BABU BANARASI DAS UNIVERSITY

Project Presentation

Dynamic Website (E-Learning Platform)

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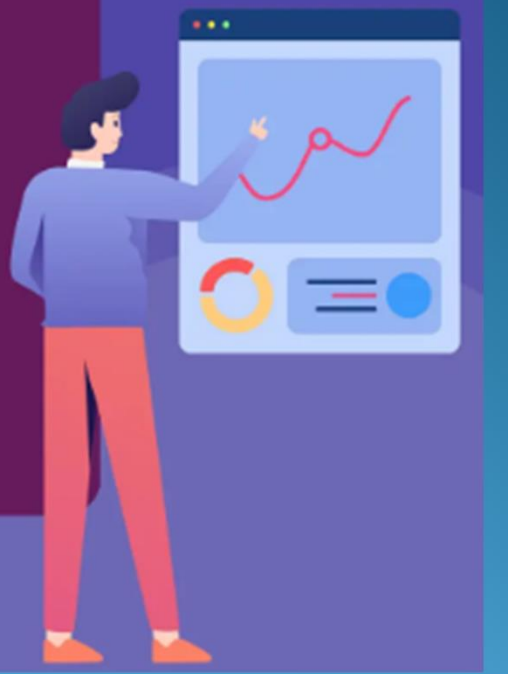
E-Learning Website Development

Knowledge Hub Academy

From development to distribution

Introduction

Welcome to our presentation on E-Learning Website Development. In this digital era, the demand for flexible and accessible education solutions is ever-growing. E-Learning websites provide a platform for learners to access educational resources conveniently from anywhere with an internet connection.



Importance of E-Learning

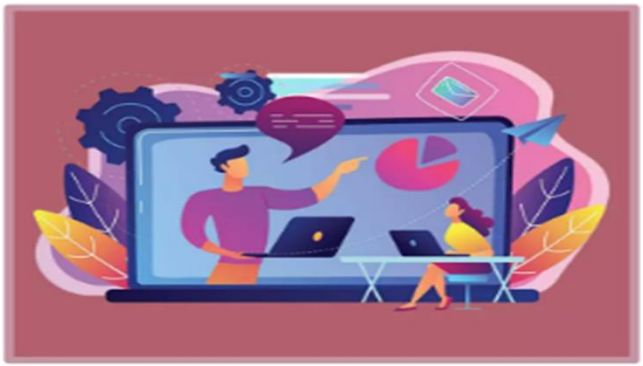
Importance: E-Learning breaks the barriers of traditional education by offering flexibility, accessibility, and personalized learning experiences.

