

Assignment No 6

Writing Skills

Part 1: Report Writing

PICT ALUMNI CONNECT

ACKNOWLEDGEMENT

The satisfaction and nostalgia that comes with the successful completion of any task remain incomplete without the mention of the people whose help contributed significantly. I consider this a privilege for getting an opportunity to express my gratitude and admiration for everyone who guided and inspired us to complete this project.

First of all, we would like to thank our mentor for her moral support and guidance throughout the entire time we have spent on PBL (Project Based Learning) course. Her immense knowledge and experience in handling projects are creditable.

We would also like to thank all those faculties of PICT who introduced us to new ideas and approaches which enriched the quality of our project.

Last but not least, we would like to thank our colleagues for their consistent efforts, assistance, and cooperation which have helped to make this project a huge success.

INTRODUCTION

1. Motivation

We students of Pune Institute of Computer Technology under this course of Project Based Learning were assigned to complete a project that solves a real world problem by the end of the first year. We (students of FE11 C11) brainstormed many ideas and came up with this idea of 'PICT ALUMNI CONNECT'. We decided to make a small model which is a part of this PBL project and if this succeeds then we would implement it on ground. The idea of the project is discussed below.

Student of 2nd and 3rd year have to apply for internships to learn and understand the market requirements of their respective field but have doubts regarding the internships. By this project we are going to provide information regarding application to internships, what are the required soft and technical skills and how the job environment is.

Students of B.E are applying to jobs and it would be really helpful to know about the work culture and soft skills required.

2. Project Objectives:

1. To provide information regarding various internship opportunities.
2. To get information about the application and references to study for the interview.
3. To understand the requirement of skills that are required in today's industry.
4. To connect to the alumni of Pune Institute of Computer Technology in various and get to know about the work environment in their respective organizations.

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3. Scope of the Project:

- a. To provide a free platform for students of PICT to get information regarding the job opportunities and internships available in market.

4. Intended Audience:

Students of First, Second, Third, B.E. Students studying to get a job in the field of computer technology.

5. Methodology

We were provided bare metal server on which we loaded Ubuntu 20.04 as a Server OS because it was optimized and being already used in many big applications since 2020 and canonical developers have optimized it continuously since then by fixing all reported bugs. Now to isolate the applications i.e., WordPress and Database from the host system we used Docker. The main advantage of Docker is that containerizes all the applications we have so that it is isolated from the host and uses resources that are only required.

Creating a site would require high coding knowledge of frontend and backend web development. Thus, we took the help of WordPress. Hence with the help of WordPress the site was ultimately created.

The beauty of WordPress is that you don't require any development knowledge (Like HTML, CSS and JS). WordPress provides you with a neat Graphical User Interface using which you can easily create sites using Drag and Drop method. Elementor in WordPress is the cherry on the top. It provides a more enhanced and optimized workflow that makes the site more beautiful and easier for the developer to add complex elements in the frontend.

For the backend we went with a plugin called Woo-Commerce.

Woo-Commerce is being used by major E-Commerce businesses. Woo-Commerce can easily hold the Inventory on Database, take bookings or orders and notify the concerned authority about the bookings and inventory.

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6. Experimental Setup

First, we tried to host our site on a Raspberry Pi, and it worked but it was not that reliable as all the data was to be stored on a single micro-SD card and those are not reliable as proper servers, so we went with the Cloud. Being tight on a budget we could only afford the lowest configuration of the VM offered by azure when we hosted our site on the cloud the VM would stop responding for a long time and we lost all control over it for that period. So, we went forward to use the resources provided by the college and acquired a system in the computer with the guidance of P.P Parkhi sir. Then we experimented with different versions of ubuntu and found out that 20.04 was the best choice and finalized it and then continued the final project on it.

Functional requirements

WordPress:

Requirements To run WordPress:

- PHP version 7.4 or greater.
- MySQL version 5.7 or greater OR MariaDB version 10.3 or greater.
- HTTPS support

Features

1. WordPress powers more than 43% of the web — a figure that rises every day. Everything from simple websites, to blogs, to complex portals and enterprise websites, and even applications, are built with WordPress.
2. WordPress combines simplicity for users and publishers.

An Overview of WordPress

WordPress is a free and open-source content management system (CMS).

- The freedom to run the program, for any purpose.
- The freedom to study how the program works and change it to make it do what you wish.
- The freedom to redistribute.

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- The freedom to distribute copies of your modified versions to others.

1) Advantages

1. It is free and simple.
2. It handles all the backend.
3. Simple editing drag and drop features (Elementor).
4. Themes manage the look of page.

5. No knowledge of coding is needed.

1) Disadvantages

1. Everything is not free.
2. Plugins might not function properly.
3. Can't handle more load without proper management.
4. Can't customize everything.

Non-Functional requirements:

- The website must run smoothly, with almost no bugs or viruses on the website.
- The website must be user friendly and easily accessible to the user.

2) Pict Alumni connect Google form

A google form with different questions regarding our topic was created and was forwarded to as many Alumni as possible. After getting information we would enlist that company into our website.

FORM LINK

<https://forms.gle/Pug5wQhcFyQKUS8SA>

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6. Future Scope

✓ Optimizing the site using HTML, CSS and JS

i. Transferring the site completely to a code-based website. Designing the layout by HTML 5 and using dynamic features of CSS and JAVASCRIPT to make site live and can mold itself according to runtime changes.

ii. Adding more features and customizing the view of pages.

iii. Making own database which can be accessible and simplified according to the need.

