybrid apps.
- Smartwatch Apps: The popular smartwatch maker Pebble has created Pebble.js, a small JavaScript framework that allows a developer to create an application for the Pebble line of watches in JavaScript.

Why to learn JavaScript ?

JavaScript is the most popular and hence the most loved language around the globe. Apart from this, there are abundant reasons to learn it. Below are a listing of few important points:

- No need of compilers: Since JavaScript is an interpreted language, therefore it does not need any compiler for compilations.
- Used both Client and Server-side: Earlier JavaScript was used to build client-side applications only, but with the evolution of its frameworks namely Node.js and Express.js, it is now widely used for building server-side applications too.
- Helps to build a complete solution: As we saw, JavaScript is widely used in both client and server-side applications, therefore it helps us to build an end-to-end solution to a given problem.
- Used everywhere: JavaScript is so loved because it can be used anywhere. It can be used to develop websites, games or mobile apps, etc.
- Huge community support: JavaScript has a huge community of users and mentors who love this language and take it's legacy forward.

Advantages of JavaScript:

- Regardless of where you host JavaScript, it always gets executed on client environment to save lots of a bandwidth and make execution process fast.
- The biggest advantage to JavaScript having a ability to support all modern browsers and produce an equivalent result.

Disadvantages of JavaScript:

- This may be difficult to develop large applications, although you'll also use the TypeScript overlay.
- The main problem or disadvantage in JavaScript is that the code is always visible to everyone anyone can view JavaScript code.

Basic Syntax:

```
<script>
document.write("Basic Print method in JavaScript");
</script>
```

Example: It is the basic example of JavaScript code embedded in HTML code.

```
<!DOCTYPE html>
<html lang="en">

<head>
  <title>
    Basic Example to Describe JavaScript
  </title>
</head>

<body>

  <!-- JavaScript code can be embedded inside
  head section or body section -->
<script>
  console.log("Welcome to Skill Learner Site");
</script>
</body>

</html>
```

Output:

The output will display on console.

Welcome to Skill Learner Site



The term PHP is an acronym for Hypertext Preprocessor. It is a server-side scripting language that is used for web development. It can be easily embedded with HTML files. HTML codes can also be written in a PHP file. The PHP codes are executed on the server-side whereas HTML codes are directly executed on the browser.

Why we learn PHP ?

It is one of the widely used open-source general-purpose scripting language that is used for backend Development. Apart from this, let's see why we should learn it.

- Easy to Learn: It is easier to learn for anyone who has come across to any programming language for the first time.
- Free of Cost: Since it is an open-source language, therefore developers are allowed to use its components and all methods for free.
- Flexible: Since It is a dynamically typed language, therefore there are no hard rules on how to build features using it.
- Supports nearly all databases: It supports all the widely used databases, including MySQL, ODBC, SQLite etc.
- Secured: It has multiple security levels provides us a secure platform for developing websites as it has multiple security levels.
- Huge Community Support: It is loved and used by a huge number of developers. The developers share their knowledge with other people of the community that want to know about it.

PHP is getting used widely in developing web-based and other applications across all domains. for a few of technology supported which PHP applications are developed listed below :

- Content Management System.
- Web-based applications and development of sites.
- E-commerce websites and applications.
- Data Analytics and Representation.
- Processing of Images.
- Graphical interface design based applications.
- Developing the features of Flash.

Advantages of PHP :

1. Most important advantage of PHP is that it's open source and free from cost. It can be downloaded at anywhere and readily available to use for event of web applications.
2. It is platform independent. PHP based applications can run on any OS like UNIX, Linux and Windows, etc.
3. Application can easily be loaded which are based on PHP and connected to database. It's mainly used due to its faster rate of loading over slow internet speed than another programming language.

Disadvantages of PHP :

1. It is not that secure due to its open-source, because the ASCII text file are often easily available.
2. It is not suitable for giant content-based web applications.
3. It has a weak type, which can cause incorrect data and knowledge to user.

Basic PHP Syntax:

```
<?php  
// PHP code goes here  
?>
```

Example:

```
<!DOCTYPE html>  
<html>  
<body>  
<?php  
echo "Thanks for Visiting Our Site!";  
?>  
</body>  
</html>
```

Output:

Thanks for Visiting Our Site!



What is MySQL?

MySQL is currently the most popular database management system software used for managing the relational database. It is open-source database software, which is supported by Oracle Company. It is fast, scalable, and easy to use database management system in comparison with Microsoft SQL Server and Oracle Database. It is commonly used in conjunction with PHP scripts for creating powerful and dynamic server-side or web-based enterprise applications.

MySQL is a Relational Database Management System (RDBMS) software that provides many things, which are as follows:

- It allows us to implement database operations on tables, rows, columns, and indexes.
- It defines the database relationship in the form of tables (collection of rows and columns), also known as relations.
- It provides the Referential Integrity between rows or columns of various tables.
- It allows us to update the table indexes automatically.
- It uses many SQL queries and combines useful information from multiple tables for the end-users.

Advantages of MySQL:

- MySQL is a Relational Database Management System or RDBMS which means that it stores and presents data in tabular form, organized in rows and columns.
- MySQL is more secure as it consists of a solid data security layer to protect sensitive data from intruders and passwords in MySQL are encrypted.
- MySQL is available for free to download and use from the official site of MySQL.
- MySQL is compatible with most of the operating systems, including Windows, Linux, NetWare, Novell, Solaris and other variations of UNIX.
- MySQL provides the facility to run the clients and the server on the same computer or on different computers, via internet or local network.
- MySQL has a unique storage engine architecture which makes it faster, cheaper and more reliable.

Disadvantages of MySQL:

- MySQL is not very efficient in handling very large databases.
- MySQL doesn't have as good a developing and debugging tool as compared to paid databases.
- MySQL versions less than 5.0 do not support COMMIT, stored procedure and ROLE.
- MySQL is prone to data corruption as it inefficient in handling transactions.
- MySQL does not support SQL check constraints.

Basic Syntax:

SQL SELECT Statement

```
SELECT column1, column2....columnN  
FROM table_name;
```

SQL WHERE Clause

```
SELECT column1, column2....columnN  
FROM table_name  
WHERE CONDITION;
```

Example:

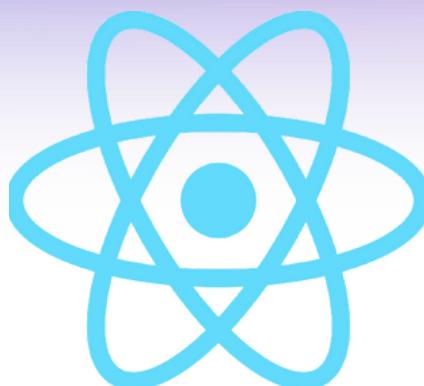
To create and populate the example table, use these statements:

```
CREATE TABLE shop (  
    article INT UNSIGNED DEFAULT '0000' NOT NULL,  
    dealer CHAR(20)    DEFAULT "" NOT NULL,  
    price   DECIMAL(16,2) DEFAULT '0.00' NOT NULL,PRIMARY KEY(article,  
    dealer));INSERT INTO shop VALUES(1,'A',3.45),(1,'B',3.99),(2,'A',10.99),(3,'B',1.45),  
(3,'C',1.69),(3,'D',1.25),(4,'D',19.95);
```

After issuing the statements, the table should have the following contents:

```
SELECT * FROM shop ORDER BY article;
```

article	dealer	price
1	A	3.45
1	B	3.99
2	A	10.99
3	B	1.45
3	C	1.69
3	D	1.25
4	D	19.95



What Is React?

