**Block-2 Back End Development**

**University Academy-92**

Graphical user interface, application

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Git hub : <https://github.com/patelsahilua92/backEnd>

Web site : <http://dynamite.saxtons.org.uk/backEnd/index.html>

Section 1: Introduction

In this report we are going to talk about a website which is already created, about how it works, how it functions, how it transfer data from web page to a database and in backend development report we will discuss about different technologies that detail the features PHP and MY SQL that have been used for creating a database.

What is Backend Development?

A Backend is of an application, a database and a server very important. The imparting between the browser and the database is known as Backend and no user can see how it works.

The data is stored on the server because the browser in the end is like an translator that gets back certain source code. And then when a browser request recourse from a webserver, so the webserver responds with the following resources. So to make this work we need to fill the form on webpage and then press submit button and also we can search by just writing the link name on browser.

Section 2: Content

Now ahead this report is going to describe how to create a webpage in which we can fill information to reflect it in database. Then we will introduce the linux operating system that will be introduced by using their command line to configure, and the PHP ( programming language ) will be also used to create a webpage. Also MY SQL will be discussed ahead which is also an important part to get the data you want, to execute a webserver that will be used to host the website, lastly with the help of CSS, HTML and BOOTSTRSAP we can make modifications to the webpage for making it attractive which is mandatory.

Section 3: The Linux

Basically Linux is an Operating System. Linux is as same as operating system Windows and OS X. big difference is you can manage your server using command line. And linux is open source operating system which we can use free of charge.

Technically Linux does not have many obstacles like viruses, slow downs, costly repairs, malware, crashes and many other problems like other operating system has, Linux can be a perfect place for work without any such obstacles.

Example of my Linux:

Text, letter

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Section 4: PHP (Programming Language)

PHP is a Server Side Scripting Language, which is used primarily for Wed Development and PHP can be embedded in HTML. PHP is used in standalone files and also used in the command line. PHP is free and cross platform compatible which can be used in Windows, OS X and any operating system. First PHP was known as Personal Home Page but know it’s known as Hypertext Pre-processor. PHP is mostly used language on webpages know a days, nearly 80% of websites use PHP language.

It allows to make a website more dynamic and help users to do something on their website. Like if we need to fill a form for school we need to create a login page where users can go and login into it, after that they will need to fill a form on website and post something. To see this a database should be created, if there would be no database user would not able to save the data he/she filled in the form. Now to connect it to database we need a server-side language and PHP. It also works with in HTML code to be able to capture and display the data on webpage. Also there are

Few features of PHP that have been used in assignment like a PHP form validation in target form table using name, first\_mission, type and no\_mission with the help of submission button at the end of the form we can submit the data to database table named target.

Basic Flowchart for PHP:

Diagram

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Section 5:MY SQL (Structured Query Language):

MYSQL is a relational database management system (RDBMS) which is also an open-source, fast reliable, and flexible relational database management system, typically used with PHP. Database use SQL to manage, and then they use tables which has many rows and columns to store the data. Like example in our assignment we I have a database called dynamite which has mane tables in it, for example astronaut, attends, mission and targets. Every tables and fields are linked with something called keys.

A screenshot of a computer

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So basically, there are two keys:

* Primary Key : A primary key is the columns that contain a unique value to identify each row in a table.

Graphical user interface, application

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In this table ”id” is a primary key.

* Foreign Key : A foreign key is known as a table which has a set of attributes that refers to the primary key of another table.

Diagram

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Here in Orders table “customer number” is a foreign key which refers to primary key table named Customers.

Section 6: About Wed Server

A web server is a specialised software that responds to client requests. Every web sites require a web server to process client requests and ‘serve up’ the pages. Web servers are used to service internet, intranets and extranets.

A web server is a software that serves web content through the HTTP protocol. It is the foundation of the internet and any website out there must be sitting and hosted on a web server. Web APIs can also be hosted on some sort of a web server. A web server can serve static or dynamic content. We can use an out of the box web servers such as apache, tomcat or IIS or we can write your own from scratch to expose piece of functionalities such as API.

Section 7: Conclusion

In conclusion I would like to say that with the help of linux, PHP, MY SQL I have created a website and a database linked with it. And hosted the website on a server to make it live.

A screenshot of a computer

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Section 8: References

<https://www.w3schools.com/>

<https://www.w3schools.com/css/>

<https://getbootstrap.com/>

**This is my Diagram:**

Diagram

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