Agriculture GURU

A PROJECT REPORT

Submitted to University of Mumbai in partial fulfillment of the requirement for the degree of

BACHELOR OF ENGINEERING

In

COMPUTER ENGINEERING

Submitted By

Neelesh Kasukurthi

Jimit Bhatt

Raj Tiwari

Under the guidance of

Dr. D A Devmane

DEPARTMENT OF COMPUTER ENGINEERING

VASANTDADA PATIL PRATISHTHAN'S COLLEGE OF ENGINEERING & VISUAL ARTS SION , MUMBAI-400022

UNIVERSITY OF MUMBAI
2021-2022

Agriculture GURU

A PROJECT REPORT

Submitted to University of Mumbai in partial fulfillment of the requirement for the degree of

BACHELOR OF ENGINEERING

In

COMPUTER ENGINEERING

Submitted By

Neelesh Kasukurthi

Jimit Bhatt

Raj Tiwari

Under the guidance of

Dr. D A Devmane

DEPARTMENT OF COMPUTER ENGINEERING

VASANTDADA PATIL PRATISHTHAN'S COLLEGE OF ENGINEERING & VISUAL ARTS SION , MUMBAI-400022

UNIVERSITY OF MUMBAI
2021-2022

VASANTDADA PATIL PRATISHTHAN'S COLLEGE OF ENGINEERING & VISUAL ARTS SION,MUMBAI-400022

CERTIFICATE

This is to certify that the project work, entitled **Agriculture GURU** has completed successfully for the award of the Bach- elor of Engineering in Computer Engineering by

Neelesh Kasukurthi

Jimit Bhatt

Raj Tiwari

Dr. D A Devmane
Project Guide

Department of Computer Engineering

VASANTDADA PATIL PRATISHTHAN'S COLLEGE OF

ENGINEERING & VISUAL ARTS SION,MUMBAI-400022

PROJECT APPROVAL CERTIFICATE

This is to certify that the project work, entitled **Agriculture GURU** is approved for the award of the Bachelor of Engineering in Computer Engineering completed by

Neelesh Kasukurthi

Jimit Bhatt

Raj Tiwari

Internal Examiner	External Examiner
Name	Name
Date	Date

Project Convener

Head of Department

Principal

ABSTRACT

With the growing global crises of food and hunger is rising day by day and there are not many people who are thinking regarding the topic. The consumption rate is increasing day by day but the production rate is only drastically falling rather than increasing. With the surveys done in recent years; the world might see global food crises by 2050. The main contribution presented in the paper is one insignificant step towards the future by accepting the information about the farming process from the farmers to help them. We accept the information provided about their crop along with the information of the other farmers in their locality and we analyses all the information provided by farmers in their locality for the starting first year and then we provide them with the best possible farming process year after year to bring the best for them and the society. Towards a better future together.

ACKNOWLEGEMENT

The project report on **Agriculture GURU** is the outcome of the guidance, moral support and devotion bestowed on our group throughout our work. For this we acknowledge and express our profound sense of gratitude to everybody who has been the source of inspiration throughout project preparation. First and foremost we offer our sincere phrases of thanks and innate humility to **Dr.M.A.Devmane, HOD, Computer Department, VPPCOE&VA** and guide of our project for providing help whenever required.

The consistent guidance and support provided by **Dr.Alam Shaikh, Principal, VPPCOE&VA** is very thankfully acknowledged for key role played by him in providing us with precious ideas and suggestions and help that enabled in shaping the project work.

We can say in words that we must at outset tender our intimacy for receipt of affectionate care to VPPCOE&VA for providing such a stimulating atmosphere and conducive work environment.