React is a JavaScript-based UI development library. Facebook and an open-source developer community run it. Although React is a library rather than a language, it is widely used in web development. The library first appeared in May 2013 and is now one of the most commonly used frontend libraries for web development.

React offers various extensions for entire application architectural support, such as Flux and React Native, beyond mere UI.

Why React?

React's popularity today has eclipsed that of all other front-end development frameworks. Here is why:

- Easy creation of dynamic applications: React makes it easier to create dynamic web applications because it requires less coding and offers more functionality, as opposed to JavaScript, where coding often gets complex very quickly.
- Improved performance: React uses Virtual DOM, thereby creating web applications faster. Virtual DOM compares the components' previous states and updates only the items in the Real DOM that were changed, instead of updating all of the components again, as conventional web applications do.

What are the Pros of React?

1. It is easy to learn.

React is much easier to learn and use. It comes with a good supply of documentation, tutorials, and training resources.

2. Creating Dynamic Web Applications Becomes Easier.

To create a dynamic web application specifically with HTML strings was tricky because it requires a complex coding, but React JS solved that issue and makes it easier.

3. Known to be SEO Friendly.

Traditional JavaScript frameworks have an issue in dealing with SEO. The search engines generally having trouble in reading JavaScript-heavy applications.

What are the Cons of React?

1. The high pace of development

The high pace of development has an advantage and disadvantage both. In case of disadvantage, since the environment continually changes so fast, some of the developers not feeling comfortable to relearn the new ways of doing things regularly.

2. Poor Documentation

It is another cons which are common for constantly updating technologies. React technologies updating and accelerating so fast that there is no time to make proper documentation.

3. View Part

ReactJS Covers only the UI Layers of the app and nothing else. So you still need to choose some other technologies to get a complete tooling set for development in the project.

Features of React

React offers some outstanding features that make it the most widely adopted library for frontend app development. Here is the list of those salient features.

JSX

JSX is a JavaScript syntactic extension. It's a term used in React to describe how the user interface should seem.

Virtual Document Object Model (DOM)

The Virtual DOM is React's lightweight version of the Real DOM. Real DOM manipulation is substantially slower than virtual DOM manipulation.

Extensions

React goes beyond just being a UI framework; it contains many extensions that cover the entire application architecture. It helps the building of mobile apps and provides server-side rendering.

Example:

The smallest React example looks like this:

```
const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(<h1>Hello, world!</h1>);
```

It displays a heading saying “Hello, world!” on the page.



What is Java?

Java is a programming language and a platform. Java is a high level, robust, object-oriented and secure programming language.

Java was developed by Sun Microsystems (which is now the subsidiary of Oracle) in the year 1995. James Gosling is known as the father of Java. Before Java, its name was Oak. Since Oak was already a registered company, so James Gosling and his team changed the name from Oak to Java.

Platform: Any hardware or software environment in which a program runs, is known as a platform. Since Java has a runtime environment (JRE) and API, it is called a platform.

Why is Java so popular?

Java has become a popular and useful programming language because of its excellent features, which play a very important role in contributing to the popularity of this language. The Java features are called “Java BuzzWords”.

Sun MicroSystems officially describes Java with the following list of features:

- Simple and Familiar
- Compiled and Interpreted
- Platform Independent
- Portable
- Architectural Neutral
- Object-Oriented
- Robust
- Secure
- Distributed
- Multi-threaded and Interactive
- High Performance
- Dynamic and Extensible

Advantages:

1. Simple

Java is a simple programming language since it is easy to learn and easy to understand. Its syntax is based on C++, and it uses automatic garbage collection; therefore, we don't need to remove the unreferenced objects from memory.

2. Object-Oriented

Java uses an object-oriented paradigm, which makes it more practical. Everything in Java is an object which takes care of both data and behavior. Java uses object-oriented concepts like object, class, inheritance, encapsulation, polymorphism, and abstraction.

3. Secured

Java is a secured programming language because it doesn't use Explicit pointers. Also, Java programs run inside the virtual machine sandbox. JRE also provides a classloader, which is used to load the class into JVM dynamically.

Disadvantages

1. Performance

Java needs to be interpreted during runtime, which allows it to run on every operating system, but it also makes it perform slower than the languages like C and C++. On the other hand, the C++ program needs to be compiled on each operating system, directly to binary and therefore runs faster.

2. Memory consumption

Java program consumes more memory since it runs on top of Java virtual machine.

Example:

Simple.java

```
1.class Simple{  
2.    public static void main(String args[]){  
3.        System.out.println("Hello Java");  
4.    }  
5.}
```

Output: Hello Java



Data API v3

The **YouTube Application Programming Interface** (YouTube API) allows developers to access video statistics and YouTube channels data via two types of calls, REST and XML-RPC. Google describe YouTube's API resources as "APIs and Tools that let you bring the YouTube experience to your webpage, application or device."

Players and Player APIs

The Players and Player APIs section identifies ways you can let your users watch YouTube videos in your application and control the playback experience. With an embedded YouTube player, you can integrate the YouTube video playback experience directly in your web page or application. You can use player parameters to customize the player's appearance, and you can also use Player APIs to control the player directly from your web page or app.

YouTube API V3

The YouTube Data API (v3) lets you incorporate YouTube functionality into your own application. You can use the API to fetch search results and to retrieve, insert, update, and delete resources like videos or playlists.

In conjunction with the YouTube Player APIs and the YouTube Analytics API, the API lets your application provide a full-fledged YouTube experience that includes search and discovery, content creation, video playback, account management, and viewer statistics.

Advantages:

A great advantage of using YouTube's API's is that 3rd party companies are able to arrange pay per click coupled with advertising for your videos. This allows the video uploader to receive money for the work they have put into their videos.

Disadvantages:

YouTube also does not allow videos to run whilst the Android device is sleeping. This can be seen as an annoyance for some users. Particularly if the user is trying to use YouTube as a replacement music player. Quotas limit the activity of some users.



PANTHEON

What is Pantheon.io?

Pantheon is a web ops platform for open-source Drupal and WordPress websites. It is an app-specific PaaS provider, sold on a monthly subscription basis, with several support tiers available.

Technologically, Pantheon applications run as software-as-a-service instead of running on users' own servers. Pantheon's service is built on top of the Google Cloud Platform. Pantheon Systems, Inc. is a privately held San Francisco-based corporation founded in 2010 by Zack Rosen, David Strauss, Josh Koenig, and Matt Cheney.

