VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI – 590018, Karnataka

INTERNSHIP REPORT

ON

"TEMPLATE FOR VCT TEA"

Submitted in partial fullfilment for the award of degree(18CSI85)

BACHELOR OF ENGINEERING IN
COMPUTER SCIENCE

Submitted by:

Ganapati Shankar Hegde

1CR19CS057

Conducted at
VARCONS TECHNOLOGIES PVT LTD.

CMR INSTITUTE OF TECHNOLOGY
Department of Computer Science
Accredited by NAAC,AECS Layout
Kundalahalli,Bangalore

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CERTIFICATE

This is to certify that the Internship titled **"Template for VCT Tea – a site to sell tea online"** carried out by **Mr. GANAPATI SHANKAR HEGDE (1CR19CS057),** a bonafide student of CMR Institute of Technology, in partial fulfillment for the award of **Bachelor of Engineering**, in **Computer Science and Engineering** under Visvesvaraya Technological University, Belagavi, during the year 2022-2023. It is certified that all corrections/suggestions indicated have been incorporated in the report.

The project report has been approved as it satisfies the academic requirements in respect of Internship prescribed for the course Internship / Professional Practice (18CSI85)

Signature of Guide **Signature of HOD** **Signature of Principal**

External Viva:

Name of the Examiner Signature with Date

1)_____
_____

2)_____
_____

D E C L A R A T I O N

I, **GANAPATI SHANKAR HEGDE**, final year student of **Computer Science and Engineering**, CMR Institute of Technology-560037 declare that the Internship has been successfully completed, in **VARCONS TECHNOLOGIES PVT LTD**. This report is submitted in partial fulfillment of the requirements for award of Bachelor Degree in Information Science and Engineering, during the academic year 2022-2023.

Date :25-09-2022 :

Place : Bangalore

USN : 1CR19CS057

NAME : Ganapati Shankar Hegde

OFFER LETTER PROVIDED BY THE COMPANY

Internship Offer Letter

Varcons Technologies Pvt Ltd

Date: **23rd August, 2022**

Name: **Ganapati Shankar Hegde**
USN: **1CR19CS057**

Dear Student,

We would like to congratulate you on being selected for the **Full Stack Web Development** Internship position with **Varcons Technologies Pvt Ltd**, effective Start Date **23rd August, 2022**, All of us are excited about this opportunity provided to you!

This internship is viewed as being an educational opportunity for you, rather than a part-time job. As such, your internship will include training/orientation and focus primarily on learning and developing new skills and gaining a deeper understanding of concepts of **Full Stack Web Development** through hands-on application of the knowledge you learn while you train with the senior developers. You will be bound to follow the rules and regulations of the company during your internship duration.

Again, congratulations and we look forward to working with you!.

Sincerely,

Spoorthi H C
Director
Varcons Technologies Pvt Ltd
213, 2st Floor,
18 M G Road, Ulsoor,
Bangalore-560001

A C K N O W L E D G E M E N T

This Internship is a result of accumulated guidance, direction and support of several important persons. We take this opportunity to express our gratitude to all who have helped us to complete the Internship.

We express our sincere thanks to our Principal, for providing us adequate facilities to undertake this Internship.

We would like to thank our Head of Dept – Information Science and Engineering, for providing us an opportunity to carry out Internship and for his valuable guidance and support.

We would like to thank our Software Services for guiding us during the period of internship.

We express our deep and profound gratitude to our guide, Guide name, Assistant/Associate Prof, for her keen interest and encouragement at every step in completing the Internship.

We would like to thank all the faculty members of our department for the support extended during the course of Internship.

We would like to thank the non-teaching members of our dept, forhelping us during the Internship.

Last but not the least, we would like to thank our parents and friends without whose constant help, the completion of Internship would have not been possible.

