INVENTROM FRONT END WEBSITE DEVELOPMENT

An Internship report submitted by

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in partial fulfillment for the award of the degree
of

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE AND ENGINEERING

under the supervision of

Dr.P.Getzi Jeba Leelipushpam, Ph.D,Associate Professor

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

KARUNYA INSTITUTE OF TECHNOLOGY AND SCIENCES
(Declared as Deemed to be University-under Sec-3 of the UGC Act, 1956)
Karunya Nagar, Coimbatore - 641 114. INDIA

March 2022

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BONAFIDE CERTIFICATE

This is to certify that the report entitled, **"INVENTROM FRONT END WEBSITE DEVELOPMENT"** is a bonafide record of Internship work done at **Bolt-Iot** during the academic year 2021-2022 by

L.CHRISTINA SHERIN   (Reg. No: URK19CS063)

in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Karunya Institute of Technology and Sciences.

Submitted for the Viva Voce held on _____

Guide Signature

Dr.P.Getzi Jeba Leelipushpam,Ph.D,

Associate Professor

ACKNOWLEDGEMENT

First and foremost, I praise and thank ALMIGTHY GOD whose blessings have bestowed in me the will power and confidence to carry out my Internship.

I am grateful to our beloved founders **Late. Dr. D.G.S. Dhinakaran, C.A.I.I.B, Ph.D** and **Dr. Paul Dhinakaran, M.B.A, Ph.D**, for their love and always remembering us in their prayers.

I extend my thanks to our Vice Chancellor **Dr. P. Mannar Jawahar, Ph.D** and our Registrar **Dr. Elijah Blessing, M.E., Ph.D,** for giving me this opportunity to do the internship.

I would like to thank **Dr. Prince Arulraj, M.E., Ph.D.,** Dean, School of Engineering and Technology for his direction and invaluable support to complete the same.

I would like to place my heart-felt thanks and gratitude to **Dr. J. Immanuel John Raja, M.E., Ph.D.,** Head of the Department, Computer Science and Engineering for his encouragement and guidance.

I feel it a pleasure to be indebted to, **Dr. J. Andrew, M.E, (Ph.D.),** Assistant Professor, Department of Computer Sciences Technology and **Dr.P.Getzi Jeba Leelipushpam** (guide) for their invaluable support, advice and encouragement.

I also thank all the staff members of the Department for extending their helping hands to make this in Internship a successful one.

I would also like to thank all my friends and my parents who have prayed and helped me during the Internship.