Features:

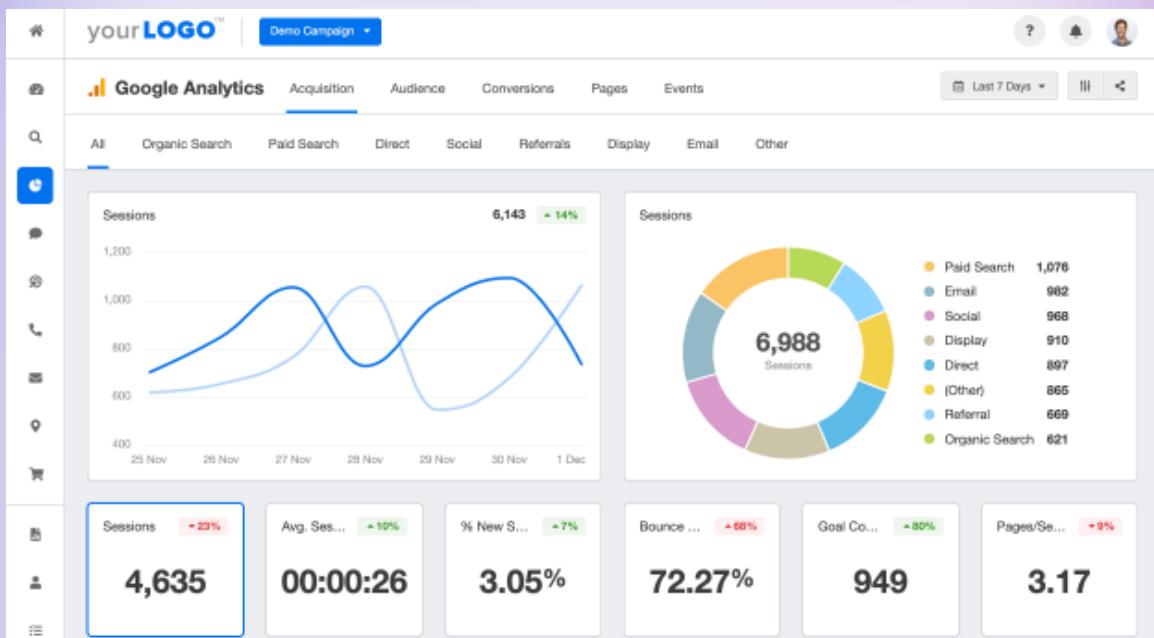
Pantheon is a combination of web development tools in the cloud and web hosting and management services. It is based in the cloud, and the service is free for developers. Developers have a choice between Drupal 7, Drupal 8, Drupal 9, WordPress, and the installation of profiles like Open Atrium. Data can be imported onto Pantheon automatically if the business has an existing Drupal-based website. Pantheon Multidev does for a company's website what software-defined data centers do for its infrastructure. Each member of a team can use all the services that power a site on demand, developing on a single platform. As a result, large websites launch faster and cost less to manage over time.

Based on Pantheon's multi-tenant containerized architecture, Multidev spins up in minutes, with no need for additional infrastructure or virtual servers.

Pantheon makes it easy to deploy different versions of a site on test servers and the live site, as well as backup servers.

We have used Pantheon for hosting our site "Skill Learner".

GOOGLE ANALYTICS



What is Google Analytics?

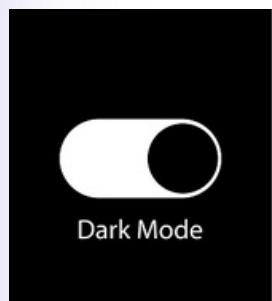
Google Analytics is a web analytics service that provides statistics and basic analytical tools for search engine optimization (SEO) and marketing purposes. The service is part of the Google Marketing Platform and is available for free to anyone with a Google account. Google Analytics is used to track website performance and collect visitor insights. It can help organizations determine top sources of user traffic, gauge the success of their marketing activities and campaigns, track goal completions (such as purchases, and adding products to carts), discover patterns and trends in user engagement and obtain other visitor information such as demographics.

Small and medium-sized retail websites often use Google Analytics to obtain and analyze various customer behavior analytics, which can be used to improve marketing campaigns, drive website traffic and better retain visitors.

How does Google Analytics work?

Google Analytics acquires user data from each website visitor through the use of page tags. A JavaScript page tag is inserted into the code of each page. This tag runs in the web browser of each visitor, collecting data and sending it to one of Google's data collection servers. Google Analytics can then generate customizable reports to track and visualize data such as the number of users, bounce rates, average session durations, sessions by channel, page views, goal completions, and more.

FEATURES



Dark Mode



Light Mode



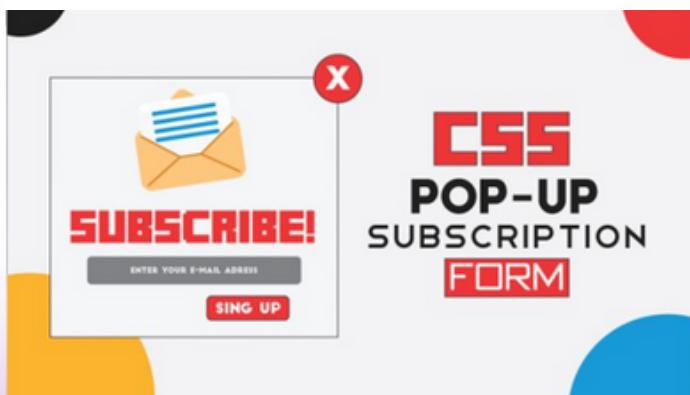
LiveChat



Text



Speech



PROGRESSIVE WEB APP FEATURE



What is PWA?

A progressive web application (PWA), commonly known as a progressive web app, is a type of application software delivered through the web, built using common web technologies including HTML, CSS, JavaScript, and WebAssembly. It is intended to work on any platform that uses a standards-compliant browser, including both desktop and mobile devices.

Since a progressive web app is a type of webpage or website known as a web application, they do not require separate bundling or distribution. Developers can just publish the web application online, ensure that it meets baseline "installability requirements", and users will be able to add the application to their home screen. Publishing the app to digital distribution systems like Apple App Store or Google Play is optional.

Google Play Store App:

Applications are available through Google Play either free of charge or at a cost. They can be downloaded directly on an Android device through the proprietary Google Play Store mobile app or by deploying the application to a device from the Google Play website. Applications utilizing hardware capabilities of a device can be targeted to users of devices with specific hardware components, such as a motion sensor (for motion-dependent games) or a front-facing camera (for online video calling).

The Google Play Store had over 82 billion app downloads in 2016 and reached over 3.5 million apps published in 2017, while after a purge of apps is back to over 3 million. It has been the subject of multiple issues concerning security, in which malicious software has been approved and uploaded to the store and downloaded by users, with varying degrees of severity.

For our project we used App Creator Web Software , as feature of downloadable app of our site .

The site link is <https://www.appcreator24.com>



LiveChat

What is live chat?

Live chat is a medium that allows your business to engage with your website visitors in real-time, via messaging. The software that enables live chat is commonly referred to as live chat software or customer messaging software. You can use live chat software to initiate conversations with first-time website visitors, interact with returning customers, and support your existing users. It is a modern, continuous, and contextual way to drive more engagement, delight customers, and retain customers for the long haul.

