INDUSTRIAL TRAINING REPORT UNDERTAKEN AT BROOKES PROFESSIONAL SERVICE LIMITED
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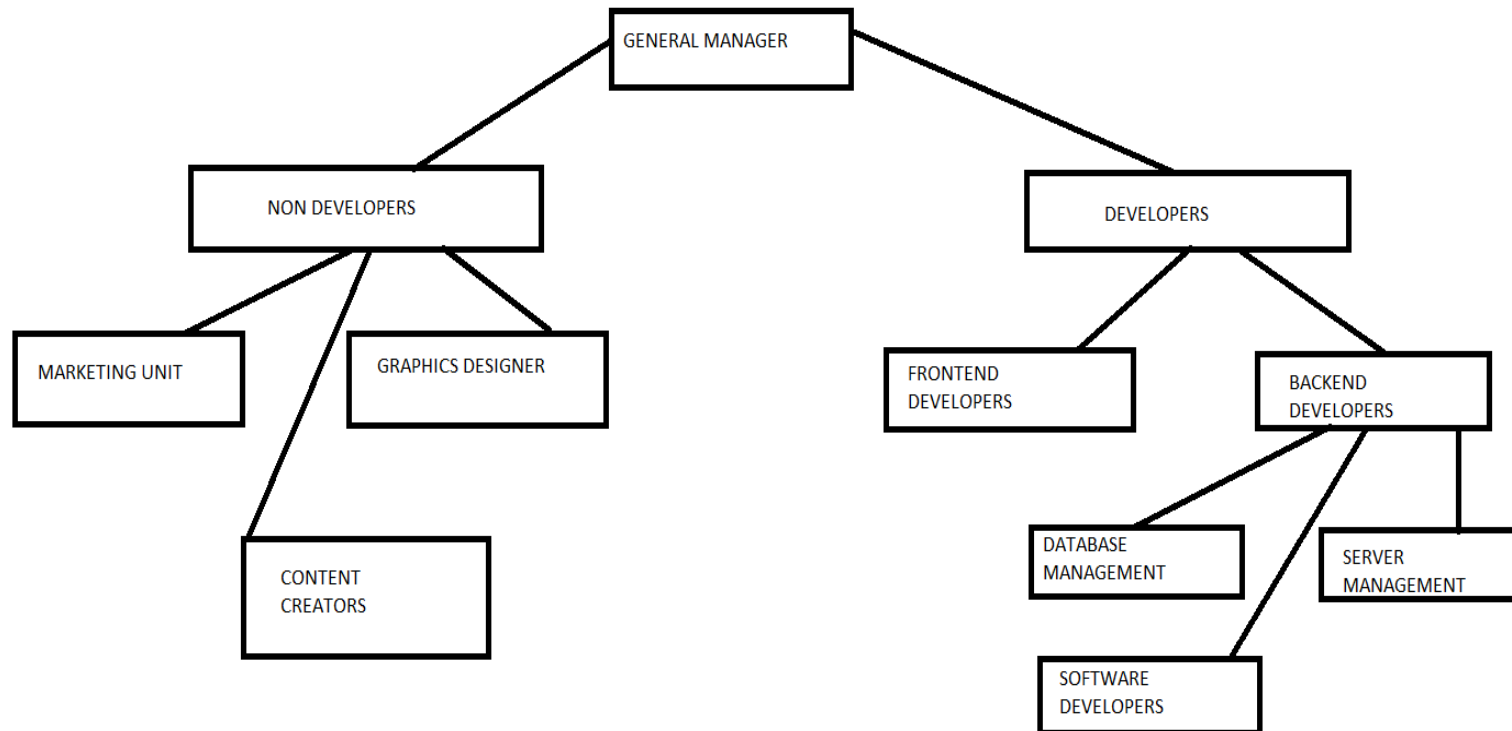- 1.8 Recommendation

1.1 Background Study

HISTORICAL BACKGROUND OF PLACE OF BROOKES PROFESSIONAL SERVICE LTD.

BROOKES SOFTWARE started as a computer training centre, as a means to raise fund for the needed skills to start operating in the software development industry.

The company has being operating fully in the industry since 2010, and presently have several application to its name in which most of the application are being use in tertiary institutions and financial institutions.

The company's services are majorly software development (Desktop & Mobile) and her objective is to solve real life and business problems, to be one of the world's leading producers and providers of software and tech solutions, creating unprecendented value and opportunity for customers, employees, investors, businesses and the world at large.