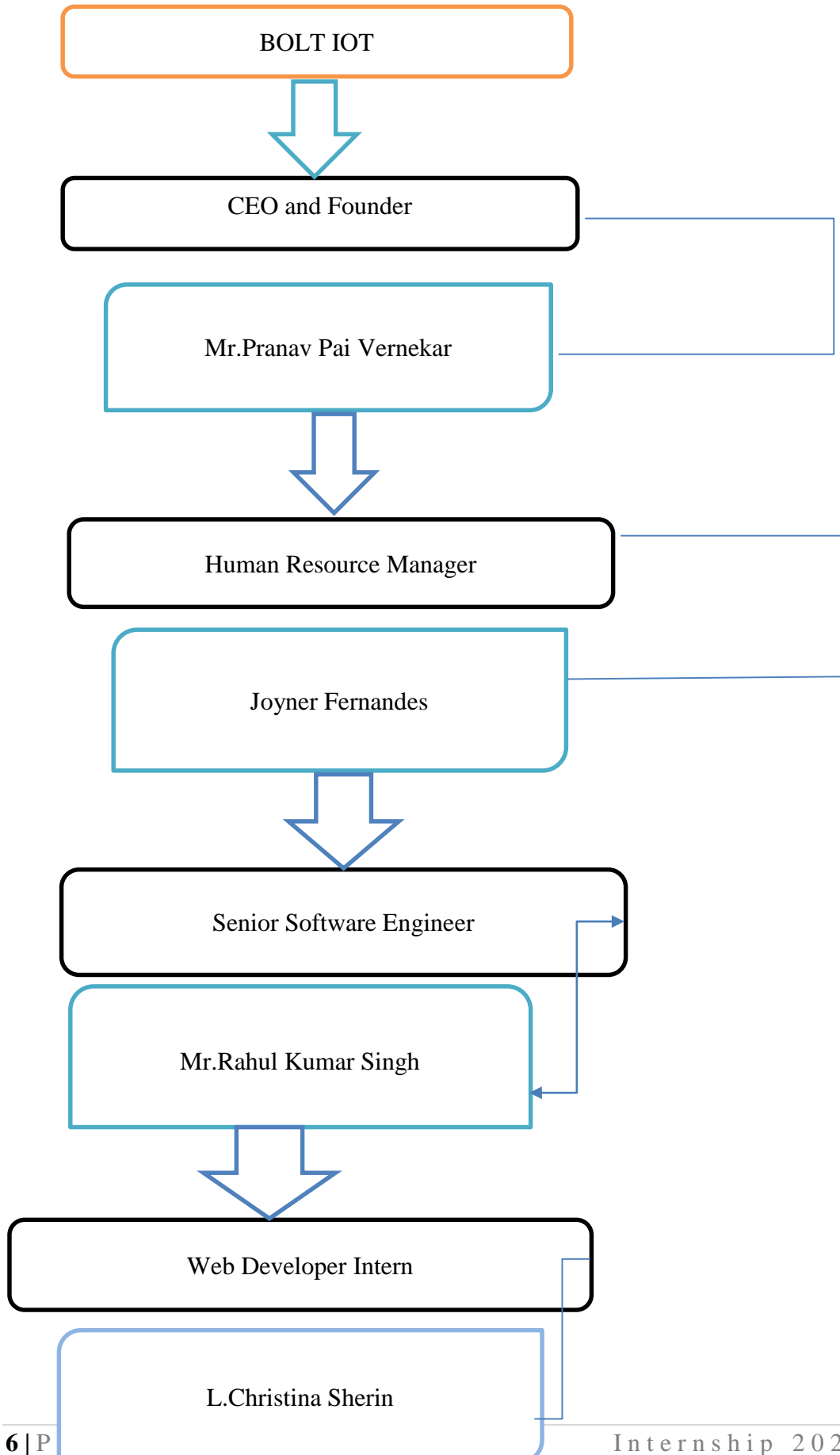# CONTENTS

Chapter-1

Introduction

1.1 Company Profile

Bolt:Iot is a part of Inventrom Privated Limited, Bangalore which is one of the biggest manufacturers of Iot-products in India. The company also provides online video training for students to enhance their skills in Machine Learning and Iot. During the training , the students were taught to build field related projects. It also organize workshops on regular basis on newly emerging technologies. It also provides internship opportunities for students in their pre-final and final year.

1.2 Objective of the company

- ➢ Bolt is a fully integrated IoT platform for developers that helps them build IoT projects and products quickly and easily.
- ➢ It is a platform designed for Makers and Developers to build IoT Projects.
- ➢ Bolt is one of the best ways to get started with your IoT development and also to learn Iot.

1.3.Organization Chart

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┌─────────────────────────────────┐
│            BOLT IOT             │
└─────────────────────────────────┘
              ↓
┌─────────────────────────────────┐
│         CEO and Founder          │
└─────────────────────────────────┘
┌─────────────────────────────────┐
│      Mr.Pranav Pai Vernekar      │
└─────────────────────────────────┘
              ↓
┌─────────────────────────────────┐
│     Human Resource Manager       │
└─────────────────────────────────┘
┌─────────────────────────────────┐
│        Joyner Fernandes          │
└─────────────────────────────────┘
              ↓
┌─────────────────────────────────┐
│    Senior Software Engineer      │
└─────────────────────────────────┘
┌─────────────────────────────────┐
│      Mr.Rahul Kumar Singh        │
└─────────────────────────────────┘
              ↓
┌─────────────────────────────────┐
│       Web Developer Intern       │
└─────────────────────────────────┘
┌─────────────────────────────────┐
│       L.Christina Sherin         │
└─────────────────────────────────┘
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1.3 Overview of the Internship

The internship took place in 2 phases

1.Web development Training

One month online video based training on basic web development like Html, Css and javascript was provided.