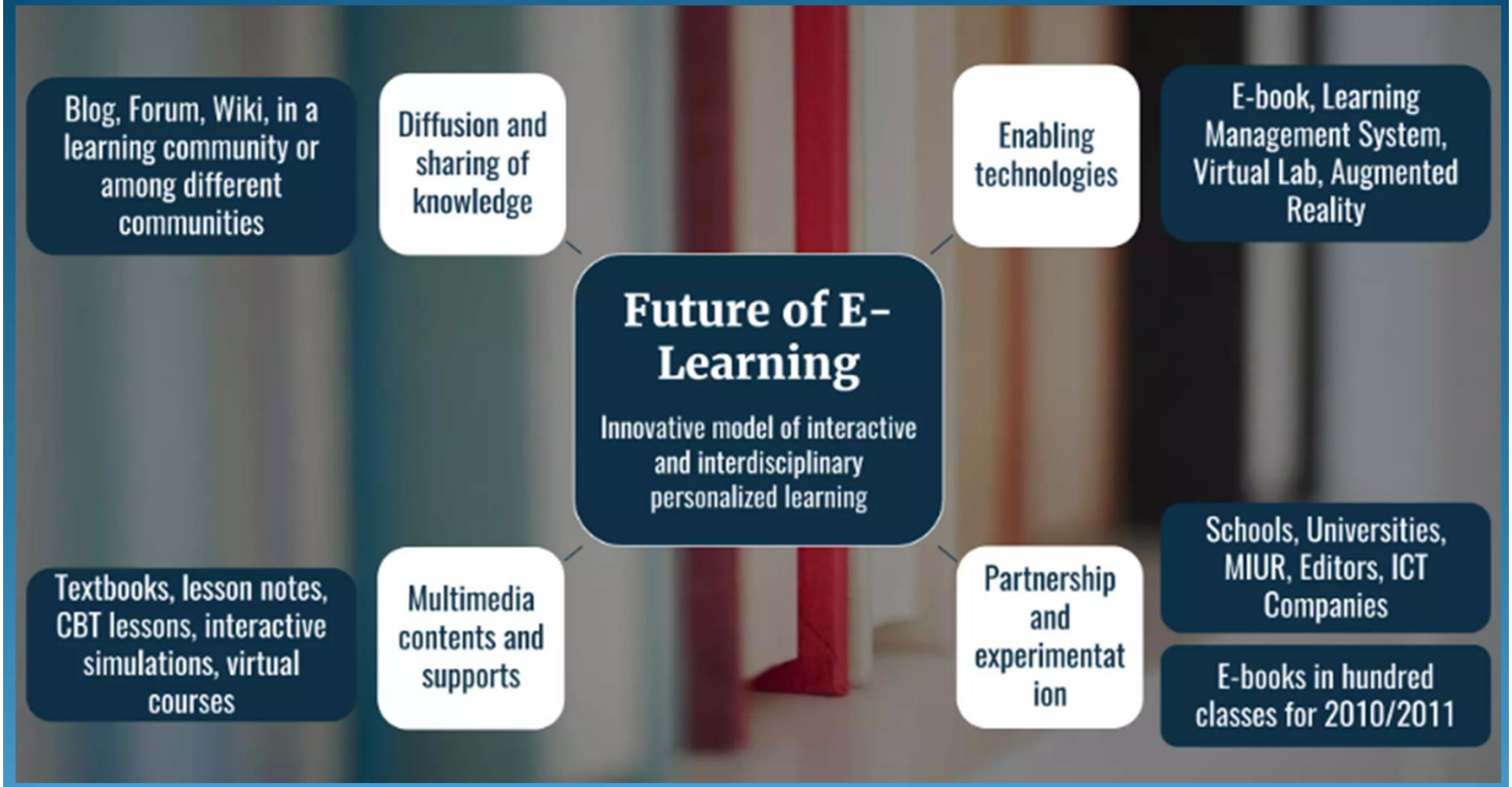
Statistics: According to , the global e-learning market is projected to reach

1. Synchronous

Learning from the sources of:

- Virtual Classroom
- Audio and Video Conferencing
- Chat
- Webinars
- Application Sharing
- Messaging instantly




Future of E-Learning
Innovative model of interactive and interdisciplinary personalized learning
Diffusion and sharing of knowledge
Blog, Forum, Wiki, in a learning community or among different communities
Enabling technologies
E-book, Learning Management System, Virtual Lab, Augmented Reality
Multimedia contents and supports
Textbooks, lesson notes, CBT lessons, interactive simulations, virtual courses
Partnership and experimentation
Schools, Universities, MIUR, Editors, ICT Companies
E-books in hundred classes for 2010/2011

Development Process

Needs Assessment:

Identify the target audience, learning objectives, and technological requirements.

Design Phase:

Create wireframes and prototypes to visualize the website layout and functionality.

Development Phase

Build the website using appropriate programming languages and development frameworks.

Testing and Quality Assurance:

Conduct rigorous testing to identify and fix bugs, ensuring smooth functionality.

Deployment:

Launch the e-learning website and monitor performance for continuous improvement.


web
technology
web
technology

WHAT IS WEB DEVELOPMENT ?

- Web Development usually refers to developing the website for the Internet (World Wide Web) or for an Intranet (Private network).
- Also known as Web Programming.
- It is the creation of Dynamic Web Applications.
- Examples of Web Applications are Social networking sites like Facebook or E-commerce sites like Amazon, Flipkart, etc.
- There are two broad division of Web Development –
  - Front-end Development (also called Client-side Development)
  - Back-end Development (also called Server-side Development).

A **website** is a collection of web pages.

A **web page** may contain texts, graphics, sounds, animations, and movies.