Contents

List of Figures

List of Tables

Chapter 1

Introduction

Introduction

This Project mainly focuses on the features of suggesting the best possible outcome for the Farmer, we gather the information that a farmer is using throughout the agriculture process as when did he/she start: which Month, which date he/she is updating the information, What kind of crop is being sown, and we also take the inputs like which type of pesticide he/she is using for the crop to be protected, we also the input as to where he/she belongs to as which Country, city. We take the input of the total expense of the agriculture process from the very first step till the harvest, we then take the selling price like for how much did he earn for the whole crop he/she harvested. We then calculate the profit or loss for his/her crop. We then store all of it in a database, and for one year we keep track of the farmer not only him/her but all the farmers for at least a year. We then prompt them with the message on the system providing them with the earlier Agriculture that they did at the same time previous year and we will also give them a suggestion about who was the one among the other farmers who got the highest profit in their locality. Along with the top, we will also suggest what he did across his/her Agriculture process and what were the things he used for the success he/she got. We will provide all the information locality wise for better reach for each other as farmers in the same locality can reach out to each other and have a chat on how he/she got the success, even we cannot provide all the information of his/her because of privacy policies. But they all can chat to have a better understanding of the process he/she undergone to get the profit.

Aim and Objectives

A developing country undoubtedly needs healthy and sustainable food resources to meet the demand of ever-increasing population. However, many countries, such as Ethiopia, have no food resources, but no system to watch the condition before the damage to the people due to low reserves becomes very expensive to revert There are several advantages of having an effective process of idealizing the profit margin of every farmer, though it might cost the farmer a bit but will eventually result in a great profit. Besides, the studying of the data collected through a personally visiting leads to a better understanding of their farming process, which will come in handy when new farmer networks are being planned. We stumbled upon a low-cost solution for farmers condition while designing the project. We are developing a website which could be accessed from any device and the functionality of the website is to gather data and declare an ideal profit maker in their area. Similarly, all the data related to other farmers of the other areas would also get similar results

Motivation for the Work

We are Losing 25,000 to Hunger Every Day. Around 9 million individuals pass on each extended time of endlessly hunger- related diseases. This is more than from AIDS, intestinal sickness and tuberculosis joined. A child dies from hunger every 10 seconds, and 1 in 9 people go to bed hungry, we will suffer a global crisis of food scarcity by 2050, Not everyone can afford to keep food in the refrigerator but if we work today, we can change the tomorrow. We have seen that there are a lot of hunger deaths in the world and when we backtracked, we found that hunger deaths are caused because of food scarcity and food scarcity is there because of lees production and less production is because farmers are not doing farming and it is because they have less profit and it is because they are getting less profit and to boost it, we made this project.

Scope of Project

The usage of this system greatly reduces the pressure on the farmer regarding the agriculture system to choose among the various present out there.

Contribution

The major contributions are, The development of the profit finder system and suggestion system. In this system the ideal profit gainer will be analyzed using our own developed profit formula and the one with the highest value will be showcased to all others.

Organization of the report

The organization of the report is as follows: Chapter 2 presents the Literature Survey and a brief insight into related work. Chapter 3 is a technical chapter in which we have briefly discussed about the Design and Implementation. chapter 4 is the Result and Discussions chapter Finally in chapter 5 we present the conclusions.

Chapter 2

Literature Survey

Introduction

Our project is an application which acts as an Agriculture Guide giving out outputs to the user for every input given to the system. This System tries the user to gives a heads-up giving them the best suited profit making harvest .The User has options to select for the places he/she wants to do Agriculture for instance Mumbai, Hyderabad, Bengaluru, and so on; the system will ask whether he is searching for the current locality or some other place. We will provide them with the information about the top performers locality wise.

Existing System

In existing system all farmers work hard but not much smartly, They work the existing systems as sowing only one kind of the cops year after year with only few changes in the techniques. as sowing only particular type in the part of year even if there may be some other that can work for them. Currently many of the frames are using the very old but not much effective methods. The existing system also give limited information when there are a lot more to process for the filed they farm on and can be changed but few basic factors to bring out the best.

Need of New System

Currently farmers need some guidance regarding what they need at what time and how are they going to fetch the required details for the maximum profit for the harvest that the will get at the end. They need the guidance about what they can change in their farming style for better outputs for their effort. We cannot Guarantee the 100% Success rate but we rather can say we can boost some amount of output that are generated. The Crops are sorted and selected based on the top rankings by the user whose is suitable for the nature the locality for the harvest.