✓ Hosting in on the Cloud for more Uptime

- Dedicated hosting available 24/7.

- Transferring the site to cloud.

✓ Using Kubernetes for further optimization of site.

✓ Expanding our alumni connect google form to alumni as different batches and getting information about the company they are currently working in.

- ✓ Adding that information on our website.
- ✓ Adding fintech and non-tech companies on our website.
- ✓ Make the google form responses visible on website.
- ✓ Adding Internship alerts in our website.

Implementation details

1) CONNECTING WITH PICT ALUMNIS

First of all, we listed out different companies which visit our college for placements and then we also looked for companies which are preferred by PICT students off-campus mode. We finalized a list of around 30 companies as our first preference and then divided them in our 6-member team to carry out the further tasks

We then individually contacted PICT alumns who are working in those companies through LinkedIn.

2) COLLECTING INFORMATION THROUGH GOOGLE FORM :

After connecting PICT alumns through LinkedIn, we sent them a google form including different questions covering all aspects about their placement journey. We also included questions regarding their recruitment process and all the general queries that may arise in a PICT student's mind. Also questions about academics, non-curricular activities and most importantly internships were added. We got great response from the alumns.

3) RESEARCHING ABOUT PLACEMENT PROCEDURE OF COMPANIES

To make a reliable source of information for PICT students, we decided to deeply research placement procedure of all the companies on our own. For that we visited career portal on the respective company's official website. Regarding this, we also visited the Training and Placement cell of our college and we got valuable information regarding the placement procedure which we went on to add on our website. After collecting information from all the authentic source we started to work on building our website

4) CHOSING WORDPRESS AS SOFTWARE TO BUILD OUR WEBSITE

As our main aim was to provide a trustworthy platform of reliable information, we decided not to dig deep into backend coding for our website development and that's why we chose wordpress software to build our website

Some more reasons for choosing wordpress:

It's free

it's the ultimate DIY solution for website building and online stores

it's extra versatile – can run any type of website

it's fast, optimized, and secure

it's SEO-ready

it makes promotion on social media easier

5) Making Wordpress Website

Step 1: Get familiar with the WordPress UI

(1) Welcome message – Some of the most important areas of the admin panel listed as quick shortcuts links – these are usually your shortcuts to how to make a website.

(2) The current status of your site and what's going on with it.

(3) Posts – go here to create blog posts.

(4) Media – upload/manage images and other media files here.

(5) Pages – go here to create sub-pages.

(6) Comments – this is where you can moderate comments.

(7) Appearance – change your site's design here and/or customize how certain things are displayed on the current design.

(8) Plugins – install new plugins here.

(9) Users – manage user accounts that can access the admin panel of the website.

(10) Settings – the main settings.

Step 2: Setting our website title and tagline

Our site title and tagline might appear in various places throughout the site. Some WordPress themes display those on the homepage and in the SEO description – which Google uses when listing your website on the results pages. Our website title is “ALUMNI CONNECT”

Step 3: Picking a theme / design for our website

The great thing about WordPress is that it works with interchangeable designs – called themes.

Meaning, we can change the way our WordPress website looks with just one click. With just a couple of clicks, and with a popular free theme called Astra, for example, we can get it to look like this:

Step 4: Create basic pages

1) Home pages

2)ABOUT

STEP 5: CREATING POSTS

CONCLUSION

During the journey of creation of this site we faced many problems such as compatibility of software, proper infrastructure, hosting platform, etc. But we learnt a few new skills which helped us combat these issues. These skills will be useful for us in the IT industry and in future careers. The site was created and hosted successfully it is ready for production use. Although, it lacks many features. Basic tool booking and inventory management can be done on the site, other features such as instrument tracking, automated late return notification and fine collection, can be added in the future.

This site can be operated as a management system. It is lightweight, and all the major components are server driven so less client resources are used making it compatible with low end devices as well. To access this site, you only need a browser that supports HTML 5.

Throughout the journey of making this site all the team members are competent enough that everyone can individually create their own sites using WordPress. WordPress helped develop the basic knowledge of web development without the need to learn advance coding.

REFERENCES

[1] Documentation: Docker

[2] Documentation: WordPress

[3] YouTube: CodeWithHarry (Basics of WordPress)

[4] YouTube TheDigitalLife (Setting up Docker, Portainer and Nginx Proxy Manager)

Part 2: Resume Writing

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EDUCATIONAL QUALIFICATION:

S.no	Grade/Degree	Institute	Score
1.	SSC	Rosary School	79.5%
2.	Diploma	B.V.J.N.I.O.T	95.37%
3.	B.E	Pune Institute of Computer Technology	-

SKILLS

- Programming in C++, Java and Python.
- Basics of PHP for Client Side Scripting.
- Basics of Unity and Unreal Engine.

TECHNICAL PROJECT:

A Fraudulent Transaction Detection System using ML.

HOBBIES:

- Coding
- Video Editing
- Watching Anime

- Learning new skills.
- Game Development.

EXTRA CIRICULAR ACTIVITIES:

- Was a part of decoration committee in my Diploma College.
- Entered Multiple Esports Tournaments.