

SUMMER INTERNSHIP REPORT

(SEM IV)

Submitted in partial fulfillment of the requirements

Of the degree of

BACHELOR OF ENGINEERING

In

INFORMATION TECHNOLOGY

By

Name: Krupesh Patel

Div : TE IT2

Roll No.: 81



Information Technology Department

Thadomal Shahani Engineering College

University of Mumbai

2020-2021

CERTIFICATE

This is to certify that the “Internship report” submitted by **Krupesh Patel**,
Roll. No.: 81 is work done by him/her and submitted during 2020-2021 academic year, in
partial fulfillment of the requirements for the award of the degree of “**BACHELOR of**
ENGINEERING” in “**INFORMATION TECHNOLOGY**”, Thadomal Shahani
Engineering College.

Department Internship Coordinator

Dr. Shanthi Therese S.

Dr. Shachi Natu

Acknowledgement

I would like to thank ANKIT PATIL– C.E.O and Founder, SHRADDHA SATPUTE – Business Development Manager, for providing me this opportunity to pursue an internship in the web development field at Techq Konnect Technologies Pvt. Ltd.



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REF NO: TKTCT_IL026

DATE: 16/08/2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr Krupesh Patel has successfully completed internship from 14th June 2021 to 14th August 2021 as a Web Developer Intern at Techq Konnect Technologies Private Limited.

During the internship he worked on the following projects:

1. IoT Server
2. GUI based IoT Dashboard
3. Crop Prediction Web Application (ML)
4. Client Web Portal

He demonstrated good skills with an attitude to learn new things. We wish him all the very best for his career and future endeavours.

Ankit
16/08/21

Ankit Patil
Director, Techq Konnect.

Executive Summary

1. About the Company

Techq Konnect Technologies Pvt. Ltd. is a start-up company founded by creative and talented engineers aiming at increasing the online presence of companies which aim at growing in this social world. It is a hub for perfect & effective software & application development services.

2. The Problem/ Opportunity

Delivering solutions in order to optimize the productivity of our clients has always been our top priority.

They provide 1 year service (website, marketing assistance etc)

Which will help them grow in E-commerce sector.

3. Methodology

Web Development – Customized mobile friendly web design built to the latest standards and technology.

App Development – Using the latest technologies, we help businesses establish their presence on any modern device and platform.

Digital Marketing – Stay Ahead of your competitors with our Digital Marketing Services. Contact our experts, re-shape your Digital Strategies with leading Digital Media Agency. Go Digital.

4. Key parts of the report & your findings and solutions provided in the report.

To build a website.

5. Benefits to the company

I was able to pitch many companies regarding the solutions that are provided by Techq Konnect Technologies Pvt. Ltd. The deals brokered with these companies brought monetary and statutory benefits to the company which helped them in gaining an exposure to the existing marketing trends and business opportunities that exist.

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Internship Objectives

1. You need to create a database of every category which you have to entered on excel drive on regular intervals.(Till 4th April)
2. Then you guys have to approach those companies and explain what our company do and what our company offer the services to the client.
3. If the client is interested do ask them for the Email address, Name of person (which you had a talk), His Mobile no.(for future reference),and more as per Excel.
4. We will send the proposal and deliverables from our company and different packages which client can have a better explore against our company. (Via whatsapp or Email)
5. Fixing Meeting for final approval from the client and signing MOU.

WEEKLY OVERVIEW OF INTERNSHIP ACTIVITIES:
WEEK 1

Week #1	Date	Day	Name of Module
	14 June	Sunday	Introduction
	15 June	Monday	Basics of HTML
	19 June	Thursday	CSS
	20 June	Friday	JS

WEEKLY OVERVIEW OF INTERNSHIP ACTIVITIES:
WEEK 2

Week #2	Date	Day	Name of Module
	9 July	Sunday	Django
	11 July	Tuesday	Django REST
	12 July	Wednesday	Python Backend
	14 July	Friday	Started working on project

WEEKLY OVERVIEW OF INTERNSHIP ACTIVITIES:
WEEK 3

Week #3	Date	Day	Name of Module
	19 July	Wednesday	Linear Regression
	21 July	Friday	Nonlinear Regression
	23 July	Sunday	IOT server
	24 July	Monday	R Programming

WEEKLY OVERVIEW OF INTERNSHIP ACTIVITIES:
WEEK 4

Week #4	Date	Day	Name of Module
	25 July	Tuesday	E-Mailing
	26 July	Wednesday	Client Approval
	28 July	Friday	MOU Signing
	30 July	Sunday	Deal Completed

INTRODUCTION

Delivering solutions in order to optimize the productivity of our clients has always been our top priority.

They provide 1 year service (website, marketing assistance etc) which will help them grow in E-commerce sector.

