

PROFESSIONAL TRAINING REPORT
at
Sathyabama Institute of Science and Technology
(Deemed to be University)

Submitted in partial fulfillment of the requirements for the award of
Bachelor of Technology Degree in Information Technology

By

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DEPARTMENT OF INFORMATION TECHNOLOGY

SCHOOL OF COMPUTING

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
JEPPIAAR NAGAR, RAJIV GANDHI SALAI,
CHENNAI – 600119, TAMILNADU

APRIL 2022



SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

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DEPARTMENT OF INFORMATION TECHNOLOGY

BONAFIDE CERTIFICATE

This is to certify that this Project Report is the bonafide work of **EVANGELIN.E** (Reg. No: 3912003) who carried out the project entitled “**E-COMMERCE WEBSITE USING WORDPRESS IN GCP**” under my supervision from January 2022 to April 2022.

Internal Guide

Dr. SENDURU SRINIVASALU, M.E., Ph.D.,

Head of the Department

Dr.SUBHASHINI ,M.E.,Ph.D

Submitted for Viva voce Examination held on _____

InternalExaminer

ExternalExaminer

DECLARATION

I, **EVANGELIN.E** hereby declare that the project report entitled **E-COMMERCE WEBSITE USING WORDPRESS IN GCP** done by me under the guidance of **Dr. Senduru Srinivasulu** is submitted in partial fulfillment of the requirements for the award of Bachelor of Engineering Degree in Computer Science and Engineering.

DATE:

E.EVANGELIN

PLACE:

SIGNATURE OF THE CANDIDATE

ACKNOWLEDGEMENT

I am pleased to acknowledge my sincere thanks to **Board of Management** of **SATHYABAMA** for their kind encouragement in doing this project and for completing it successfully. I am grateful to them.

I convey my thanks to **Dr. T. Sasikala M.E., Ph.D, Dean**, School of Computing and **DR.SUBHASHINI,M.E.,Ph.D., Heads of the Department of Information technology** for providing me necessary support and details at the right time during the progressive reviews.

I would like to express my sincere and deep sense of gratitude to my Project Guide **Dr. SENDURU SRINIVASULU, M.E., Ph.D.**, for his valuable guidance, suggestions and constant encouragement paved way for the successful completion of my project work.

I wish to express my thanks to all Teaching and Non-teaching staff members of the **Department of INFORMATION TECHNOLOGY** who were helpful in many ways for the completion of the project.

TRAINING CERTIFICATE



Award of Completion

Evangelin E

Has Successfully Completed

Star Cloud Computing

Star Authorized Delivery Partner

Advantage Pro

You can verify authenticity of this certificate by visiting
<http://www.starcertification.org/Verification/Participation>

10-04-2022

DATE

HwIZoBAAAJ

CERTIFICATE NUMBER



DONALD WILLIAM
DIRECTOR
GLOBAL CERTIFICATIONS



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ABSTRACT

This project is to deploy a live website using wordpress instance and manage it using GCP , the technology used in this project is cloud computing. Cloud computing is the on-demand availability of computer system resources, especially data storage (cloud storage) and computing power, without direct active management by the user. Large clouds often have functions distributed over multiple locations, each location being a data center. This project is about creating E-Commerce website using wordpress instance, add few details about and make it live and add extensions to it using GCP(Google Cloud Platform). WordPress is a free and open-source content management system written in PHP and paired with a MySQL or MariaDB database. Features include a plugin architecture and a template system, referred to within WordPress as Themes. After creating the website using wordpress instance it will be managed using GCP. Google Cloud Platform, offered by Google, is a suite of cloud computing services that runs on the same infrastructure that Google uses internally for its end-user products, such as Google Search, Gmail, Google Drive, and YouTube

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LIST OF ABBREVIATIONS

ABBREVIATION	EXPANSION
GCP	Google Cloud Platform
SSL	Secure Sockets Layer

1.INTRODUCTION

1.1. WHAT IS CLOUD COMPUTING ?

At around in 1961, **John MacCharly** suggested in a speech at MIT that computing can be sold like a utility, just like a water or electricity. It was a brilliant idea, but like all brilliant ideas, it was ahead of its time, as for the next few decades, despite interest in the model, the technology simply was not ready for it.

Cloud computing is the on-demand availability of computer system resources, especially data storage (cloud storage) and computing power, without direct active management by the user. Large clouds often have functions distributed over multiple locations, each location being a data center. Cloud computing relies on sharing of resources to achieve coherence and typically using a "pay-as-you-go" model which can help in reducing capital expenses but may also lead to unexpected operating expenses for unaware users.

1.2. HISTORY OF CLOUD COMPUTING

Before emerging the cloud computing, there was Client/Server computing which is basically a centralized storage in which all the software applications, all the data and all the controls are resided on the server side. If a single user wants to access specific data or run a program, he/she need to connect to the server and then gain appropriate access, and then he/she can do his/her business.

Then after, distributed computing came into picture, where all the computers are networked together and share their resources when needed. On the basis of above computing, there was emerged of cloud computing concepts that later implemented.