Problem Definition

The system is a Web Application that will act as an Agriculture Guide that will suggest users for every point by taking any input to the system thus the name “Agriculture GURU”. This System tries to give user the suggestion on the profitable crops for the season or time period. System is basically used to help a Farmer with new Agriculture approach towards better profit earning for them. This is done by suggesting the best profit earner in their locality. The Crops are sorted and selected based on the top rankings by the user. The User has options to select for the places he/she wants to do Agriculture for instance Mumbai, Hyderabad, Bengaluru, and so on; the system will ask whether he is searching for the current locality.

Chapter 3

Design and Implementation

Proposed System

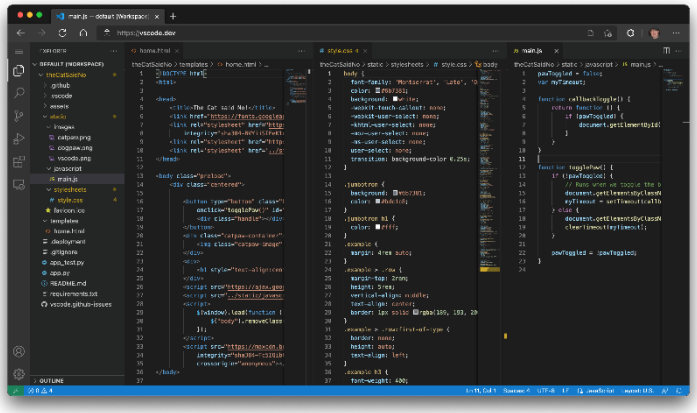
The proposed system acts by accepting the information about farming process from the farmers to help them. We accept the information provided about their crop along with the information of the other farmers in their locality and we analyse all the information provided by farmers in their locality for the starting first year and then we provide them with the best possible farming process year after year to bring the best for them and the society. Along with The information provided by the user after logging in is displayed and give access to edit or delete them. They get the live count how many users are present from which nationality and also can find how much was there expense for each kind of crop they have registered for

Requirement Gathering and Analysis

Software Requirement

• Visual Studio Code

Visual Studio Code, also commonly referred to as VS Code, is a source-code editor made by Microsoft for Windows, Linux and macOS. Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git. Users can change the theme, keyboard shortcuts, preferences, and install extensions that add additional functionality. In the Stack Overflow 2021 Developer Survey, Visual Studio Code was ranked the most popular developer environment tool, with 70% of 82,000 respondents reporting that they use it.



• Github

GitHub, Inc. is a provider of Internet hosting for software development and version control using Git. It offers the distributed version control and source code management (SCM) functionality of Git, plus its own features. It provides access control and several collaboration features such as bug tracking, feature requests, task management, continuous integration and wikis for every project. Headquartered in California, it has been a subsidiary of Microsoft since 2018. It is commonly used to host open-source projects. As of November 2021, GitHub reports having over 73 million developers and more than 200 million repositories (including at least 28 million public repositories). It is the largest source code host as of November 2021.

• XAMPP

XAMPP is a free and open-source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages. Since most actual web server deployments use the same components as XAMPP, it makes transitioning from a local test server to a live server possible. XAMPP's ease of deployment means a WAMP or LAMP stack can be installed quickly and simply on an operating system by a developer, with the advantage that common add-in applications such as WordPress and Joomla! can also be installed with similar ease using Bitnami.

