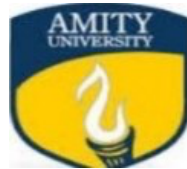# WEB DEVLOPMENT : A CLONE WEBSITE

A TERM PAPER REPORT

Submitted By

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# Acknowledgement

# Declaration By the Student

I, premjeet raj student of B. Tech (CSE)) hereby declare that the Term Paper-I [ETTP-100] titled " WEB DEVLOPMENT A CLONE WEBSITE" which is to be submitted by me to Amity School of Engineering and Technology, Greater Noida, Amity University Uttar Pradesh hereby declare that all the information that are included in this report are not copied from anywhere and is true to the best of my knowledge. All the information in this report is collected under the supervision and guidance of Ms. Divya Singh , Asst. Professor, Amity University, AUGN Campus. All the information included in this project is true to the best of my knowledge.

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# ABSTRACT

Web development is an explosive and well recognise field which offer us to perform a better goods in some computer languages to make an replica of any application or an original one.

Web development offers two kind of mainly known topics which is Frontend development and Backend development. Frontend development offers us to make a structure of a website and application which can done by HTML, CSS and JAVASCRIPT.
HTML helps us to make a structure for a website to ensure that our code is written completely perfect. CSS helps for styling and adding some animations.

For backend there is available many tools like NODE JS, RUBY, PYTHON, PHP, MYSQL, AND POSTGRESQL.

- Back side interaction is known as back end development which is done by many various kind of languages like PHP, NODE JS, JAVA, JAVASCRIPT, and SQL

# INTRODUCTION

Web development is a user friendly platform which is used for developing websites and application for making peoples to interact with each other and make workload lesser.
Websites and application are running in search engine which require an excellent network connectivity. In poor connectivity area the web application can't work properly.
Performance Limitations In performance way there are so many sites and application which have a heavy sizes so, if there are good connectivity still sites like this can't work properly

SEO Constraints There Should be better constraints for their backend structure, and SEO constraints Should be multiple relay objective which can be maintain a better structure for a website.

Additionally, Web development offers two kind of mainly known topics which is Frontend development and Backend development. Frontend development offers us to make a structure of a website and application which can done by HTML, CSS and JAVASCRIPT.
HTML helps us to make a structure for a website to ensure that our code is written completely perfect. CSS helps for styling and adding some animations.

# LITERATURE REVIEW

A Literature review has a significant impact during 1990s when there was only some primary web pages on HTML.
Web development goes all over the world when the HTML was discovered because early websites just have some basic structure but HTML makes a drastic changes in term of web developmentation.

Then, there was CSS in the middle of 1900s which impact a totally different in term of interface of a website and application there was a time before 1900s the sites were developed without colours and animations but after that there is animations and dramatic styling features also added in websites and applications.

Then there is JAVASCRIPT , in mid of 1995 which make a revolutionized changes because of integrating performed data which gives a core strength to the websites and applications in web development.

# METHODOLOGIES

There are number of methodologies in web development from 1990s - present are:

## WATERFALL MODEL

WATERFALL MODEL: In new development programs mainly used in websites and applications by using waterfall model, in a primary approach in which there is condition in model where a phase must be completed before the second phase completed.

This method was worked hilariously excellent in small programs but it was unable for big scale programs that's why this model was struggled and was completely off for big scale programs.

## DevOps

DevOps operation was mainly invented for big scale programs. It is more reliable better than waterfall model and it was aims on shorten development table increase deployment instantly continuous integrating. continuous integration and continuous deployment (CI/CD) are primary practices in DevOps.

# TECHNOLOGIES AND TOOLS

1. FRONTEND DEVLOPMENT

- Frontend development is totally dependent on HTML and CSS it provides more capabilities and more multimedia graphical technologies

- JAVASCRIPT : JAVASCRIPT is primary resource of frameworks and works on NODE.JS, REACT, RUST and PYTHON.

2. BACKEND DEVELOPMENT

- Server end languages like NODE.JS, RUST, PYTHON, RUBY and PHP are mainly used in backend development.

- Database management : Database rational like RUST, GO, RUBY , JAVASCRIPT, POSTGRESQL, and PHP.
  These languages are ensure that the website's data can't be breached and bugs should be fixed instantly without any barriers.

# WORK DONE

Web development has many kind of tools to build a website/application. There are some key points:

1. FRONTEND DEVLOPMENT

- HTML and CSS are used for making a structure and putting a animation and colours in structure of a website which is called a type of frontend development

- JAVASCRIPT is use for making a website or application core strong for maintain a goof principles for a long term maintenance and also adding a better interactivity for various type of users and various kind of devices.

- Explosive designs : To make sure that a website and application can be fitted to any kind of device screen.

2. BACKEND DEVELOPMENT

- Back side interaction is known as back end development which is done by many various kind of languages like PHP, NODE JS, JAVA, JAVASCRIPT, and SQL

- Management of a database: To store the all data of an application or website there is a data storage unit which is known as database management which is maintain by, MYSQL and PHP.