Live chat offers a personalized customer experience, better brand interactions, a competitive edge, and a way to feel your customers' pulse. Implementing a live chat solution for your business can be used by your marketing, sales, and customer support teams and be beneficial across your customer's journey.

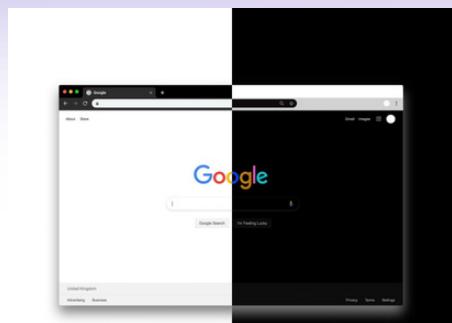
Why do you need live chat software?

Customers need a live chat to get quick and convenient answers to their questions on a website. Helpdesk teams need a live chat to solve customer problems faster, support them better, and engage them better.

Live chat is incredibly valuable for online businesses to capture visitor information, reduce bounce rate, and bring down the number of shopping cart abandonment. Similarly, live chat software can help B2B businesses to launch campaigns based on user behavior, deploy interactive chatbots to engage with them, or offer proactive support.

For our project we used MyLiveChat Software, as feature of chating with customer.
The site link is <https://www.mylivechat.com>

DARK MODE FEATURE



What is Dark Mode?

Light-on-dark color scheme —also called black mode, dark mode, dark theme, night mode, or lights-out (mode)— is a color scheme that uses light-colored text, icons, and graphical user interface elements on a dark background. It is often discussed in terms of computer user interface design and web design. Many modern websites and operating systems offer the user an optional light-on-dark display mode.

Some users find dark mode displays more visually appealing, and they can reduce power consumption[dubious – discuss] as well as eye strain. Displaying white on full brightness uses roughly six times as much power as pure black on a 2016 Google Pixel, which has an OLED display. Most modern operating systems support an optional light-on-dark color scheme.

Some argue that a color scheme with light text on a dark background is easier to read on the screen, because the lower overall brightness causes less eyestrain. Others argue to the contrary. The caveat is that most pages on the web are designed for white backgrounds; GIF and PNG images with a transparency bit instead of alpha channels tend to show up with choppy outlines, as well as causing problems with other graphical elements.

CSS example:

```
@media (prefers-color-scheme: dark) {  
    body {  
        color: #ccc;  
        background: #222;  
    }  
}
```

JavaScript example:

```
if (window.matchMedia('prefers-color-scheme: dark').matches) {  
    dark();  
}
```

VOICE SEARCH FEATURE



What is Voice search?

Voice search, also called voice-enabled, allows the user to use a voice command to search the Internet, a website, or an app.

In a broader definition, voice search includes open-domain keyword query on any information on the Internet, for example in Google Voice Search, Cortana, Siri and Amazon Echo. Voice search is often interactive, involving several rounds of interaction that allows a system to ask for clarification. Voice search is a type of dialog system.

Voice search is not a replacement for typed search. Rather the search terms, experience and use cases can differ heavily depending on the input type. Voice searching is a method of search which allows users to search using spoken voice commands rather than typing. The search can be done on any device with a voice input.

Advantages of Voice and Speech Recognition technology:

Talking is faster than typing!

Voice commands are a far more efficient tool than typing a message. Advancements are being made in technology to make life easier and voice recognition is being built-in to more devices to help boost convenience and efficiency.

Voice recognition boosts productivity levels.

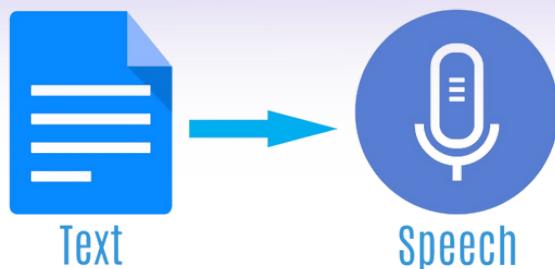
Voice recognition and speech activation is being developed for a whole myriad of reasons. The most essential role it may have is in the workplace where it can provide support and assistance to task-management duties.

Drawbacks of voice and speech recognition:

Error and misinterpretation of words.

Not all words are accurately interpreted with voice recognition. It is far easier for a human to decode words and turn it into meaning, than it is for voice recognition software to do so.

TEXT TO SPEECH FEATURE



What is Text to Speech?

Text-to-speech (TTS) is a type of assistive technology that reads digital text aloud. It's sometimes called "read aloud" technology. TTS can take words on a computer or other digital device and convert them into audio. TTS is very helpful for kids who struggle with reading, but it can also help kids with writing and editing, and even focusing.

How text-to-speech works?

TTS works with nearly every personal digital device, including computers, smartphones and tablets. All kinds of text files can be read aloud, including Word and Pages documents. Even online web pages can be read aloud.

The voice in TTS is computer-generated, and reading speed can usually be sped up or slowed down. Voice quality varies, but some voices sound human. There are even computer-generated voices that sound like children speaking.

Many TTS tools highlight words as they are read aloud. This allows kids to see text and hear it at the same time.

Some TTS tools also have a technology called optical character recognition (OCR). OCR allows TTS tools to read text aloud from images. For example, your child could take a photo of a street sign and have the words on the sign turned into audio.

It helps to turn all your website articles into high-quality audio in less than minutes.

- Increase User Engagement
- Improve Accessibility
- Grow Your Subscribers

WebsiteVoice API has been used for our project.

The site link is <https://websitevoice.com/>

PUSH NOTIFICATION FEATURE



What is Push Notification?

Push notifications are clickable pop-up messages that appear on your users' browsers irrespective of the device they're using or the browser they're on. They serve as a quick communication channel enabling companies to convey messages, offers, or other information to their customers. Subscribers can be anywhere on the browser and still receive these messages as long as they're online or have their browsers running on their devices.

Introduced in 2009, this digital marketing channel is newer than most existing ones. Even though it has gained significant momentum over the past few years, there is still a wide gap between the strategic implementation of this newer method and others. Marketers are still discovering use cases for push notifications, but they've observed that push notifications do increase repeat visits, user retention, and re-engagement.

We have been used Mailchimp as a Push Notificaion Feature.

The website link: <https://mailchimp.com/>

What Is Mailchimp?

Mailchimp is a comprehensive email marketing platform that fulfills all your requirements of email correspondence with customers, affiliates, and other stakeholders. Unlike many other all-in-one marketing and automation platforms, Mailchimp is a web-based application. This means you can use it just like a website on any web browser without needing to download and install a heavy software program on your devices.

Apart from facilitating your email marketing with its logistical resources (mailing list management, template creation, segmentation, automation, etc.), Mailchimp also offers analytical features so that you can determine how you have been faring with your email.

It is an all-in-one tool where you can manage your mailing lists, create custom email templates, and nurture and automate your entire marketing campaigns. Enterprises looking to leverage email marketing need a tool, such as Mailchimp, to run their campaigns like a well-oiled machine.