A coffee shop front end website was taught to be built. The website was made responsive.

Chapter wise training on each modules on web development was taught during video based learning sessions.

2.Web development Internship

As a part of the internship, a project was assigned to each student intern. A front end website with specific details about the company was given as a task. The details on how the website should look like was shared and the same website was deployed using online hosting service.

1.4 Chapter wise Summary

- **First Chapter**

  The first chapter is about the overview of the company.

- **Second Chapter**

  The second chapter is about the project details and the purpose of undertaking an internship on   web development side.

- **Third Chapter**

  The third chapter is about what a student has gained out of the internship. It also gives a detailed explanation about getting certified in Bolt-Iot platform.

- **Fourth Chapter**

  The fourth chapter is about the applications of the internship in real time. It also highlights the   importance of learning web development.

- **Fifth Chapter**

  The fifth chapter is about the summary of the internship experience and the scope of web development in future.

Chapter-2
Nature of the Internship

2.1 Purpose

The purpose of the internship is

- ➢ To gain a basic understanding of front end web development.
- ➢ To design websites which are responsive.
- ➢ To help the students get a hands on experience on front end website development.

2.2 Technical Exposure Gained

- ➢ Styling a website using css style sheet
- ➢ Testing and validating the website
- ➢ Knowledge about frameworks.
- ➢ Knowledge about using the sublime text editor.
- ➢ Procedure to store the website development data files.
- ➢ Basic understanding of scripting language.

2.3 Project Details
2.3.1 Objective

To develop a user friendly , interactive and responsive front end website for the company Bolt:Iot.

2.3.2 Module Details

This site should have the following 6 components:

1. Navigation Bar
2. Background image with Text section
3. About US section
4. Awards section
5. Contact
6. Footer

1.Navigation Bar

Navigation bar will have one logo(**Inventrom**) and three links(**About**, **Awards** and **Contact**) and when you click on these link it will scroll within the page to the respective section. For example: When you click on About section, it will scroll the page to About Us section.

2. Background image with Text section

This section will have one image in the background and some text on top of the image.
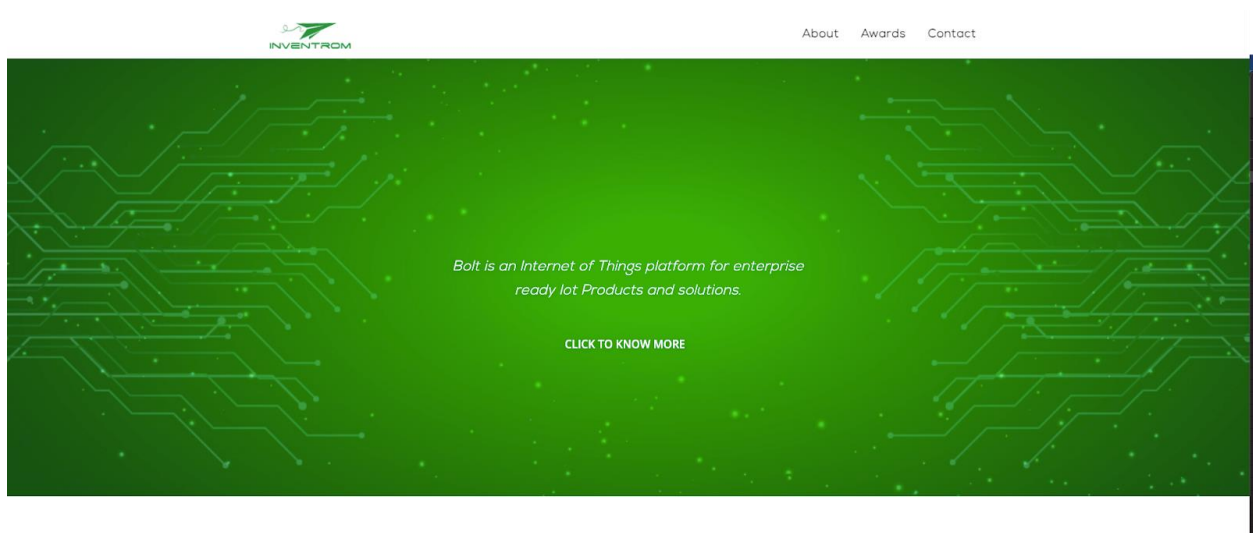
3. About Us