At around in 1961, **John MacCharly** suggested in a speech at MIT that computing can be sold like a utility, just like a water or electricity. It was a

brilliant idea, but like all brilliant ideas, it was ahead of its time, as for the next few decades, despite interest in the model, the technology simply was not ready for it.

But of course time has passed and the technology caught that idea and after few years we mentioned that:

In 1999, **Salesforce.com** started delivering of applications to users using a simple website. The applications were delivered to enterprises over the Internet, and this way the dream of computing sold as utility were true.

In 2002, **Amazon** started Amazon Web Services, providing services like storage, computation and even human intelligence. However, only starting with the launch of the Elastic Compute Cloud in 2006 a truly commercial service open to everybody existed. In 2009, **Google Apps** also started to provide cloud computing enterprise applications.

Of course, all the big players are present in the cloud computing evolution, some were earlier, some were later. In 2009, **Microsoft** launched Windows Azure, and companies like Oracle and HP have all joined the game. This proves that today, cloud computing has become mainstream.

1.3. GOAL OF CLOUD COMPUTING

The goal of cloud computing is to allow users to take benefit from all of these technologies, without the need for deep knowledge about or expertise with each one of them. The cloud aims to cut costs and helps the users focus on their core business instead of being impeded by IT obstacles. The main enabling technology for cloud computing is virtualization. Virtualization software separates a physical computing device into one or more "virtual" devices, each of which can be easily used and managed to perform computing tasks. With operating system-level virtualization essentially creating a scalable system of multiple independent computing devices, idle computing resources can be allocated and used more efficiently.

Virtualization provides the agility required to speed up IT operations and reduces cost by increasing infrastructure utilization. Autonomic computing automates the process through which the user can provision resources on-demand. By minimizing user involvement, automation speeds up the process, reduces labor costs and reduces the possibility of human errors.

1.4. WHAT IS WORDPRESS ?

WordPress was released on May 27, 2003, by its founders, American developer Matt Mullenweg and English developer Mike Little, as a fork of b2/cafeblog. The software is released under the GPLv2 (or later) license.

WordPress (WP, WordPress.org) is a free and open-source content management system (CMS) written in PHP and paired with a MySQL or MariaDB database. Features include a plugin architecture and a template system, referred to within WordPress as Themes. WordPress was originally created as a blog-publishing system but has evolved to support other web content types including more traditional mailing lists and forums, media galleries, membership sites, learning management systems (LMS) and online stores. One of the most popular content management system solutions in use, WordPress is used by 42.8% of the top 10 million websites as of October 2021.

2. E-COMMERCE WEBSITE USING WORDPRESS IN GCP :

2.1. OBJECTIVE :

The project is an E-Commerce website created using Wordpress in GCP. Usually, creating an website is a huge process but using cloud computing and wordpress you can create any kind of website in just 2 hours(min). We are going to create our E-Commerce website using these great technologies.

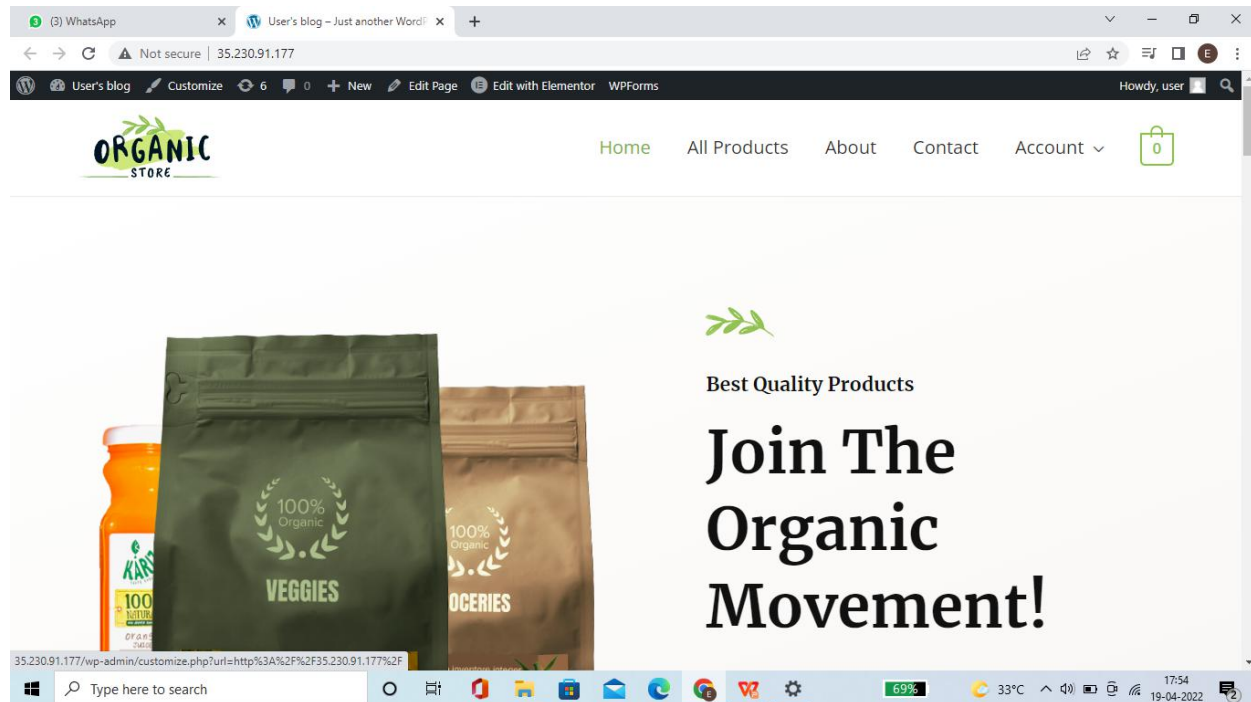
2.2. MODEL IMPLEMENTATION :