SITE MAPS



What is Site Maps?

A site map (or sitemap) is a list of pages of a web site within a domain.

There are three primary kinds of site map:

Site maps used during the planning of a Web site by its designers.

Human-visible listings, typically hierarchical, of the pages on a site.

Structured listings intended for web crawlers such as search engines.

For use by search engines and other crawlers, there is a structured format, the XML Sitemap, which lists the pages in a site, their relative importance, and how often they are updated. This is pointed to from the robots.txt file and is typically called sitemap.xml. The structured format is particularly important for web sites which include pages that are not accessible through links from other pages, but only through the site's search tools or by dynamic construction of URLs in JavaScript or Adobe Flash.

They also act as a navigation aid by providing an overview of a site's content at a single glance.

Examples of Site Maps From Our Site:

#	URL	Last Modified
1	http://dev-learn-skills-free.pantheonsite.io/privacy-policy/	2022-05-01T07:07:36Z
2	http://dev-learn-skills-free.pantheonsite.io/student-registration/	2022-03-27T06:14:07Z
3	http://dev-learn-skills-free.pantheonsite.io/shop/	2022-03-27T06:18:31Z
4	http://dev-learn-skills-free.pantheonsite.io/cart/	2022-03-27T06:18:32Z
5	http://dev-learn-skills-free.pantheonsite.io/checkout/	2022-03-27T06:18:32Z
6	http://dev-learn-skills-free.pantheonsite.io/my-account/	2022-03-27T06:18:32Z
7	http://dev-learn-skills-free.pantheonsite.io/home/	2022-03-30T16:09:37Z
8	http://dev-learn-skills-free.pantheonsite.io/all-courses/	2022-03-29T03:35:06Z
9	http://dev-learn-skills-free.pantheonsite.io/about-us/	2022-05-08T07:32:40Z

FREE CERTIFICATE



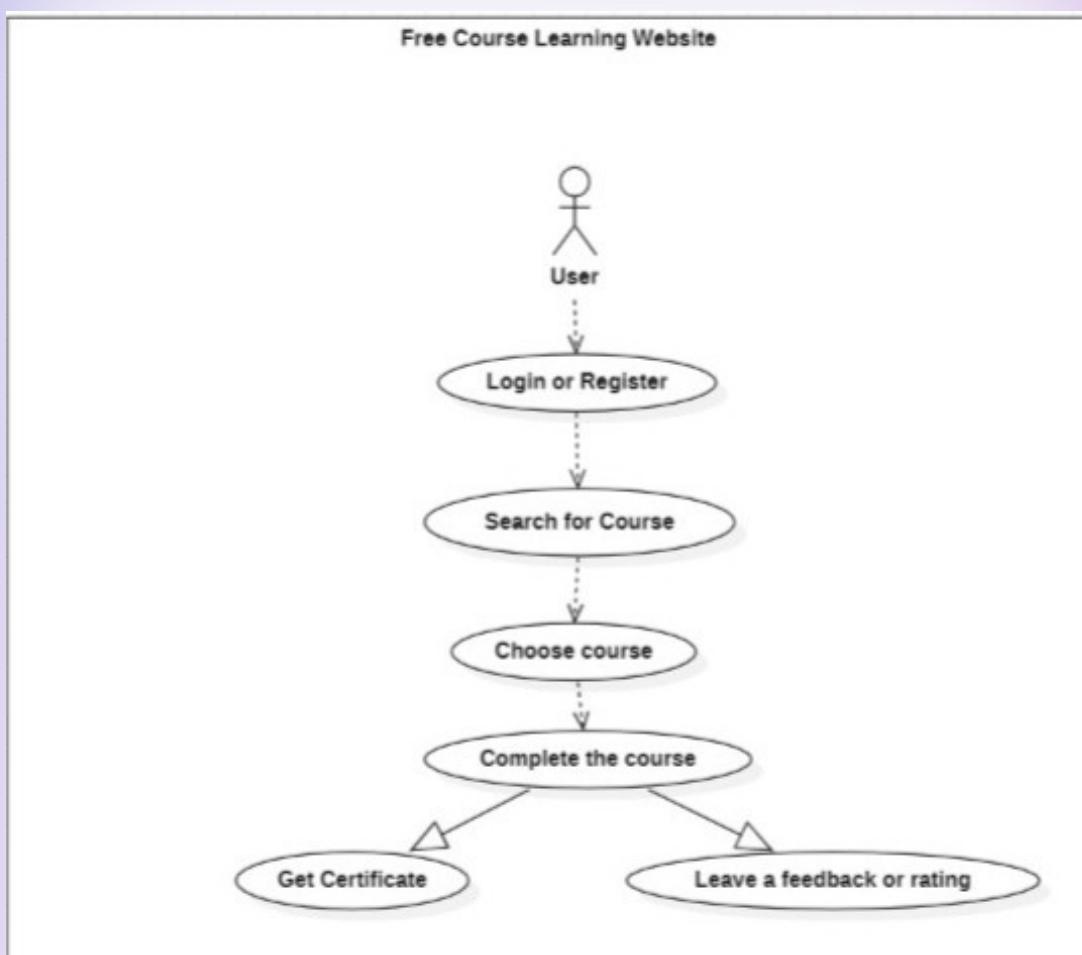
Students will also get free certificate for every skill learned by them & this will help to showcase their skill to the world & scale their career.

Certificates provided by us is a professional & authentic certificate, we have also provided QR code Scanner through which any one can verify by scanning the certificate.