NAME : GANAPATI SHANKAR HEGDE
USN : 1CR19CS057

ABSTRACT

As a result of many environmental and man made factors, on many farms the microorganism levels found in soils has diminished and the result is just mere dirt. Here's just one solution to quickly turn things around using Vermicompost tea. It has been used to replenish and correct the quality of the farming soils naturally and simply. Vermicompost teas are suitable for all types of farming and gardening practices.

Over all the years of studying natural ways of farming and for farmers to make their own fertilizers, Vermicompost tea come out on top. It is low technology, non toxic, safe, low capital input, less energy is used compared to thermal compost making. You can also tailor make the requirements to match the soil's needs by adding other products such as Calcium, Silica in minuscule amounts to the compost with benefit of the resulting product being bioavailable to plants at application.

Vermicompost tea is made by brewing worm castings. The process begins with harvesting the casting of compost worms. These castings are basically the end product of the food and other waste that is ingested by the worms used in worm composting. Some add clay, calcium, soil and other products to the compost. Others add sea weed, lime to the brew. Whilst the castings can be absorbed directly by the plant roots brewing them up is way less expensive and the tea is more easily absorbed.

In addition to the phenomenal benefits, the compost tea improves the water retention in plants and has been identified to control pests. Healthy soil is needed for growing plants and using Vermicompost tea is the right step toward achieving this. A sideways benefit is reducing landfills and underwater contamination and global warming.

Table of Contents

CHAPTER 1

COMPANY PROFILE

1. COMPANY PROFILE

A Brief History of Varcons Technologies

Varcons Technologies is a leading provider of cutting-edge technologies and services, offering scalable solutions for businesses of all sizes. Founded by a group of friends who started by scribbling their ideas on a piece of paper, today we offer smart, innovative services to dozens of clients. We develop SaaS products, provide Corporate Seminars, Industrial trainings and much more.

Smart solutions are at the core of all that we do at VCT. Our main goal is to find smart ways of using technology that will help build a better tomorrow for everyone, everywhere. SaaS offers a variety of advantages over traditional software licensing models and We here at VCT tend to include the key features of SaaS in everything we build.

VCA provides a host of services to its customers/users/clients, enabling business success driven by technology, harnessing the power of technology, they create a measurable difference for their clients across various industries and multiple geographies.

The services provided by the company are website as software, Branding and design, Search engine optimization, analytics and Research, Embedded systems and IOT.

At VCT, they make sure every product/service that the offer is built keeping in mind the practical usability of the product/Service, they are a startup focused on Creativity and Customizability, and they also provide subscription models for Software that they have already built, Since the application is already configured, the user has a ready-to-use application. This not only reduces installation and configuration time but also cuts down the time wasted on potential glitches linked to software deployment.

CHAPTER 2

ABOUT THE COMPANY

2. ABOUT THE COMPANY

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Products of Varcons Technologies.

Website as software

It is the process of developing websites that behave and interact similar to Sophisticated software.
Information + Functionality = WaaS

Analytics and Reasearch

It is the scientific process of transforming data into insights to making better decisions. Analytics is the application of scientific and mathematical methods to the study and analysis of problems involving complex systems.
To analyze the way your users/customers interact with you/your business by gathering, studying and understanding the consumer voice and their perception of the product/service to generate a report to help you make better market decisions.

Comprehensive customer support

It is a customer service that covers every aspect of customers' support. It is a service provided to help customers resolve any technical problems that they may have with a products or services.

With a comprehensive range of services company can guarantee your technology needs. Company works with customers/users closely to understand the way users or customers make use of products or services.

Smart automation tools

Smart automation is the autopilot or enhanced cruise control system that use cameras, radar and sonar to read and understand the immediate environment. An automated factory, office or process uses machines to do the work instead of people. Smart automation combines a deep understanding of workflow with robust granular data to allow highly efficient, accurate and controlled decisions to be made.

Smart automation is fully scalable to meet the needs of any sized client, surpassing current industry performance standards.

Innovations such as self driving cars and voice activated assistants for example Amazon's Alexa or Apple's Siri, are increasingly becoming the new norm. Smart automation is increasingly becoming the focus for the technology industry.