- Firstly,Create an account in GCP.
- Create an project to work.
- Choose best wordpress provider in GCP.
- Launch Wordpress instance.
- After launch,login to your wordpress account by the credentials provided in GCP.
- And the website will also be created.
- Design the as per the need.

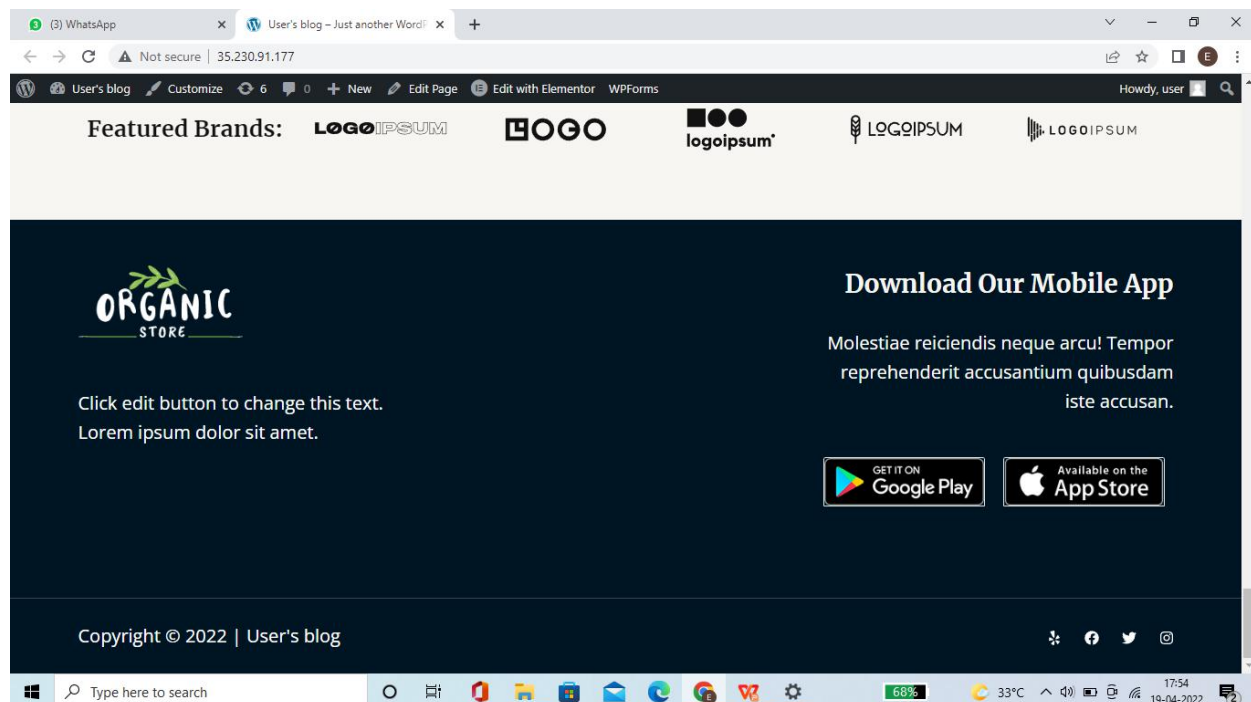
2.3. METHODOLOGY :

- First the account has to be created in GCP using Google account.
- Then create an project to work and search for best wordpress provider and choose the right one.
- Then launch the wordpress instance with machine type as n1-standard-1 and other required things.
- Once the wordpress instance is launched , the links will be provided for the website and wordpress .
- Login to the wordpress account using the credentials provided.
- Then design the website by changing the themes and adding templates.
- After adding the template,edit that as per the need,our website is an Organic Store.