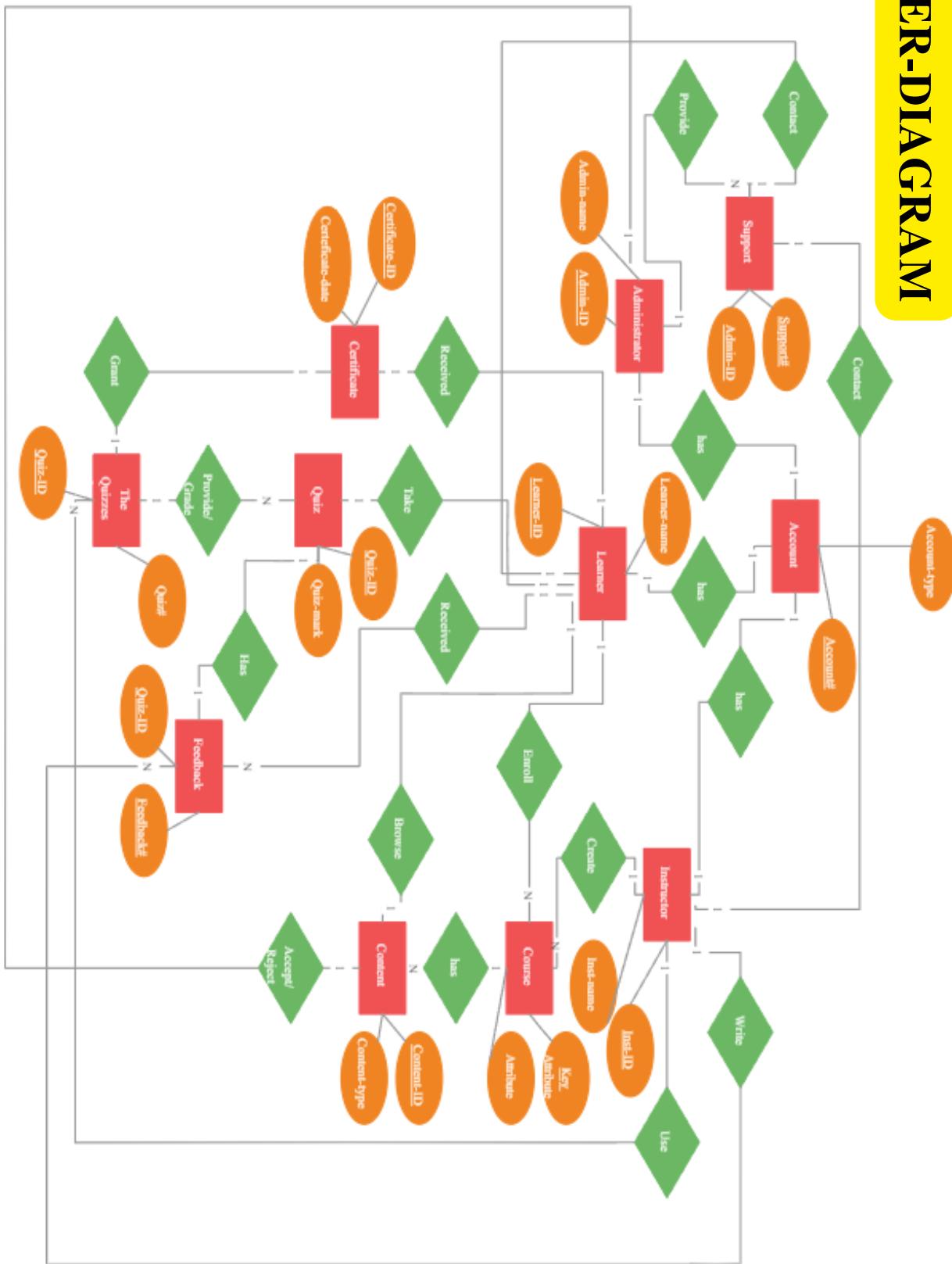
This Certificates:-

- serve as proof of achievements, enhances professional credibility.
- Extends knowledge and skills, preparing you for more job responsibilities.
- Serves as portable proof of ability.
- Enriches self-image and reputation among peers.
- Improves career opportunities-promotion, pay increases, job portability.
- Validation of knowledge.
- Increased marketability.
- Increased earning power.
- Enhanced academic performance.
- Improved reputation.
- Increased confidence.
- Respect from peers.

USE CASE DIAGRAM



ER-DIAGRAM



SCREENSHOTS

The screenshot shows the homepage of the SKILL Learner website. At the top, there's a navigation bar with links for 'HOME', 'ALL COURSES', 'BLOG', 'ABOUT US', 'CONTACT US', 'MY DASHBOARD', and a 'DOWNLOAD APP' button. Below the navigation is a large blue banner with the text 'GET FREE COURSES WITH FREE CERTIFICATES' and a subtext 'Transform yourself by learning in-demand, interesting and job ready skills.' There are social media sharing icons on the left and a 'GET STARTED FOR FREE' button at the bottom right. A sidebar on the left contains icons for LinkedIn, Pinterest, YouTube, Instagram, Facebook, and a plus sign.

This screenshot shows the 'POPULAR COURSES' section. It features four course cards: 'WEB DEVELOPMENT' (Instructor), 'SCIENCE OF GETTING RICH' (Instructor), 'PHOTOGRAPHY' (Instructor), and 'ADOBE PHOTOSHOP' (Instructor). Each card includes a thumbnail image, the course title, the instructor name, and a 'Leave a message' button. Navigation arrows are located above and below the cards.

The 'LATEST NEWS' section displays three articles: 'How to Make Online Learning Work for you' (March 31, 2022), '5 Benefits of Online Learning vs Face to face Classroom' (April 8, 2022), and '5 Reasons Why Online Learning in 2022 will Be the Future of Education' (April 3, 2022). Each article has a thumbnail image, a date, an instructor name, and a speaker icon indicating audio content.

The footer is divided into several sections: 'COMPANY' (Blog, About Us), 'LINKS' (Home, All Courses), 'RECOMMENDED' (App Development, Cyber Security), and 'SUPPORT' (Profile, Privacy Policy). The footer also features the SKILL Learner logo and a 'Leave a message' button.

Have any question? [\(+91\) 8975871086](#) bscproject22@gmail.com

[HOME](#) [ALL COURSES](#) [BLOG](#) [ABOUT US](#) [CONTACT US](#) [MY DASHBOARD](#) [DOWNLOAD APP](#)

ALL COURSES

Home > All courses

Showing 1-9 of 26 results [Newly published](#) [Search](#)



Instructor



Instructor



Instructor

[Leave a message](#)

Course categories

- App Development (2)
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- Marketing (3)
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3 Courses



Writing
3 Courses



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TESTING



What Is Web Testing?

Web testing is a software testing practice to test websites or web applications for potential bugs. It's a complete testing of web-based applications before making them live.

A web-based system needs to be checked completely from end to end before it goes live for end users. By performing website testing, an organization can make sure that the web-based system is functioning properly and can be accepted by real-time users.

The UI design and functionality are the captains of website testing.

1) Functionality Testing

Test for – all the links in web pages, database connections, forms used for submitting or getting information from the user in the web pages, Cookie testing, etc.

Check out all the links:

- Test the outgoing links from all the pages to the specific domain under test.
- Test all internal links.
- Test links jumping on the same page.
- Test links are used to send emails to admin or other users from web pages.
- Test to see if there are any orphan pages.
- Finally, link checking includes, checking for broken links in all the above-mentioned links.

2) Usability Testing

Usability testing is the process by which the human-computer interaction characteristics of a system are measured, and weaknesses are identified for correction.

- Ease of learning
- Navigation
- Subjective user satisfaction
- General appearance

3) Interface Testing

In web testing, the server-side interface should be tested. This can be done by verifying that the communication is done properly. The compatibility of the server with software, hardware, network, and database should be tested.

The main interfaces are:

- Web server and application server interface
- Application server and Database server interface.

4) Compatibility Testing

The compatibility of your website is a very important testing aspect.

See which compatibility test to be executed:

- Browser compatibility
- Operating system compatibility
- Mobile browsing

5) Performance Testing

The web application should sustain a heavy load. Web performance testing should include:

- Web Load Testing
- Web Stress Testing

Test application performance at different internet connection speeds.