Web pages are developed with the help of a language called **Hyper Text Markup Language(HTML).**

It is also a language of Internet.


php
MySQL
Microsoft
.net
WORDPRESS
Java
JavaScript
Joomla!
CF
perl
RAILS
python
perl
Java
JavaScript
jQuery
php
MySQL
XML
<HTML>
W3C CSS

Communication on the web can be categorised as

1. **Client (browser) to webserver**

2. **Web server to Web server communication**

FRONT END DEVELOPMENT

- **Front end development** refers to producing a web application so that a user can see and interact with them directly.
- **It** is also known as **Client side development.**
- **It** focuses on the visual elements of a website that a user will interact with.
- A **front end developer** has one general responsibility: to ensure that website visitors can easily interact with the page. They **do** this through the combination of design, technology and programming to code a website's appearance, as well as taking care of debugging.
- The common **technologies** we can use in front-end development are:
  - **HTML**
  - **CSS**
  - **JAVASCRIPT**

FRONTEND DEVELOPMENT TECHNOLOGIES

- HTML was first created by Tim Berners-Lee, starting in **1989**. It stands for Hyper Text Markup Language.
- Hypertext means that the document contains **links that allow the reader to jump to other places** in the document.
- A **Markup Language** is a way that computers speak to each other to control how text is processed and presented.
- It describes the structure of a web page and consists series of elements.
- Its elements tells browser how to display the content.
- It's code is written in **Notepad** or any **text editor** but save it as **.htm** or **.html** extension.

FRONTEND DEVELOPMENT TECHNOLOGIES (CONT..)

- CSS was first proposed by **Hakon Wium Lie** on October 10, 1994 at **CERN** (**European Organization for Nuclear Research).**
- Cascading Style Sheets (CSS) describes **how HTML elements are to be displayed on screen.**
- CSS **saves a lot of work.** It can control the layout of multiple web pages all at once.
- It is also responsible for **responsive layouts** of a website.
- It is also written in any text editor but save as **.css** extension.

FRONTEND DEVELOPMENT TECHNOLOGIES (CONT..)

- **Javascript** was invented by **Brendan Eich** in 1995.
- **Javascript** is the **Programming Language** for the Web.
- **Javascript** can update and change both **HTML** and **CSS.**
- **Javascript** is responsible for the **Functioning** of the website.
- It is a **scripting language** that enables us to create dynamically updating content, control multimedia, animate images, and pretty much everything else.
- It is also written in any text editor but add the **.js** extension.

JavaScript

BACK END DEVELOPMENT

- Backend development controls what goes on behind the scenes of the web applications.
- It is also known as server side development.
- Backend usually consists of three parts:
  - A server
  - An Application
  - A Database
- Users can't see how the backend works but this code is what communicates the database information to the browser.
- Common Backend development technologies are:
  - **SQL**
  - **PHP**

BACKEND DEVELOPMENT TECHNOLOGIES (CONT..)

- **PHP** is an acronym for **"PHP: Hypertext Preprocessor"**.
- **PHP** is a widely-used, open source scripting language.
- **PHP** scripts are executed on the server.
- **PHP** is free to download and use.
- **PHP** is a server side scripting language that is embedded in **HTML**.
- It is used to manage dynamic content, databases, session tracking, even build entire e-commerce sites.

BACKEND DEVELOPMENT TECHNOLOGIES

- **SQL** stands for **S**tructured **Q**uery **L**anguage.
- **SQL** let us access and manipulate databases.
- **SQL** became a standard of the American National Standards Institute (**ANSI**) in 1986, and of the International Organization for standardization (**ISO**) in 1987.
- **SQL** is a database language, it is used for database creation, deletion, fetching rows, and modifying rows, etc.
- It can retrieve data and executes queries against the database.
- Every website is supported by a database at the backend. Each time a user submits information or searches something in the website, data gets stored and retrived from the database. SQL is the language for qurying and storing data in the database.

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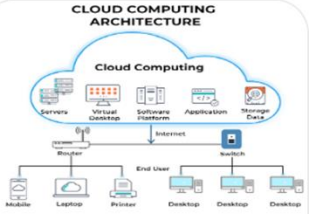

Cloud computing

Cloud computing hai ek model of delivering computing services over the internet, jismein resources jaise ki servers, storage, databases, software, aur....

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Conclusion

E-Learning is not intended to replace conventional methods and learning in classroom. Its aim is to create an augmented learning environment where technology is used to deliver a combined range of teaching and learning techniques aimed at maximizing the individuals participation and achieving the goals in the learning and teaching process as a greener world.

PRESENTED BY :-

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