Company creates API's and tools that help you automate any process with a host of features pertaining to the device.

Services provided by Varcons Technologies.

- Website as software
- Branding and Design
- Search engine optimization
- Analytics and Research
- Comprehensive customer support
- Embedded systems and IOT

CHAPTER 3

INTRODUCTION

3. INTRODUCTION

Introduction to web apps

Web applications are similar to the traditional applications you'd install on your Information, such as Microsoft Office. They are able to perform the same kinds of tasks, they look the same and they feel the same but there is one key difference – the application itself is not installed on your phone or Information, but lives in the cloud. Web apps are not new, but it used to be that they were often unable to compete with more traditional applications for business critical functions or where rich user interaction was required. This is no longer the case. With the power of modern web technologies, we are able to design and build performing, secure, and feature rich applications that live in the cloud and bring with them a huge number of benefits.

1. They can be accessed from anywhere.

- Because web applications are built with web technologies and they run in a web browser Internet Explorer, Google Chrome, Mozilla Firefox – this allows them to be accessed from every web enabled tool. As long as you have an internet connection you can use them.
- It allows for remote working, it allows for rapid publishing of content, it allows for real time collaboration between teams. If you have web access, you have the ability to access your business tools.

2. They are cost effective.

- Web applications are cheaper to produce and maintain than traditional applications. No matter how many platforms your business uses (Mac, Linux, Windows) web application build can be used across them all.

3. They benefit from more rapid update cycles.

- A huge benefit of web applications is that when an update is released, all of your users are immediately using that version. This doesn't happen with installed applications, especially in large organizations with IT policies that restrict administrator access.

4. They are secure.

- Web developers have had to become experts in security – the web is a platform designed to share everything with everyone! As such, the types and levels of security included in web applications are often far greater than those seen in traditional applications.

- They also benefit from the ability to launch updates in real-time – the application on the servers is the application people are using. The applications on people's laptops however is the version last installed. And when those laptops get left on a train it's not a concern, as nothing is stored locally.

5. They enable more computing with fewer Information.

- Web applications push all of the hard work to the servers, and act as intermediaries between the user interface and the calculations happening behind the scenes. This means you can accomplish terrifyingly complex work on a tablet, or your phone.

6. They can be accessed from anywhere.

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Introduction to VCT Tea

Vermicompost Tea is the miracle elixir that will infuse your soil with beneficial microbes, prevent and treat plant diseases, ward off pests, improve soil structure, increase your soil's water-holding capacity, and promote the health, strength and yields of your plants!

vermicompost tea is an all-natural liquid fertilizer that is made from steeping worm castings (worm manure) in water. In this way the nutrients in the worm castings are extracted into the water and the resulting "tea" is used for watering and nourishing plants.
A wide range of agricultural residues, such as straw, husk, leaves, stalks, weeds etc can be converted into vermicompost. Other potential feedstock for vermicompost production are livestock wastes, poultry litter, dairy wastes, food processing wastes, organic fraction of MSW, bagasse, digestate from biogas plants etc**.**

A relatively new product from vermicomposting is vermicompost tea which is a liquid fertilizer produced by extracting organic matter, microorganisms, and nutrients from vermicompost. Unlike vermicompost and compost, this tea may be applied directly to plant foliage, reportedly to enhance disease suppression. Vermicompost tea also may be applied to the soil as a supplement between compost applications to increase biological activity.

Vermicompost tea infuse and repopulate soil with beneficial microbes, help prevent diseases and pests in both the soil and the plants, help reverse the effects of disease, help restore polluted soil**,** Improve soil structure by aerating it and making it more porous, increase the soil's water-holding capacity, promote more foliage and larger/thicker stems**,** Increase higher yield**,** Have a higher nitrogen, phosphorus and potassium content than other composts In organic farming have consistently yielded the best results compared to all other fertilizers**.**

Vermicompost tea is made by brewing worm castings. The process begins with harvesting the casting of compost worms. These castings are basically the end product of the food and other waste that is ingested by the worms used in worm composting. Some add clay, calcium, soil and other products to the compost. Others add sea weed, lime to the brew. Whilst the castings can be absorbed directly by the plant roots brewing them up is way less expensive and the tea is more easily absorbed.