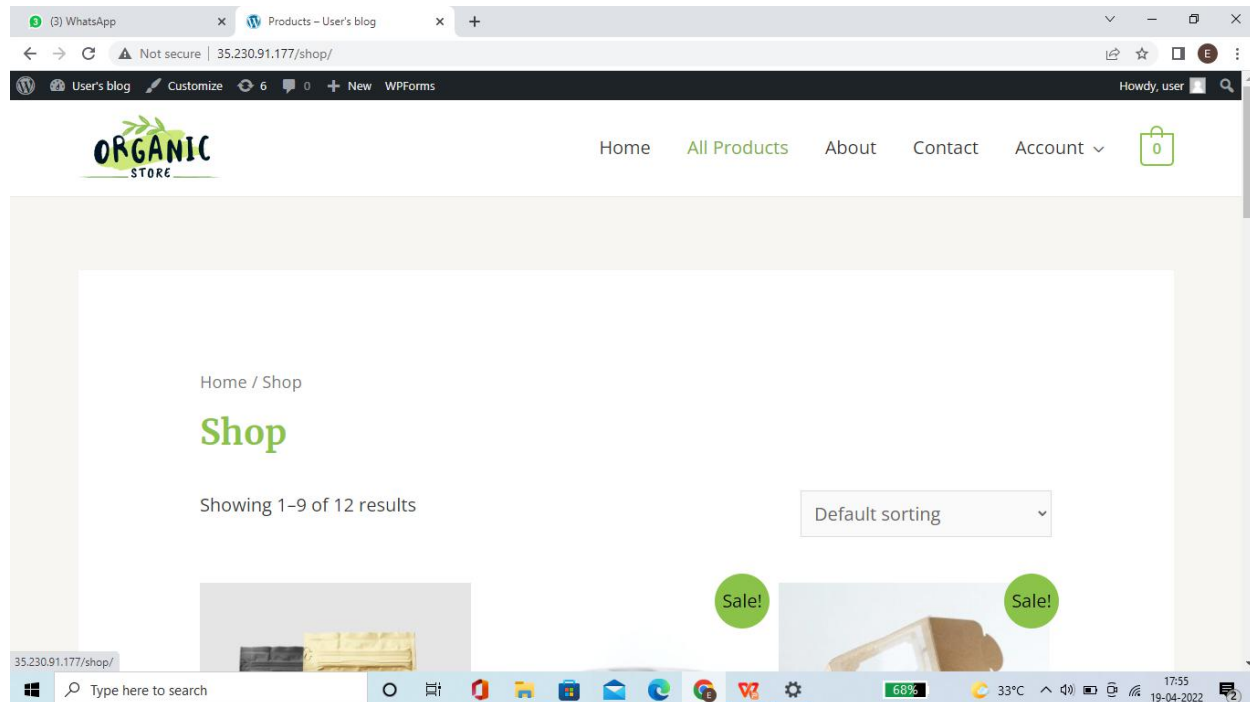
3 .WEBSITE SNAPSHOTS :