About Us section will have some details about Bolt Platform then just below the details there will be two cards.

4. Awards Section

Here you have to add the details about Awards. Just below each image, there will be the text as shown in the below picture.

5. Get in touch section:

The get in touch section will have a form that allows the users to fill the required details.

6. Footer:

Footers of the page will have copyright text and social icons.


Design color schemes:

1. Navigation menu text color: #0a0a0a
2. Section main text color: #139139
3. Footer background color: #139139
4. Other text: #000000

2.3.3 Implementation Details

1.Navigation Bar

A navigation bar was built and tested to make sure it is working.3 classes were defined .Under the first class nav bar background was created and under the second , nav list was created. The third one was created for the logo. Required styling was given to the nav bar to make it User friendly.

2. Background image with Text section
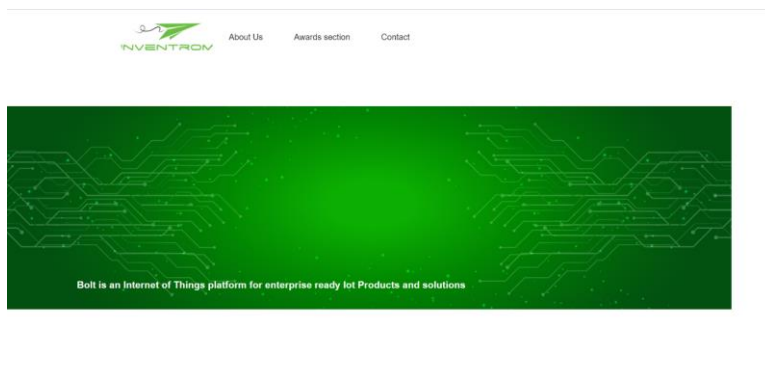
The text was made visible on the background using class attribute that was specified along with the heading tag.

3. About Us
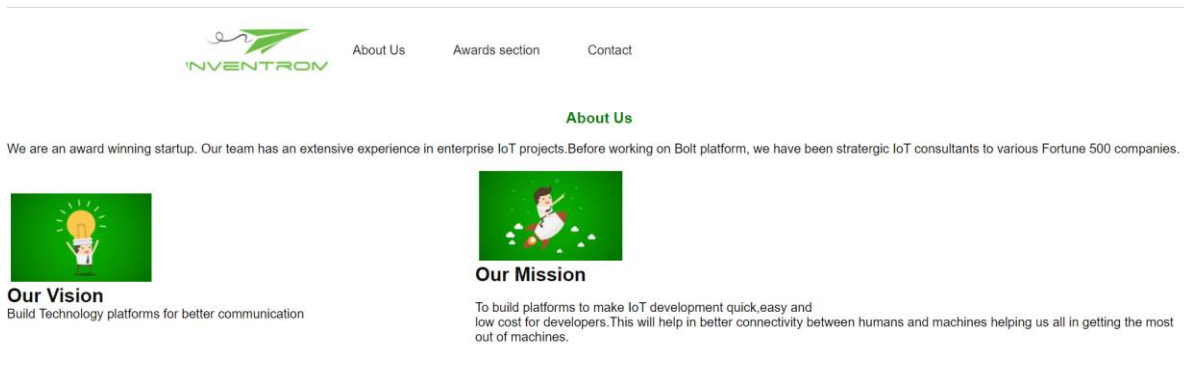
A div class was constructed for the About Us section. Two separate figure attribute along with figure caption was created, the text was aligned in right and center respectively using align-items attribute.