In addition to the phenomenal benefits, the compost tea improves the water retention in plants and has been identified to control pests. Healthy soil is needed for growing plants and using Vermicompost tea is the right step toward achieving this. A sideways benefit is reducing landfills and underwater contamination and global warming.

Problem Statement

As a result of many environmental and man made factors, on many farms the microorganism levels found in soils has diminished and the result is just mere dirt. Here's just one solution to quickly turn things around using Vermicompost tea. It has been used to replenish and correct the quality of the farming soils naturally and simply. Vermicompost teas are suitable for all types of farming and gardening practices.

CHAPTER 4

SYSTEM ANALYSIS

4. SYSTEM ANALYSIS

1. Existing System

In the existing system all transactions, dealings of products, purchasing of products were done manually which is time consuming. To buy any product user has to collect information about it either by visiting the shop or by asking people which is better.

Other than this, in today's market there are many websites which sell agricultural products online. Such as fertilizers, pesticides, composts etc., altogether. In this kind of system user has to browse through a lot of unwanted products in order to buy VCT tea as there are no dedicated website which sells VCT tea only. So, our aim is to design a customized template for selling VCT tea.

2. Proposed System

Template for VCT Tea is a online VCT tea shopping website where buyer can buy vermicompost tea directly from manufacturers. Various types of farmer's products are available for purchase at reliable price.

It basically focuses on user friendly interfaces and promotes user to purchase the product faster.

It has registration facility and any information entered in registration table is very secure and no one can access the information. Security is given utmost importance while designing the website. If any user is not valid or involved in any kind of illegal work in the website is blocked by the admin. Even the user is not activated unless admin approves.

For any query buyer and producer both can contact admin through mail. They can use this facility any time.

3. Objective of the System

- Free and cost-effective marketing
- Access to variety of Vermicompost Tea
- Easy trade
- Making ordering process easier

CHAPTER 5

REQUIREMENT ANALYSIS

5. REQUIREMENT ANALYSIS

Hardware Requirement Specification

- HTML
- CSS
- JavaScript
- Visual Studio Code
- Processor: Intel core i5 processer
- Memory: 15.6 GB
- Hard Disk: 40 GB

Software Requirement Specification

A] Functional Requirements

- **Mobile Responsive**

  This includes mobile-first design that never ceases to gain particular popularity as a more advanced adaptive design option.

- **Product master**

  System includes the information of the products, categories etc.

B] Non-Functional Requirements

- **Availability**

The online registration system shall permit backing up of the registration database while other registration actives are going on.

- **Accessibility**

The system shall be accessible by people with specific vision needs to the extent that a user shall be able to display whole user interface in a larger font without truncating displayed text or other values.