Design

UML Diagrams

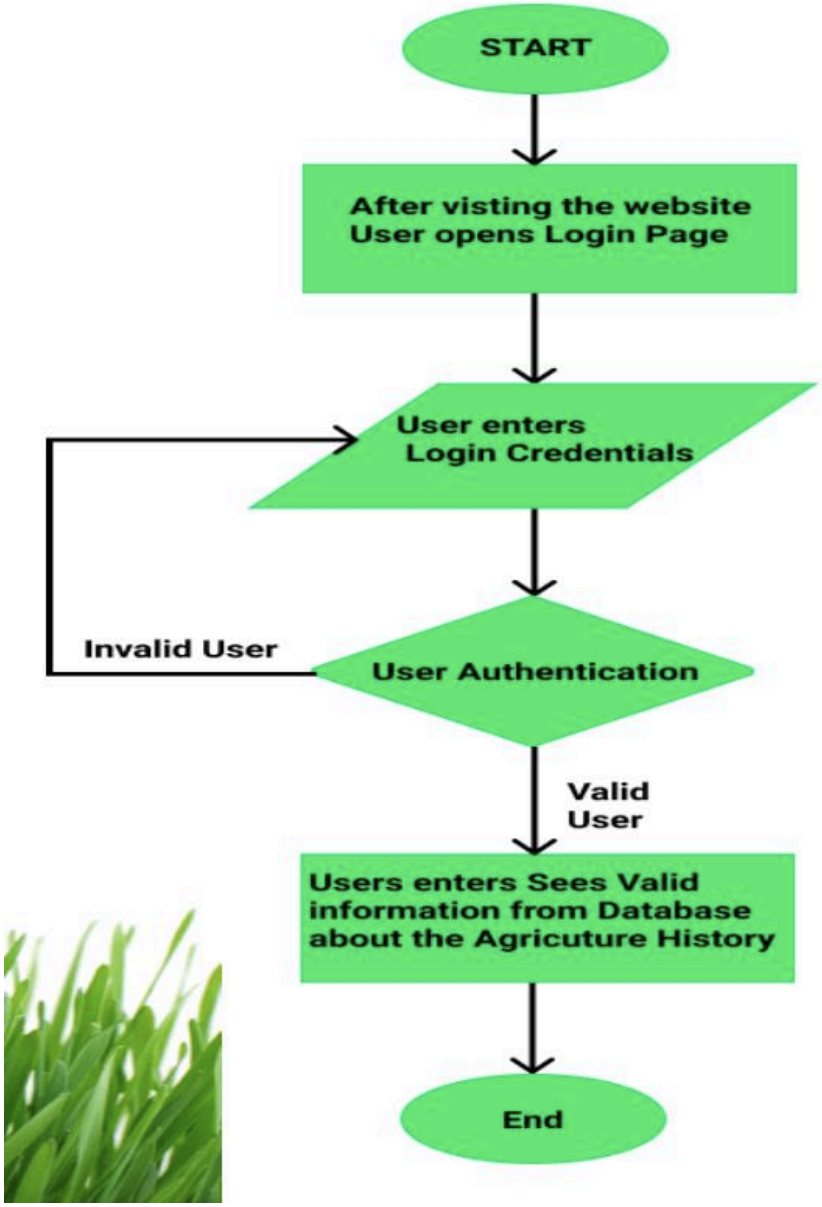


Figure 3.5: Flow Diagram

Algorithm

1 Farmers Login

2. Farmer fills Information about his farming techniques.

3. Farmer will be suggested on what is the best in his

locality

4. He logs out.

Chapter 4

Results and Discussion

Codes

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <script src="https://kit.fontawesome.com/f79e44daa6.js"
crossorigin="anonymous"></script>
    <title>Agriculture GURU</title>
    <link rel="stylesheet" href="index.css">
</head>
<body>



  <section class="showcase">
    <header>
      <h2 class="logo"><img src="img/logo/title nobg white.png" alt=""
width="30%"></h2>
      <div class="toggle"></div>
    </header>
    <video src="assam shot.mp4" muted loop autoplay></video>
    <div class="overlay"></div>
    <div class="text">
        <br>
        <br>
```

```
      <h2>Agriculture</h2>
      <h3>GURU</h3>
      <p>We accept the information about your farming process to help you. We
accept the information provided your crop along with the information of the other
farmers in your locality ans we analyse all the information provided by farmers in
your locality for the first year and then we will provide you with the best possible
farming process year after year to bring the best for you and the society. <br><br>
        Towards better future together.</p>
      <a href="login.html">Sign Up</a>
    </div>
    <ul class="social">
      <li><a href="#"><img src="https://i.ibb.co/x7P24fL/facebook.png"></a></li>
      <li><a href="#"><img src="https://i.ibb.co/Wnxq2Nq/twitter.png"></a></li>
      <li><a href="#"><img src="https://i.ibb.co/ySwtH4B/instagram.png"></a></li>
    </ul>