1.2 company organogram

1.4 INTERNSHIP EXPERIENCE

- AT
- BROOKES PROFESSIONAL SERVICE LTD.

1.3 Internship Timeline

- DURATION
- 22 weeks (May 31, 2021 – November 1, 2020)
- This industrial report present the experience gained during my six (6) months of industrial training.
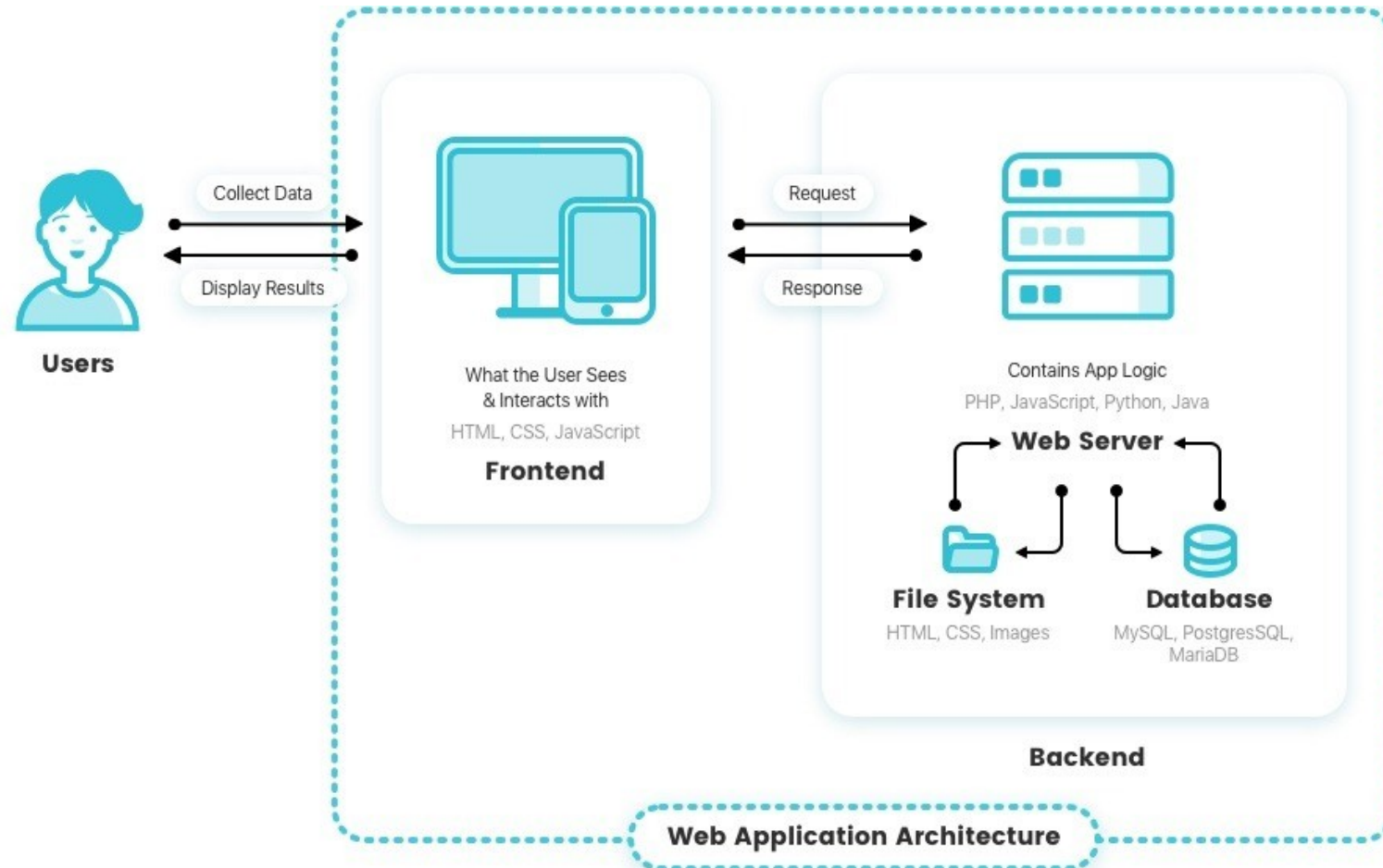- My training was on web applications, database management and web server management.