CHAPTER 6

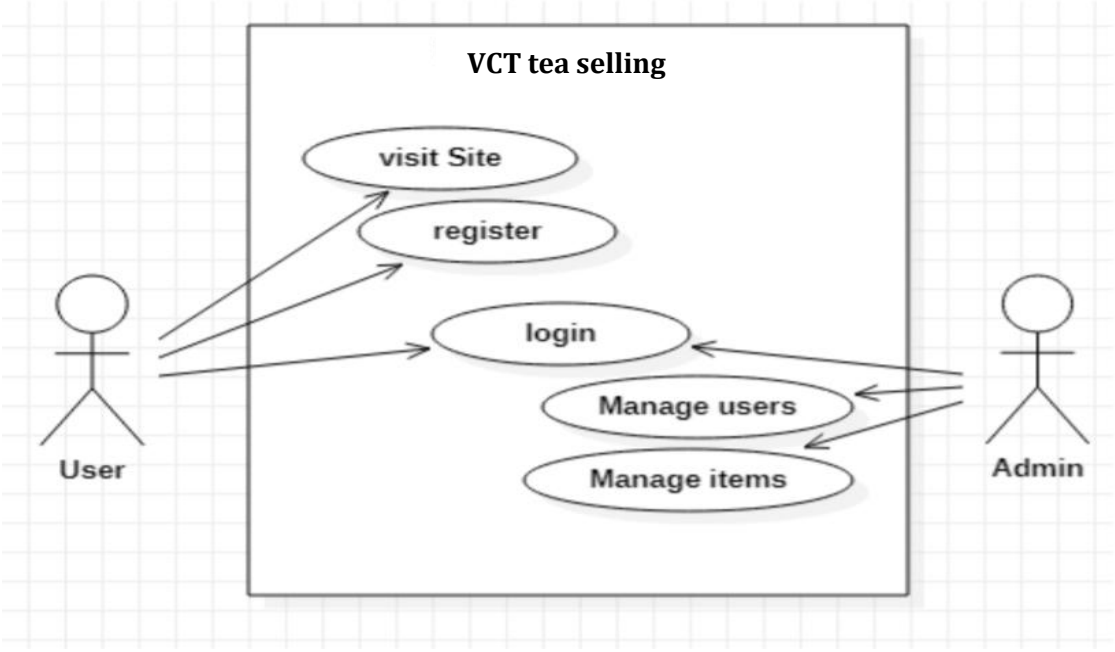
DESIGN ANALYSIS

6. DESIGN & ANALYSIS

System design is the solution to the creation of a new system. This phase is composed of several systems. This phase focuses on the detailed implementation of the feasible system. It emphasis on translating design specifications to performance specification. System design has two phases of development logical and physical design.

During logical design phase the analyst describes inputs (sources), out puts (destinations), databases (data sores) and procedures (data flows) all in a format that meets the user requirements. The analyst also specifies the user needs and at a level that virtually determines the information flow in and out of the system and the data resources. Here the logical design is done through data flow diagrams and database design.

The physical design is followed by physical design or coding. Physical design produces the working system by defining the design specifications, which tell the programmers exactly what the candidate system must do. The programmers write the necessary programs that accept input from the user, perform necessary processing on accepted data through call and produce the required report on a hard copy or display it on the screen



User module:
The system mainly consists of three pages namely, home, contact and login page. The user needs to register himself in the portal. Users can browse the catalog which consists of various vermicomposting products and can place order.
A dedicated contact-us page is provided for customer queries and grievances.

Admin module:
Admin can manage items and users.

CHAPTER 7

IMPLEMENTATION

7. IMPLEMENTATION

Implementation is the stage where the theoretical design is turned into a working system. The most crucial stage in achieving a new successful system and in giving confidence on the new system for the users that it will work efficiently and effectively.

The system can be implemented only after thorough testing is done and if it is found to work according to the specification. It involves careful planning, investigation of the current system and it constraints on implementation, design of methods to achieve the change over and an evaluation of change over methods a part from planning.

Two major tasks of preparing the implementation are education and training of the users and testing of the system. The more complex the system being implemented, the more involved will be the system analysis and design effort required just for implementation.

The implementation phase comprises of several activities. The required hardware and software acquisition is carried out. The system may require some software to be developed. For this, programs are written and tested. The user then changes over to his new fully tested system and the old system is discontinued.