</section>

  <div class="menu">
    <ul>
      <li><a href="index.html">Home</a></li>
      <li><a href="gallery.html">Gallery</a></li>
      <li><a href="login.html">Sign Up</a></li>
      <li><a href="contact.html">Contact</a></li>
      <li><a href="thankyou.html">Thankyou Farmers</a></li>
      <li><a href="afterlogin.html">HR</a></li>
    </ul>
  </div>


<script src="index.js"></script>
</body>
</html>
```

Index.css

```
@import
url('https://fonts.googleapis.com/css?family=Poppins:200,300,400,500,600,700,8
00,900&display=swap');
*
{
  margin: 0;
  padding: 0;
  box-sizing: border-box;
  font-family: 'Poppins', sans-serif;
}
header
{
  position: absolute;
  top: 0;
  left: 0;
  width: 100%;
  padding: 40px 100px;
  z-index: 1000;
  display: flex;
  justify-content: space-between;
  align-items: center;
}
header .logo
{
  color: #fff;
  text-transform: uppercase;
  cursor: pointer;
}
.toggle
{
  position: relative;
  width: 60px;









 height: 60px;
  background: url(https://i.ibb.co/HrfVRcx/menu.png);
  background-repeat: no-repeat;
```

```
  background-size: 30px;
  background-position: center;
  cursor: pointer;
}
.toggle.active
{
  background: url(https://i.ibb.co/rt3HybH/close.png);
  background-repeat: no-repeat;
  background-size: 25px;
  background-position: center;
  cursor: pointer;
}
.showcase
{
  position: absolute;
  right: 0;
  width: 100%;
  min-height: 100vh;
  padding: 100px;
  display: flex;
  justify-content: space-between;
  align-items: center;
  background: #111;
  transition: 0.5s;
  z-index: 2;
}
.showcase.active
{
  right: 300px;
}

.showcase video
{
  position: absolute;
  top: 0;
  left: 0;
  width: 100%;
  height: 100%;
  object-fit: cover;
  opacity: 0.8;
}
.overlay
```

```
{
  position: absolute;
  top: 0;
  left: 0;
  width: 100%;
  height: 100%;
  background: #03a9f4;
  mix-blend-mode: overlay;
}
```

```
.text
{
  position: relative;
  z-index: 10;
}

.text h2
{
  font-size: 5em;
  font-weight: 800;
  color: #fff;
  line-height: 1em;
  text-transform: uppercase;
}
.text h3
{
  font-size: 4em;
  font-weight: 700;
  color: #fff;
  line-height: 1em;
  text-transform: uppercase;
}
.text p
{
  font-size: 1.1em;
  color: #fff;
```

```
  margin: 20px 0;
  font-weight: 300;
  max-width: 700px;
}
.text a
{
  display: inline-block;
  font-size: 1em;
  background: #fff;
  padding: 10px 30px;
  text-transform: uppercase;
  text-decoration: none;
  font-weight: 500;
  margin-top: 10px;
  color: #111;
  letter-spacing: 2px;
  transition: 0.2s;
}
.text a:hover
{
  letter-spacing: 6px;
}
```

```
.social
{
  position: absolute;
  z-index: 10;
  bottom: 20px;
  display: flex;
  justify-content: center;
  align-items: center;
}
```

```
.social li
{
  list-style: none;
}
.social li a
{
  display: inline-block;
  margin-right: 20px;
  filter: invert(1);
  transform: scale(0.5);
  transition: 0.5s;
}
.social li a:hover
{
  transform: scale(0.5) translateY(-15px);
}
.menu
{
  position: absolute;
  top: 0;
  right: 0;
  width: 300px;
  height: 100%;
  display: flex;
  justify-content: center;
  align-items: center;
}
.menu ul
{
  position: relative;
}
.menu ul li
{
  list-style: none;
}
.menu ul li a
{
  text-decoration: none;
  font-size: 24px;
  color: #111;
}
```