3. SECURITY

• Plant a better version of a website against vulnerabilities and digital attacks.

4. TESTING

To make sure that your website is ready to use it is necessary to test security breaches and if there are some then fix their bugs instantly.

5. SEARCH ENGINE OPTIMIZATION

Analyse website to be better in all kind of search engines.

# CHALLENGES AND LIMITATIONS

BROWSER ENCHANCEMENT: Make sure that an application functions/programs correctly all over the different kind of browsers (example; Firefox, Microsoft edge, Safari, Edge) and their various kind of versions may be difficult because differences in search engines.

Responsive Design: while creating a website or any application be assure that all the alignment and lineament of interface is equal and perfectly maintained.

Performance Optimization: For making a website optimize use complex codes in JAVASCRIPT, use integrating terms, and use good compliers and maintain a fully optimized security software's.

Security: Protect your websites from digital attacks by using a certified malware and (WASMs).

Scalability: while creating a website or any application be assure that all the alignment, your websites from digital attacks using a certified malware and (WASMs).

Relaying on Internet Connectivity: Websites and application are running in search engine which require an excellent network connectivity. In poor connectivity area the web application can't work property

Performance Limitations: In performance way there are so many sites and application which have a heavy sizes so, if there are good connectivity still sites like this can't work properly

SEO Constraints: There should be better constraints for their backend structure, and SEO constraints should be multiple relay objective which can be maintain a better structure for a website.

Platform Limitations: Some functions not should be on a website because of its security breaches and for safety of an application

Legal and Compliance Issues: Consider a legal requirements and primary standards. example GDPR and ADA compliance can impose a better structure.

# FUTURE PROSPECTS

Future prospects are too weak or not so relaying of web development. In 2024, there are PWAs for websites to perform a hilariously backend codes and also frontend codes so, now or in future vet) development can be replaced by any Al tools like plant scale or canvas.

But, of course in present time there are scope for web development in making websites and also applications and Al. ML and DATA STRUCTURES.

In upcoming years. there is ARTIFICIAL INTELLIGENCE. MACHINE LEARNING. and many more things which will be taken place of web development by using advance technologies like VRs, WEB assembly (VVEBM) will convert websites into more stable and balanced technology.

As a security concern, there is a lot to do in vet) development field which can be resolve by using the AL ML and WASM.

Relaying on Internet Connectivity: Websites and application are running in search engine which require an excellent network connectivity. In poor connectivity area the web application can't work properly.

Performance Limitations: In performance way there are so many sites and application which have a heavy sizes so, if there are good connectivity still sites like this can't work properly

SEO Constraints: There should be better constraints for their backend structure. and SEO constraints should be multiple relay objective which can be maintain a better structure for a website.

# CONCLUSION

The function on making a clone website in web development is all strategic, technical, and moral structure of a computer program. This report tells you about every single things which we have to keeps in our mind while making a website/ application replica or making an original application/website.

As we far know there is three programming languages for making an application I website

HTML (for making website structure )

CSS (for adding animations, colours, fixed boxes for important texts )

JAVASCRIPT ( to maintained backend structure of an application/ website and integrated functions)


We have to Analyse the basic objectives for cloning the website, which involves leaming purpose and makes a backup site. Also making a WIREFRAMING expand wireframes to make outline interface the primary structure and interface of the cloned website.


Comprehensibly brief the objective of cloning the website. Objectives can be include determine, making a backup data, or making a polyglottic version.


In vet) vet) developments there is also so many future prospects and future trends which can be seen already now, like there is too much rush on ARTIFICIAL INTELLEGENCE AND MACHINE LEARNING. So, Al, and ML will be take places as new web development tools and technology.

But also there is many benefits of clone website we can using it for educational purpose, creating a better side overview of an functionals back ends and frontends for an applications.


The process for making an clone website is very detailed practice by using different kind of tools like, compilers, code readers, and many more other short termed tools for creating different kind of animations, colours, and texts for websites and application.


Web DEVLOPMENT has so many sources for implement and creating and better looking website and applications like we can use HTML for creating structure for a website o application and there is CSS for giving it a better looks like colours, separate box's, and making an animations for it. Now, there is JAVASCRIPT for check their functionality, integrating styling, and make sure that the website or application capable for various devices.

# REFRENCES

Fundamentals of Web Development. Web Journal of Computer Science by Han S & Jain A in 2012.

Leveraging Front-End Frameworks for Efficient Web Cloning. Journal of Web Design and Development by Smith R in 2015.

Back-End Technologies for Web Cloning. Computing Reviews by Roberts, J., & Anderson B in 2017

Ethics in Web Development: The Case of Website Cloning. Ethics and Information Technology, by Murray, T, & Damjanovic, A in 2013

Fair use in Digital Contexts. Journal of Intellectual Property Law, by Davis, R. in 2014

The Digital Millennium Copyright Act: Implications for Web Development. American Journal of Law and Technology, Harris, L. in 2016

GDPR and Its Impact on Web Development. European Journal of Law and Technology, by Fischer, M in 2018