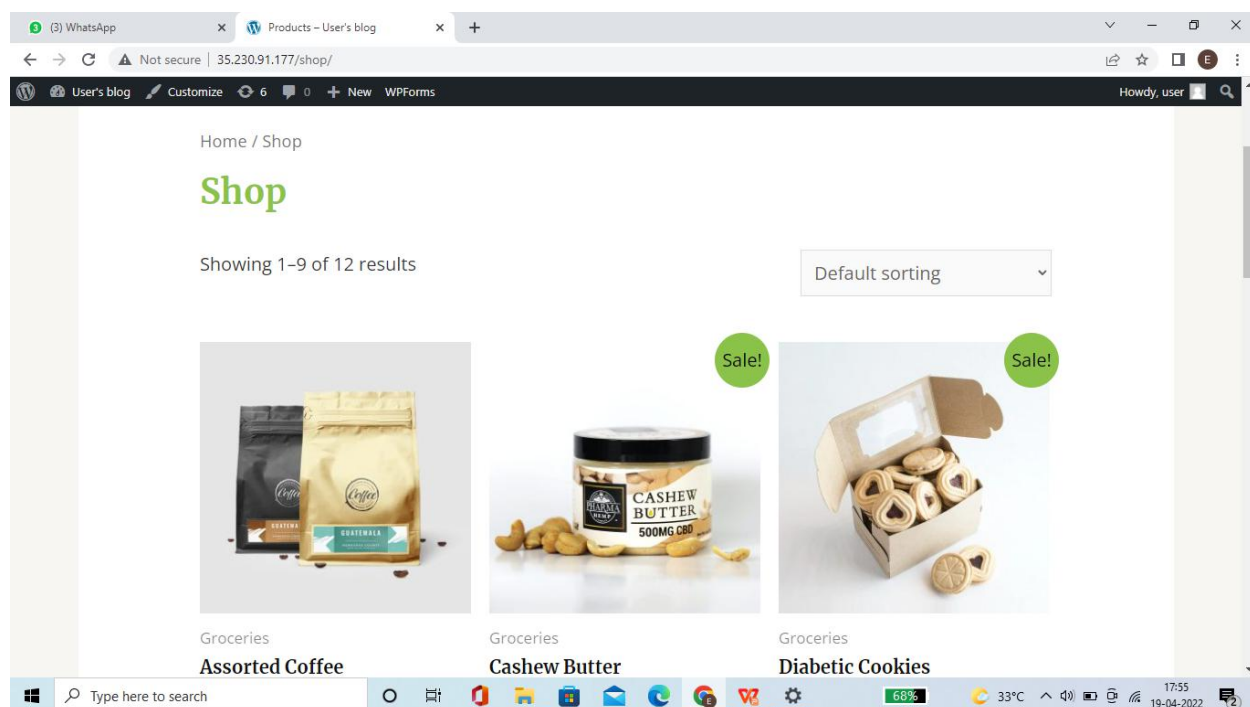
3.1.HOME PAGE



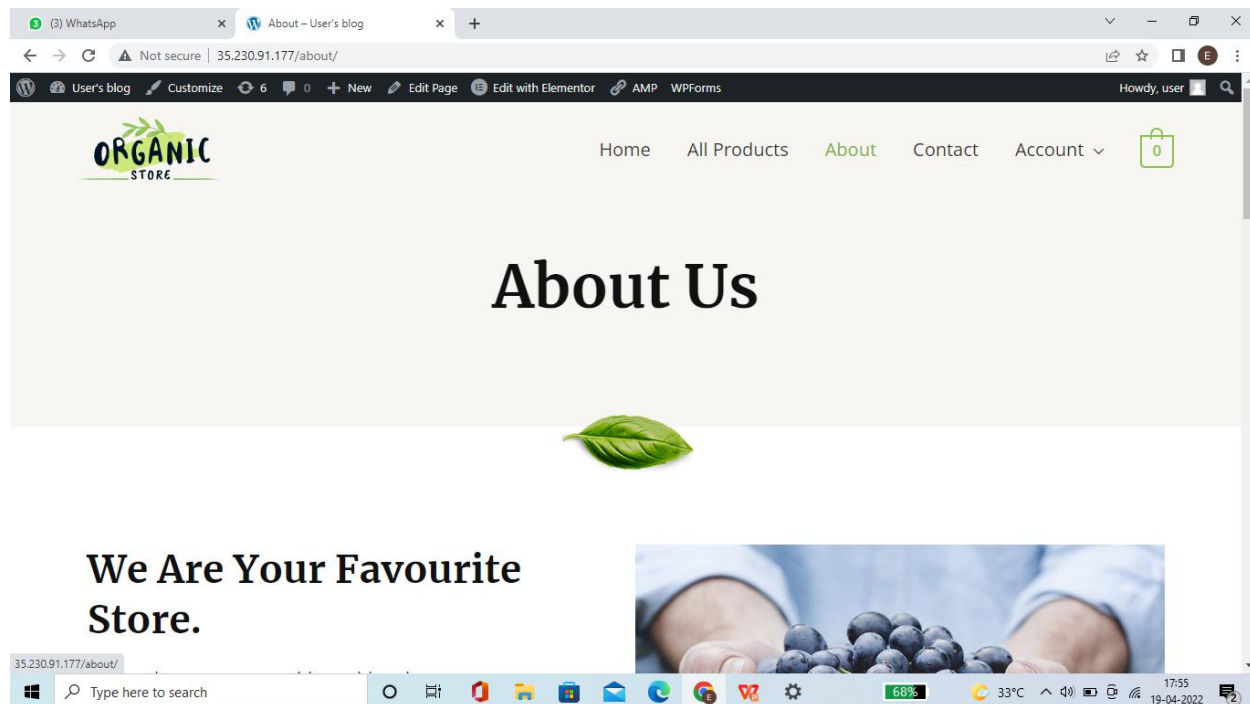
3.2. BOTTOM OF THE PAGE