5. Awards Section

The Awards section was created using the same steps as the About Us section.

6. Get in touch section:

The get in touch section was created using Java script

7. **Footer:**

The footer section was made using bootstrap .The social media icons were made responsive.

Chapter-3

## Outcomes of the Internship

3.1 Impacts of the Internship

As a part of the internship ,I was given 1 month training on bolt iot platform where the basics of web development was taught by letting the students have a hands on experience on html ,css and javascript. A coffee shop website was taught to be built.

Styling was added to the coffee menu using gradient to differentiate each rows and to hover over them , in order to make it user friendly.

Coffee Name	Price(in Rs.)	Availablity
Mocha	140	Out Of Stock
Cappuccino	170	In stock
Espresso	230	In stock
Double Espresso	200	In stock
Latte	190	In stock

The coffee menu was displayed as picture and the images were positioned in an orderly fashion using proper padding and proper margin specifications along with the div tag
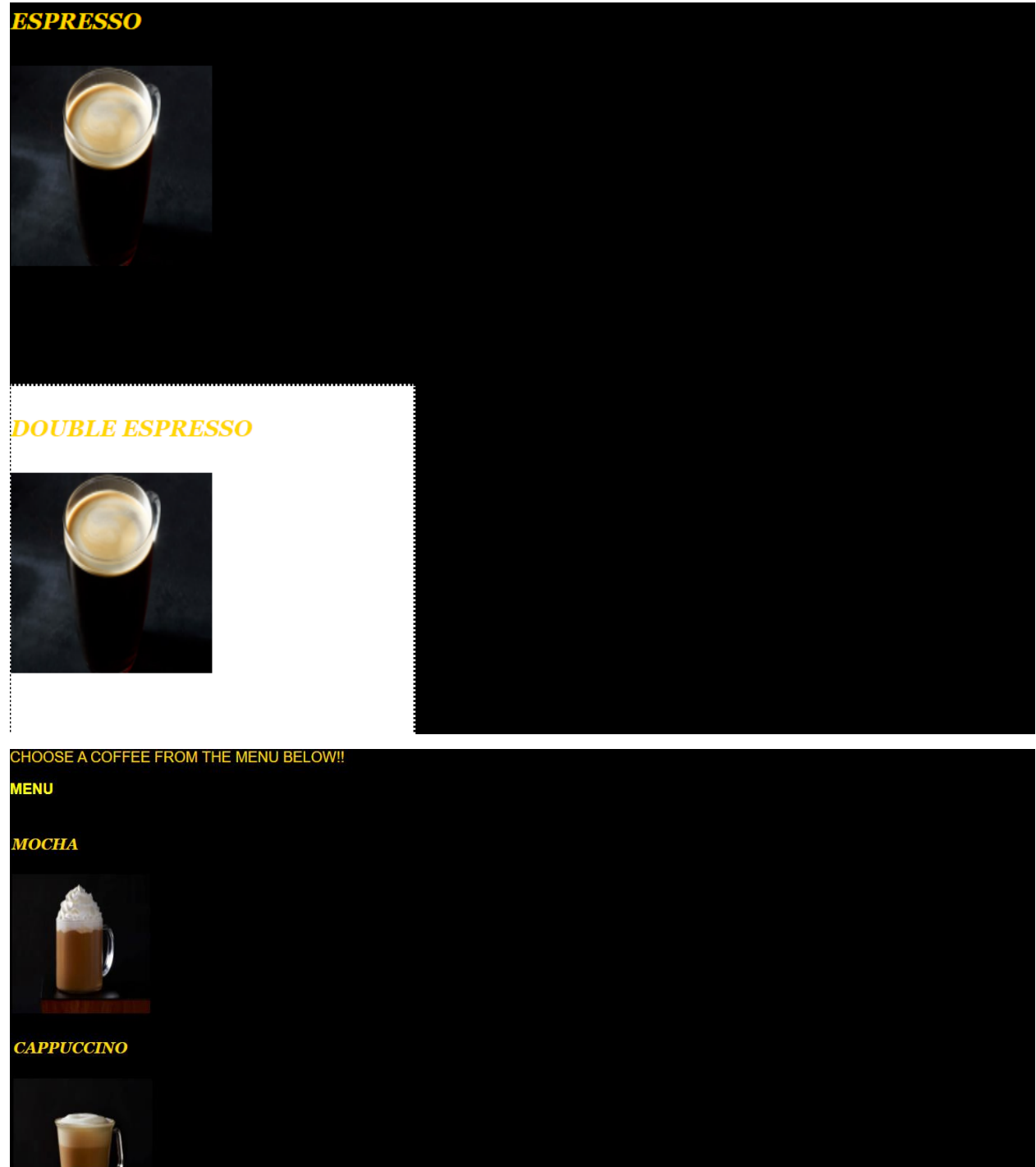
An order form was created using javascript.Required navigation links are created in such a way that when the user clicks on the text, it will navigate into the specified webpage.