TESTING

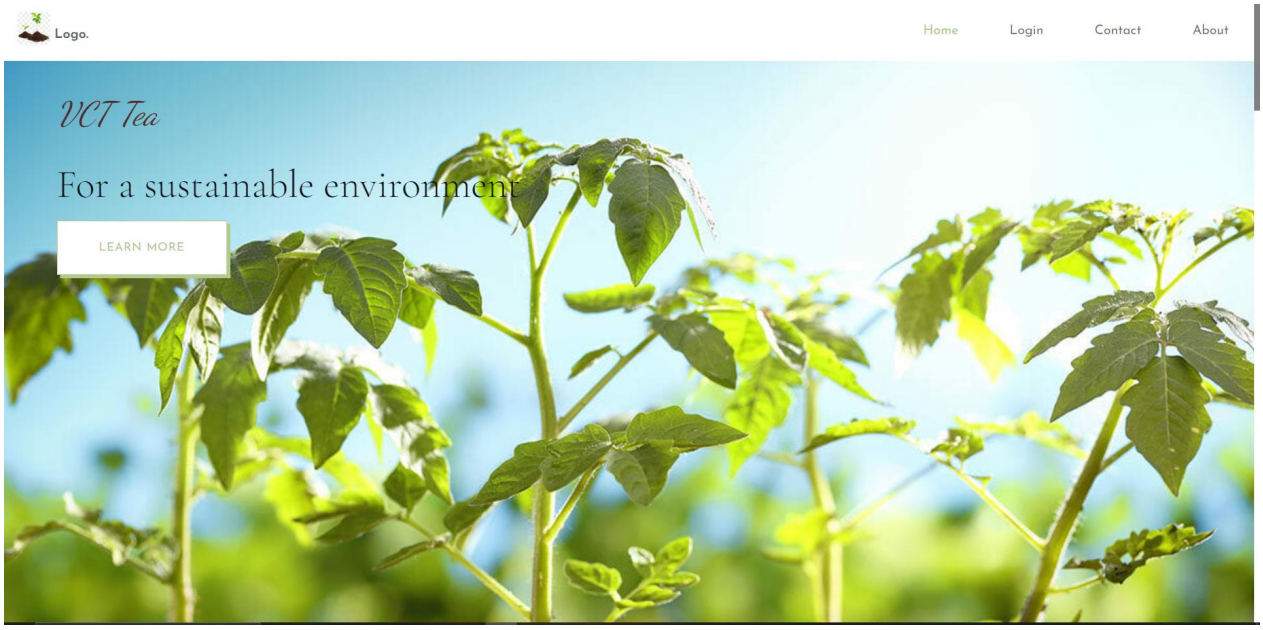
The testing phase is an important part of software development. It is the Information zed system will help in automate process of finding errors and missing operations and also a complete verification to determine whether the objectives are met and the user requirements are satisfied. Software testing is carried out in three steps:

1. The first includes unit testing, where in each module is tested to provide its correctness, validity and also determine any missing operations and to verify whether theobjectives have been met. Errors are noted down and corrected immediately.
2. Unit testing is the important and major part of the project. So errors are rectified easily in particular module and program clarity is increased. In this project entire system is divided into several modules and is developed individually. So unit testing is conducted to individual modules.
3. The second step includes Integration testing. It need not be the case, the software whose modules when run individually and showing perfect results, will also show perfect results when run as a whole.