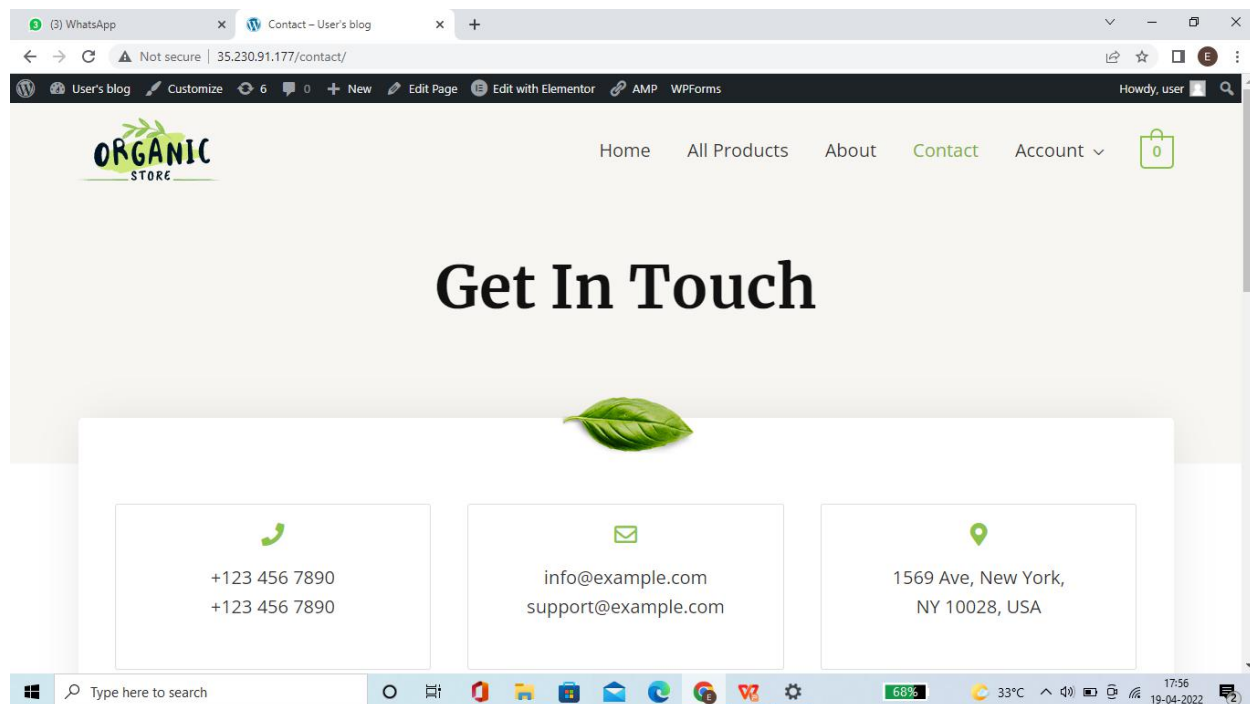
3.3. ALL PRODUCTS PAGE



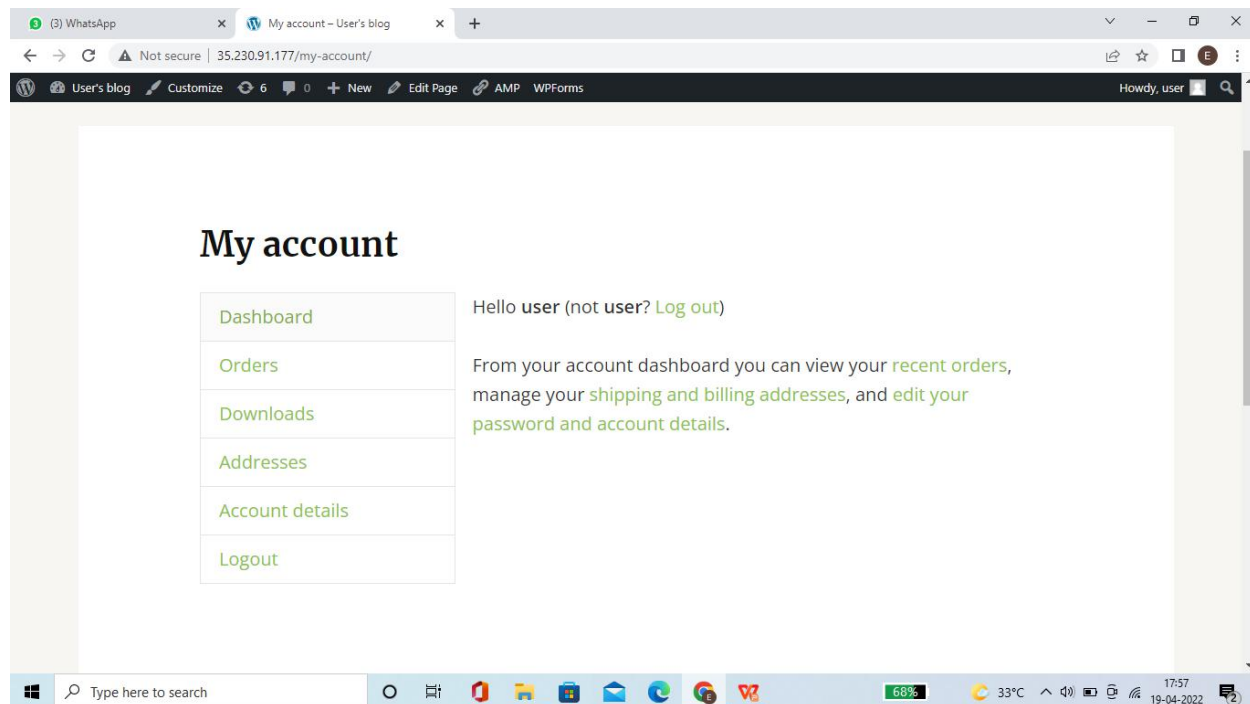
3.4. ALL PRODUCTS PAGE (cont)