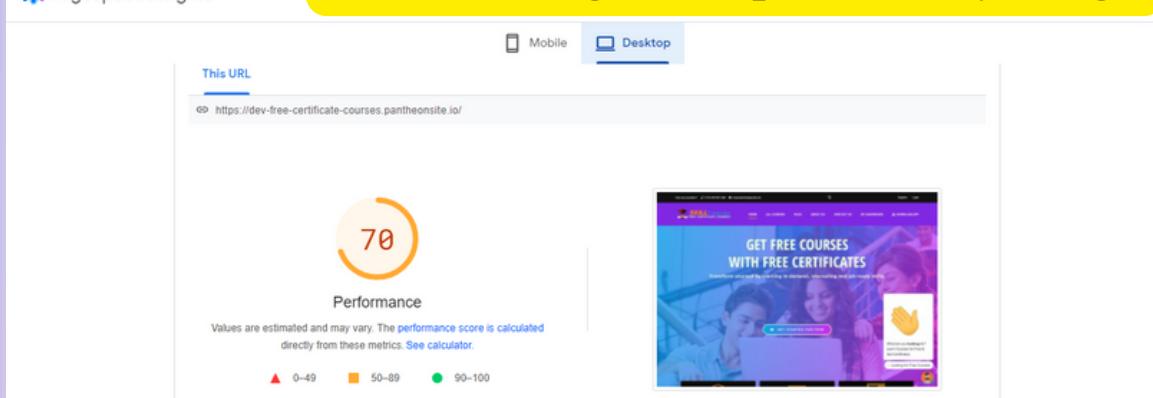
6) Security Testing

The primary reason for testing the security of a web is to identify potential vulnerabilities and subsequently repair them.

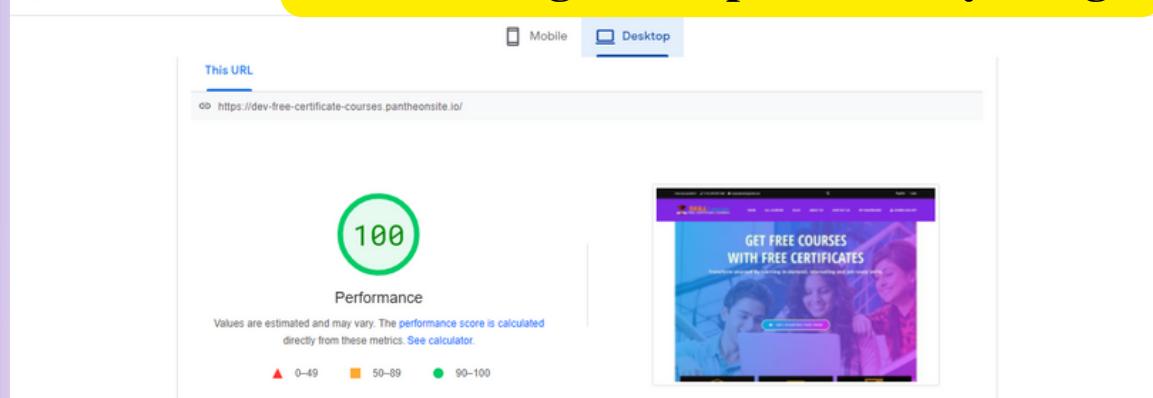
- Network Scanning
- Vulnerability Scanning
- Password Cracking
- Log Review
- Integrity Checkers
- Virus Detection

TESTING SCREENSHOTS

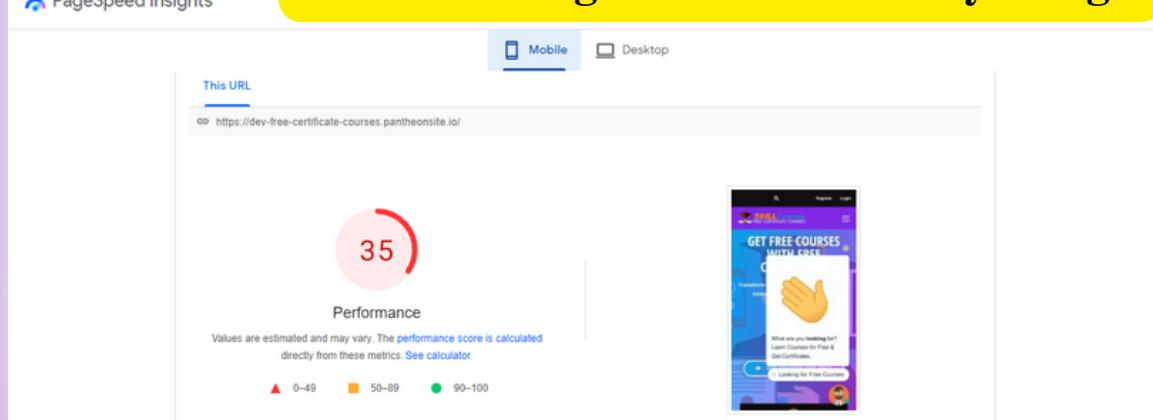
Before Testing Desktop Version by Google