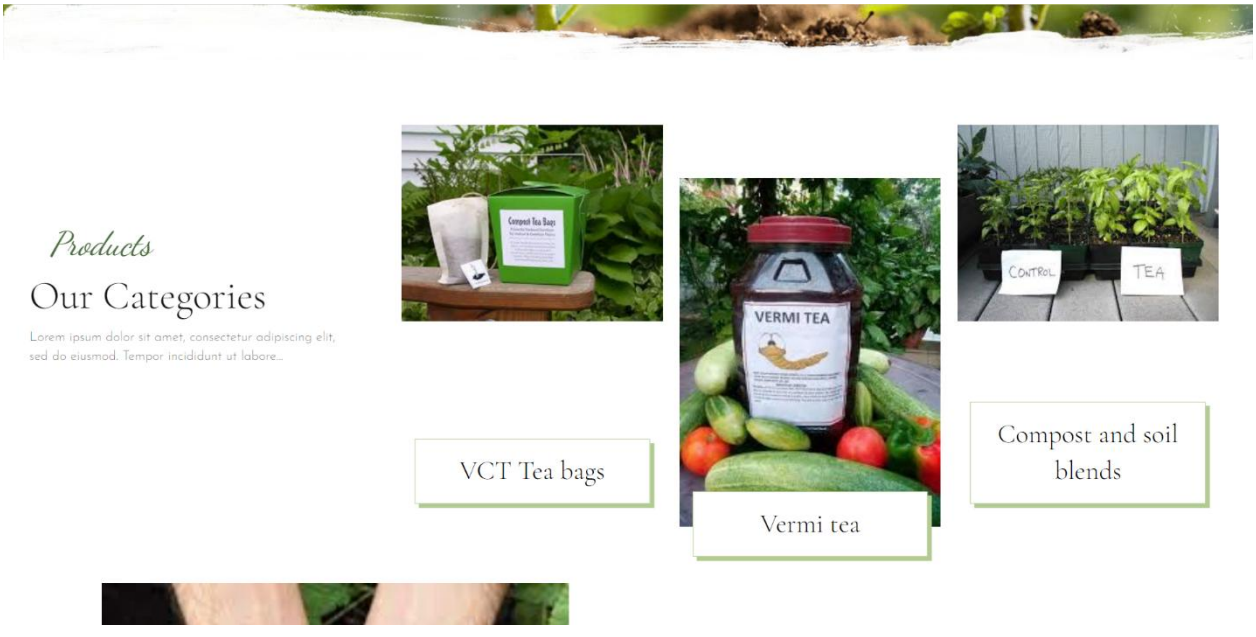
CHAPTER 8

SNAPSHOTS

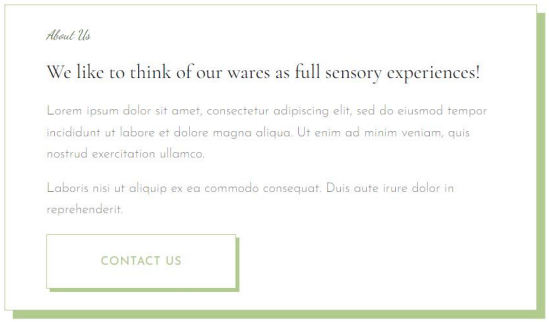
8. SNAPSHOTS



Home page

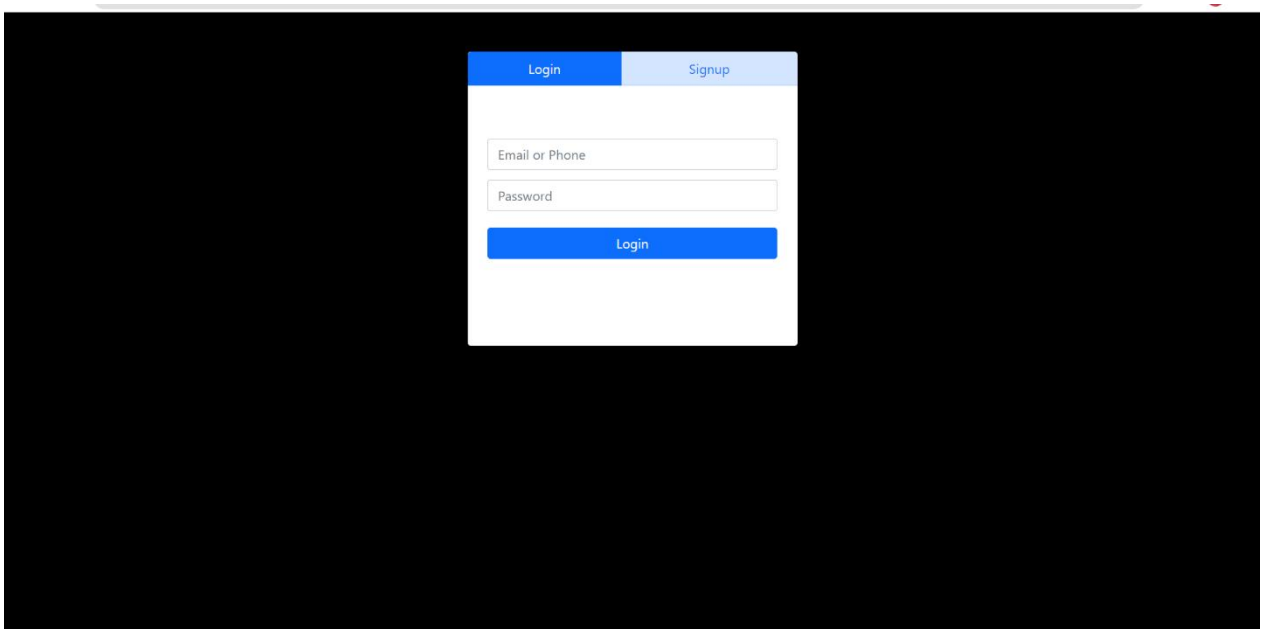


Products

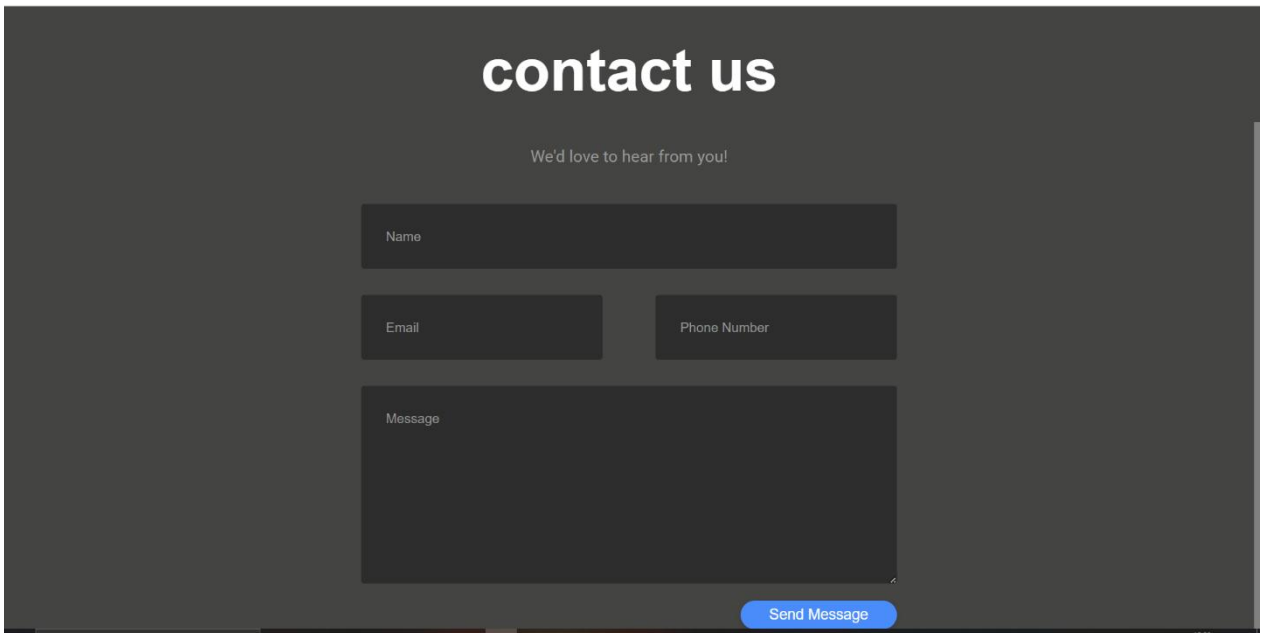


About us

About worm composting



Login page



Contact us

CHAPTER 9

CONCLUTION

9. CONCLUSION

The package was designed in such a way that future modifications can be done easily. The following conclusions can be deduced from the development of the project:

- Automation of the entire system improves the efficiency
- It provides a friendly graphical user interface which proves to be better when compared to the existing system.
- It gives appropriate access to the authorized users depending on their permissions.
- It effectively overcomes the delay in communications.
- Updating of information becomes so easier
- System security, data security and reliability are the striking features.
- The System has adequate scope for modification in future if it is necessary.

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