3.2 Training and Project Completion.

Training Completion Certificate:
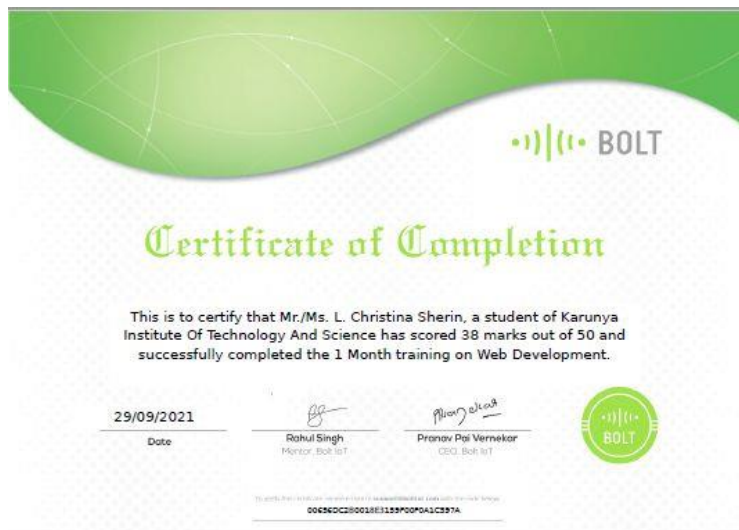
A mcq based test was conducted as a part of training assessment and web development skills were judged based on the evaluation. Upon the completion of the training , a certificate of completion

signed   by   the   mentor   and   CEO   was   issued.

BOLT

Date: 29/11/2021

INTERNSHIP COMPLETION CERTIFICATE

To Whom-so-ever- It May Concern

This is to certify that Christina Sherin has successfully completed a Remote Internship at Inventrom Private Limited – Bolt IoT for the duration of six weeks. During this duration, Christina worked as Web App Developer Intern on the project Inventrom Website under the guidance of Senior Software Developer and Mentor Mr. Rahul Kumar Singh.

We take this opportunity to thank Christina and wish them all the best for their future.

For Inventrom Private Limited,

Joyner Fernandes
Human Resources Manager

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Ph: 8881197198 E-mail: contactus@boltiot..com, Website: www.boltiot.com

Upon the completion of the project ,an internship completion certificate was issued. The project was evaluated based on predefined metrics and standards kept by the company .Only on the successful completion of the internship tasks and training the certificate was provided to ensure the quality of the internship.

3.3 Applications of Internship

Web development plays a major role in software development. The internet is flooded with webpages that directs to other websites. With the help of web application development, websites on various genre can be designed and implemented.

Some of the examples are
- ➢ Personal blogs and Portfolio websites
- ➢ E-Commerce website
- ➢ Ed-Tech Website
- ➢ Online library website
- ➢ Hotel reservation website
- ➢ Restaurant website
- ➢ Social media website

Chapter-4
Conclusions and Future Directions

Practical exposure on the field of web development was gained as a part of the internship. With further designing and implementation knowledge , complex website application that includes data base connectivity can be developed.This web development internship provided a pathway into the field of web application development.

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