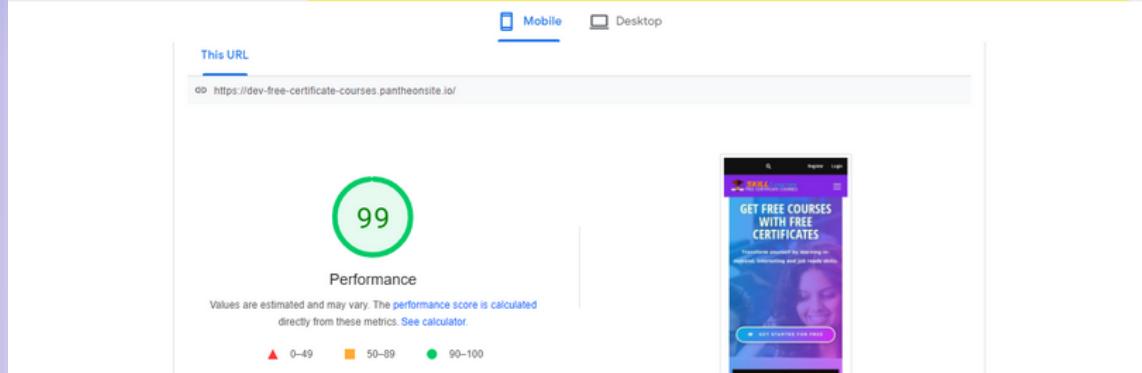
After Testing Desktop Version by Google



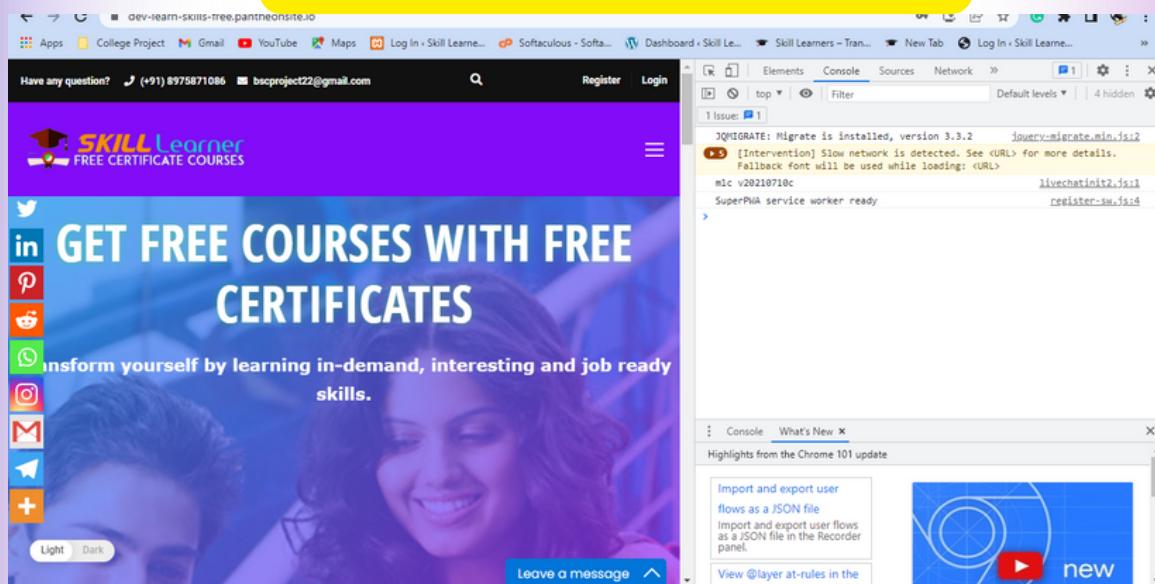
Before Testing Mobile Version by Google



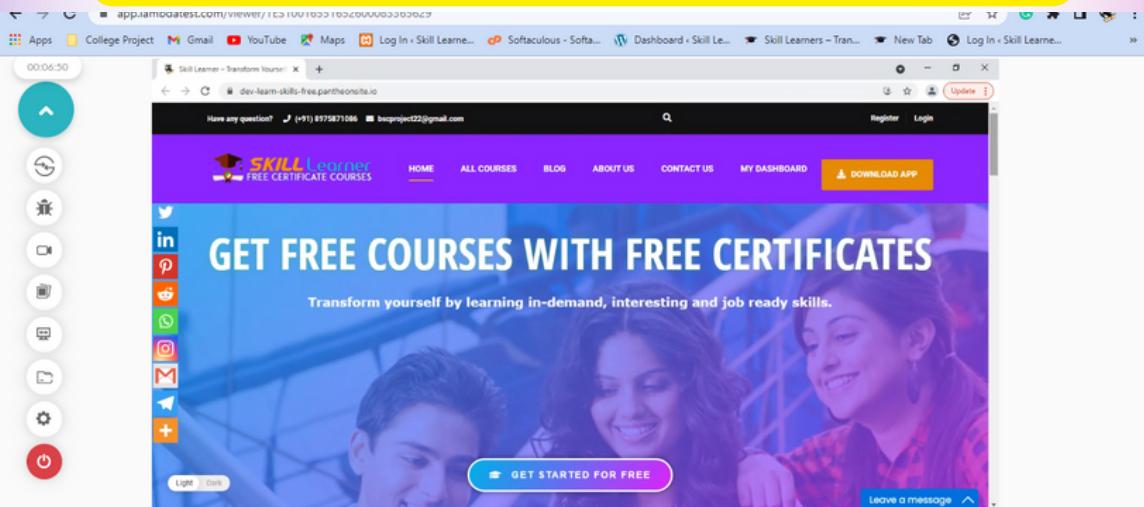
After Testing Mobile Version by Google



Testing & Debugging on Console



Testing & Debugging Using LambdaTest Tool



ADVANTAGES

- User can login/signup and can save their progress and can access from anywhere at any-time thorough any device. This gives the user an advantage of constantly learning without any break.
- We also added a search bar so that user can enter the keyword of his/her interested topic and can get suggestions based on the keyword. No need for user to go through all the topics and waste time.
- We also added the feature of voice search so that users can just talk their interested topics and they will get results based on the input.
- Incase a user is confused on which course to apply for, we also added the feature of recommending the user different courses based on their previous knowledge of the topic, the amount of time they are ready to spend for a course and also the reviews and ratings of the particular course.
- We have also provided the option to login by Google & Facebook accounts so that user can login quickly and easily without typing password.
- We added the feature where user will get a course completion certificate at the end of the course.
- And lastly all the courses are free so users can enjoy and learn new things without spending a single rupee.

FUTURE ENHANCEMENT

- **Placement Preparation:** Placement refers to the process of connecting the selected person and the employer in order to establish an ongoing employment relationship.
- **Webinar integration:** When delivering courses that feature webinar sessions, you want to ensure it's as seamless as possible, and that you have access to your data all within a single solution.
- **Video Calling Integration:** Video calling allows you to make a face-to-face call with apps such as Zoom, FaceTime or WhatsApp on devices such as smartphones, tablets and computers.
- **Automated alerts and notifications of courses:** A weekly notification about which course resources and files are most frequently accessed by the users.
- **Job Portals:** Job portals are sites where you can promote jobs and search for resumes. They are an important part of almost every hiring procedure, and using them efficiently will interpret into qualified candidates for moderately low costs.

SUMMARY

Skill Learner website takes care of all the requirements of students and job seekers by providing best courses and exposure to learning and making them ready for securing jobs, internship.

Provides an easy and effective method of learning and gaining experience about jobs and acquiring various skills important for Life.

The website system formally specifies the information . It includes development of students and teachers. Needs of the students get identified easily and are imparted with required skills.

This site provides various services to solve the problem of users or students like free courses with free certificates, text to speech, voice search, live chat, social sharing and social sign up etc.

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2. Hosting & Domain: <https://pantheon.io>
3. Google Analytics: <https://analytics.google.com>
4. Youtube Video Playlist Length: <https://ytplaylist-len.herokuapp.com>
5. Page Speed Testing Tool: <https://gtmetrix.com>
6. App Creator Tool: <https://www.appcreator24.com>
7. Mobile-Friendly Test by Google: <https://search.google.com/test/mobile-friendly>
8. Chrome Extension for Responsive Test: <https://test-responsive.dllplayer.com>
9. Text to Speech APIs: <https://websitevoice.com>
10. Live Chat APIs: <https://mylivechat.com>
11. DataBase: <https://www.phpmyadmin.net>
12. Google APIs: <https://console.cloud.google.com/apis>
13. Facebook APIs: <https://developers.facebook.com/apps>
14. GitHub: <https://github.com/Skill-Learner>
15. Canva for Designing: <https://www.canva.com>
16. Project Report Flip Style View: <https://bit.ly/3PnWUnf>

Blogs:

1. <https://www.simplilearn.com>
2. <https://www.geeksforgeeks.org>
3. <https://www.w3schools.com>
4. <https://www.javatpoint.com>
5. <https://www.edureka.co>
6. <https://www.computerhope.com>
7. <https://www.techopedia.com>
8. <https://ithemes.com>
9. <https://www.insidetelecom.com>
10. <https://www.softwaretestinghelp.com>

Courses:

1. WordPress Complete Course
2. Digital Literacy Course
3. Learn Adobe Photoshop
4. Web Development

Videos:

1. <https://www.youtube.com>
2. <https://vimeo.com>

“Education isn’t
something you can
finish”

- Isaac Asimov