What is a web application

For those of you who do not know what a web application is, I have included a definition below:

A web application, often referred to as a web app, is an interactive computer program built with web technologies (HTML, CSS, JS), which stores (Database, Files) and manipulates data (CRUD), and is used by a team or single user to perform tasks over the internet. CRUD is a popular acronym and is at the heart of web app development. It stands for Create, Read, Update, and Delete. Web apps are accessed via a web browser such as Google Chrome, and often involve a login/signup mechanism.

Web applications vs website

The key difference is how we interact with each. Web applications are defined by their input - we create, read, update and delete data within a web application. Websites are defined by their output - we read the news, marketing information, FAQs on websites.

Progressive web applications

Progressive web applications are a newer type of web application which behaves like and often outperforms native applications. They are web applications which follow a slightly different methodology, and involve an additional set of technologies such as service workers, manifests, push notifications. Progressive web applications can be downloaded to your device, and stored on your

homescreen which makes them accessible, and 'native-like', and unlike web applications they can be accessed and used offline.

1. Database

Determine what data you need to store in your database and also your data types. Then build your database.

2. Frontend

You will likely build your frontend and backend at the same time. Your frontend will loosely mirror your wireframe/prototype you validated earlier. The frontend consists of HTML, CSS, and JS - like one of our frontend frameworks below.

3. Backend

Building your backend is one of the toughest parts of the web application development process. The primary functions of the backend is to provide HTTP endpoints for your frontend (remember CRUD!), authenticate users, authorization, and to serve the frontend.

INTERNSHIP DISCUSSION

Objective:

To build a website.

Skills Learned:

Django

Django is a high-level Python web framework that encourages rapid development and clean, pragmatic design. Django makes it easier to build better web apps quickly and with less code.

Note – Django is a registered trademark of the Django Software Foundation, and is licensed under BSD License.

History of Django

- **2003** – Started by Adrian Holovaty and Simon Willison as an internal project at the Lawrence Journal-World newspaper.
- **2005** – Released July 2005 and named it Django, after the jazz guitarist Django Reinhardt.
- **2005** – Mature enough to handle several high-traffic sites.
- **Current** – Django is now an open source project with contributors across the world.

Django – Design Philosophies

Django comes with the following design philosophies –

- **Loosely Coupled** – Django aims to make each element of its stack independent of the others.
- **Less Coding** – Less code so in turn a quick development.
- **Don't Repeat Yourself (DRY)** – Everything should be developed only in exactly one place instead of repeating it again and again.
- **Fast Development** – Django's philosophy is to do all it can to facilitate hyper-fast development.
- **Clean Design** – Django strictly maintains a clean design throughout its own code and makes it easy to follow best web-development practices.

Advantages of Django

Here are few advantages of using Django which can be listed out here –

- **Object-Relational Mapping (ORM) Support** – Django provides a bridge between the data model and the database engine, and supports a large set of database systems including MySQL, Oracle, Postgres, etc. Django also supports NoSQL database through Django-nonrel fork. For now, the only NoSQL databases supported are MongoDB and google app engine.
- **Multilingual Support** – Django supports multilingual websites through its built-in internationalization system. So you can develop your website, which would support multiple languages.
- **Framework Support** – Django has built-in support for Ajax, RSS, Caching and various other frameworks.
- **Administration GUI** – Django provides a nice ready-to-use user interface for administrative activities.
- **Development Environment** – Django comes with a lightweight web server to facilitate end-to-end application development and testing.

HTML

HTML Documents

All HTML documents must start with a document type declaration: `<!DOCTYPE html>`.

The HTML document itself begins with `<html>` and ends with `</html>`.

The visible part of the HTML document is between `<body>` and `</body>`.

Example

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h1>My First Heading</h1>
```

```
<p>My first paragraph.</p>
```



```
</body>  
</html>
```

The <!DOCTYPE> Declaration

The <!DOCTYPE> declaration represents the document type, and helps browsers to display web pages correctly.

It must only appear once, at the top of the page (before any HTML tags).

The <!DOCTYPE> declaration is not case sensitive.

The <!DOCTYPE> declaration for HTML5 is:

```
<!DOCTYPE html>
```

HTML Headings

HTML headings are defined with the <h1> to <h6> tags.

<h1> defines the most important heading. <h6> defines the least important heading:

Example

```
<h1>This is heading 1</h1>  
<h2>This is heading 2</h2>  
<h3>This is heading 3</h3>
```

HTML Paragraphs

HTML paragraphs are defined with the <p> tag:

Example

```
<p>This is a paragraph.</p>
```

```
<p>This is another paragraph.</p>
```

HTML Links

HTML links are defined with the <a> tag:

Example

```
<a href="https://www.w3schools.com">This is a link</a>
```

The link's destination is specified in the href attribute.

Attributes are used to provide additional information about HTML elements.

You will learn more about attributes in a later chapter.

HTML Images

HTML images are defined with the tag.

The source file (src), alternative text (alt), width, and height are provided as attributes:

Example

```
**