DEVELOPING WEB APPLICATIONS

- A Web application (Web app) is an application program that is stored on a remote server and delivered over the Internet through a browser interface.

- Web applications typically have short development cycles and can be made with small development teams. Most Web apps are written in JavaScript, HTML5, Cascading Style Sheets (CSS). Client-side programming typically utilizes these languages, which help build an applications front-end. Server-side programming is done to create the scripts a Web app will use. Languages such as PHP, Python, Java, and c# are commonly used in server-side programming.

HOW WEB APPLICATIONS WORK

- Web applications do not need to be downloaded since they are accessed through a network. Users can access a Web application through a web browser such as Google Chrome, Mozilla Firefox or Safari.

- For a web app to operate, it needs a Web server, application server, and a database. Web servers manage the requests that come from a client, while the application server completes the requested task. A database can be used to store any needed information.

WEB APPLICATION ARCHITECTURE

DATABASE MANAGEMENT IN WEB APPLICATION

- **The Web-based database management system is one of the essential parts of DBMS and is used to store web application data regarding E-commerce, E-business, blogs, e-mail, and other online applications.**

- The DBMS accepts the request for data from an application and instructs the operating system to provide the specific data. In large systems, a DBMS helps users and other third-party software to store and retrieve data.

- The basics of all database is the collection of table of different columns. An SQL language is used to query and manipulate database

BASIC SQL STATEMENT FOR DATABASE MANIPULATION

- CREATE: For creating a new table

  CREATE TABLE students

- **SELECT:** For selecting data from different table

  SELECT * FROM students WHERE year = 2017

- INSERT: For inserting into a data table

  INSERT INTO `students`(`name`, `matric_no`) VALUES (`fasanya`, `20172451`)

- **UPDATE:** For updating the content of a data table

  UPDATE `students` SET `surname`='fasanya', WHERE `matric_no` = 20172451

- DELETE: For deleting columns/table from a datatable

  DELETE FROM `students` WHERE matric = NULL

WEB SERVER MANAGEMENT

- A web server is a computer that stores web server software and a website's component files. (for example, HTML documents, images, CSS stylesheets, and JavaScript files) A web server connects to the Internet and supports physical data interchange with other devices connected to the web.

- The web server I worked with is the CWP web server (Centros Web Panel) which comes with the following features

- Domain and subdomain management

- File management

- Database Management

- DNS functions

- Email accounts management

CHALLENGES AND SOLUTION

S/N	CHALLENGES	SOLUTION
1.	At first, I had problem in securing a computer science firm to enable me carrying the exercise.	I later found an opportunity at Brookes Professional Ltd. through Ogun TechHub.
2.	At first I had a problem when I was placed under backend development because of the languages, frameworks and tools being used which are new to me.	I started to wok extra hours to familirize myself to the new system. I also ask for help from other developers
3.	I had issues when I started with the company's server as I tampered with lot of files and folder which are not meant to be touched	I had a lesson session with the senior developer.

1.5 OTHER SKILLS GAINED

- During the period of my training at Brookes Professional Service Ltd. The following are the list of skills I acquire:

- Web application development

- Web server management

- Database Management

- Using PHP and it's popular framework, Laravel

- Using JQUERY, AJAX and Laravel Livewire to improve the UI/UX of a web application

1.7 CONCLUSION

- At the end of the programmed: I am able to know more about the field of computer science that interacts mostly with the world and can make a better person and serve my community at large. All what I learnt at **Brookes Professional Software** such as networking, installation, database, how they produce their products, ways of interacting with customer, has transformed me and make me to see the coming future as a brighter student.

- I also conclude that SIWES is a best programmed that makes me learn more of what I have been taught in class in a practical way and how it is utilize to serve the community and nation at large.

1.8 RECOMMENDATION

- In the order to make the SIWES program a best on for upcoming student and future generation, the following are my recommendation:

- I strongly recommend that the University should be involved in securing students' attachment to various industries related to their field of study by forming a synergy with the Industries or companies.

- The department should also endeavor to liaise with the alumni and experience individual of the department who could be of help in recommending a suitable placement to student going for industrial training.

- It would be of great benefit if an avenue is created that can allow the student to have access to computer science and technology firm that actually fits in their future area of specialization as a computer science graduate.

GREETING AND APPRECIATION

ﺚ THANK YOU FOR LISTENING

ﺚ GOD BLESS YOU ALL |||