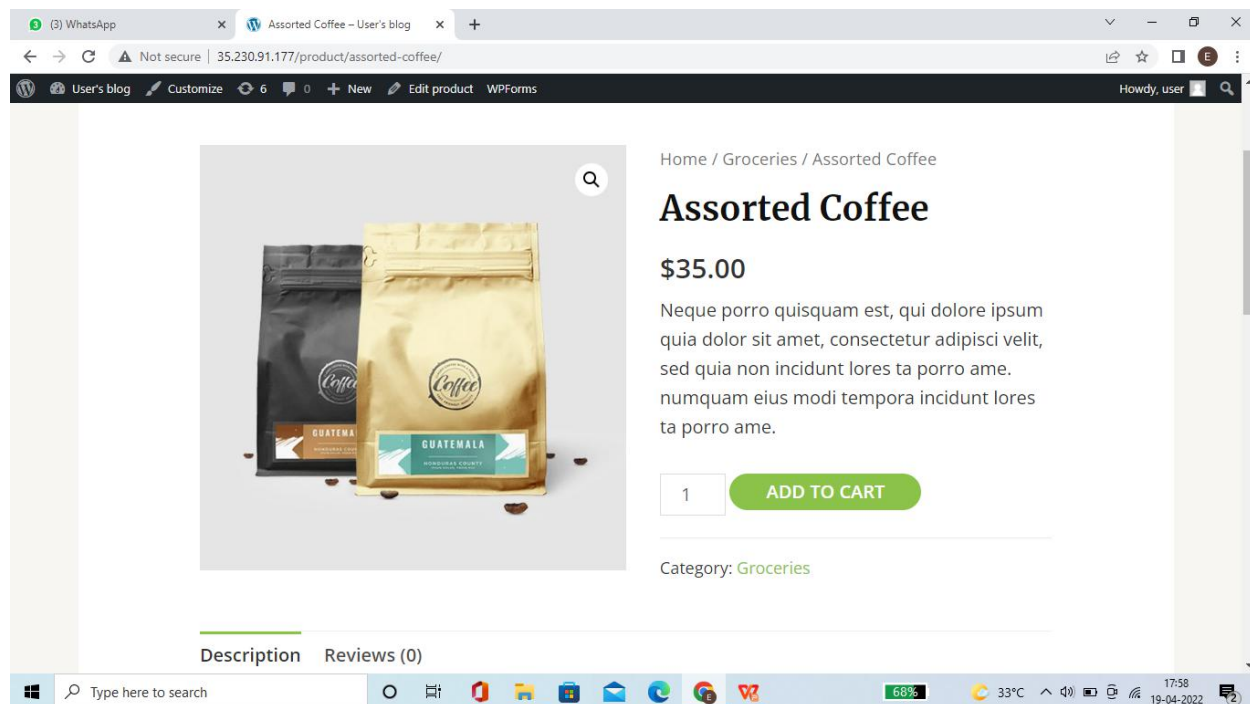
3.5.ABOUT US PAGE



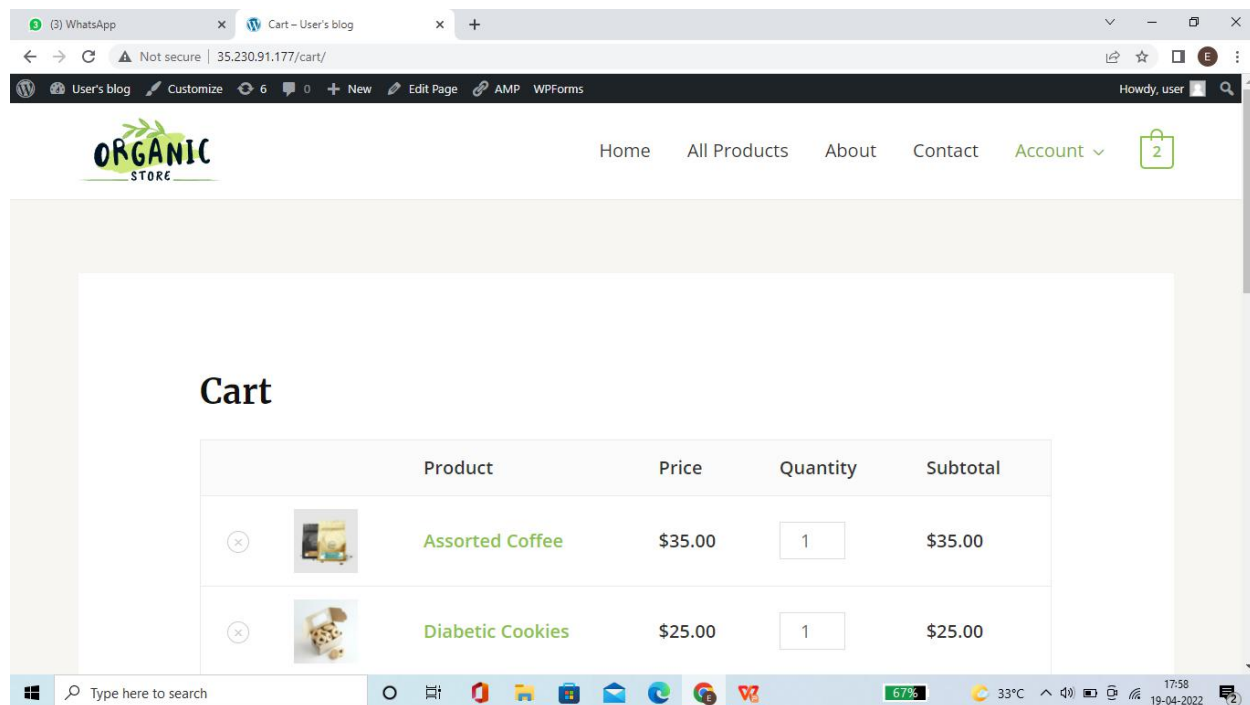
3.6. CONTACT PAGE



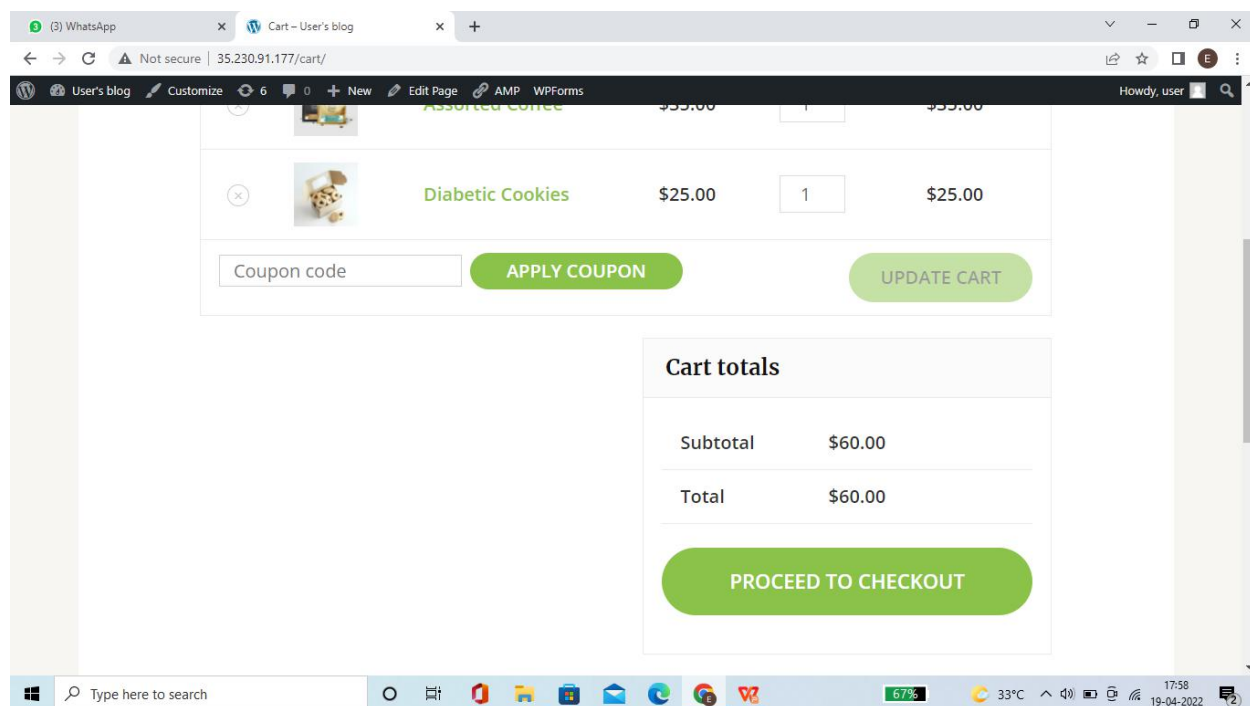
3.7. MY ACCOUNT AREA



3.8. PRODUCTS VIEW PAGE



3.9. MY CART PAGE



3.10.MY CART PAGE(cont)

Checkout

☐ Have a coupon? [Click here to enter your code](#)

Billing details

First name *

Last name *

Company name (optional)

Country / Region *

Your order

Product	Subtotal
Assorted Coffee × 1	\$35.00
Diabetic Cookies × 1	\$25.00
Subtotal	\$60.00
Total	\$60.00

3.11.BILLING PAGE

Billing

contact us if you require assistance or wish to make alternate arrangements.

Your personal data will be used to process your order, support your experience throughout this website, and for other purposes described in our [privacy policy](#).

PLACE ORDER

Billing details

State

ZIP Code *

Phone *

Email address *

Additional information

Order notes (optional)

Notes about your order, e.g. special notes for delivery.

3.12.BILLING PAGE (cont)

4 .RESULT AND CONCLUSION :

4.1. RESULT

- By following the methodology ,the E-Commerce website is created and deployed successfully .
- To make the website available for everyone over the internet, need to add domain and SSL certificate to the Website ,that might cost some amount .

4.2. CONCLUSION

- The website is an E-Commerce website for an online Organic Store as attached in here as website snapshots.
- This is the link for the website
<http://35.230.91.177/>
- As of now ,the website has not given an Domain and SSL certificate .
- In future, if I have a chance I'll do that.

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