```
.menu ul li a:hover
{
  color: #03a9f4;
}

@media (max-width: 991px)
{
  .showcase,
  .showcase header
  {
    padding: 40px;
  }
  .text h2
  {
    font-size: 3em;
  }
  .text h3
  {
    font-size: 2em;
  }
}
```

Login.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
    <script src="https://kit.fontawesome.com/f79e44daa6.js"
crossorigin="anonymous"></script>
    <title>Agriculture GURU</title>
    <link rel="stylesheet" href="login.css">

</head>
<body>


    <div class="container">
        <div class="forms-container">
          <div class="signin-signup">
            <form action="" method="post" class="sign-in-form">
              <h2 class="title">Sign in</h2>
              <div class="input-field">
                <i class="fas fa-user"></i>
                <input type="text" name="user" placeholder="Username" />
              </div>
              <div class="input-field">
                <i class="fas fa-lock"></i>
                <input type="password" name="password" placeholder="Password" />
              </div>









 <input type="submit" value="Login" class="btn solid"/>

              <p class="social-text">Back to main page</p>
              <div class="social-media">
                <a href="index.html" class="social-icon">
                  <i class="far fa-arrow-alt-circle-left"></i>
                </a>
              </div>
            </form>
```

```
    <form action="" method="post" class="sign-up-form">
      <h2 class="title">Sign up</h2>
      <div class="input-field">
        <i class="fas fa-user"></i>
        <input type="text" name="user" placeholder="Username" />
      </div>
      <div class="input-field">
        <i class="fas fa-envelope"></i>
        <input type="email" name="email" placeholder="Email" />
      </div>
        <div class="input-field">
        <i class="fas fa-mobile"></i>
        <input type="tel" name="number" placeholder="Mobile Number" />
      </div>
      <div class="input-field">
        <i class="fas fa-lock"></i>
        <input type="password" name="password" placeholder="Password" />
      </div>
      <input type="submit" class="btn" value="Sign up" />

      <p class="social-text">Back to main page</p>
      <div class="social-media">
        <a href="index.html" class="social-icon">
          <i class="far fa-arrow-alt-circle-left"></i>
        </a>
      </div>
    </form>
  </div>
</div>

<div class="panels-container">
  <div class="panel left-panel">
    <div class="content">
      <h3>New here ?</h3>
      <p>
        Are you new here, want to join with us in the noble cause for farmers.
```

```
  </p>
            <button class="btn transparent" id="sign-up-btn">
              Sign up
            </button>
          </div>
          <img src="img/main1 1.svg" class="image" alt="" />
        </div>

        <div class="panel right-panel">
          <div class="content">
            <h3>One of us ?</h3>
            <p>
              Nice to see you, login and seize the future.
            </p>
            <button class="btn transparent" id="sign-in-btn">
              Sign in
            </button>
          </div>
          <img src="img/main2.svg" class="image" alt="" />
        </div>
      </div>
    </div>



<script src="login.js"></script>
</body>
</html>

Login.css
@import
url("https://fonts.googleapis.com/css2?family=Poppins:wght@200;300;400;500;600;700;800&display=swap");

* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
```

```
}

body,
input {
  font-family: "Poppins", sans-serif;
}



.container {
  position: fixed;
  width: 100%;
  background-color: #fff;
  min-height: 100vh;
  overflow: hidden;
}









.forms-container {
  position: absolute;
  width: 100%;
  height: 100%;
  top: 0;
  left: 0;
}

.signin-signup {
  position: absolute;
  top: 50%;
  transform: translate(-50%, -50%);
  left: 75%;
  width: 50%;
  transition: 1s 0.7s ease-in-out;
  display: grid;
  grid-template-columns: 1fr;
  z-index: 5;
}
```

```
form {
  display: flex;
  align-items: center;
  justify-content: center;
  flex-direction: column;
  padding: 0rem 5rem;
  transition: all 0.2s 0.7s;
  overflow: hidden;
  grid-column: 1 / 2;
  grid-row: 1 / 2;
}

form.sign-up-form {
  opacity: 0;
  z-index: 1;
}

form.sign-in-form {
  z-index: 2;
}

.title {
  font-size: 2.2rem;
  color: #444;
  margin-bottom: 10px;
}

.input-field {
  max-width: 380px;
  width: 100%;
  background-color: #f0f0f0;
  margin: 10px 0;
  height: 55px;




border-radius: 55px;
```

```
  display: grid;
  grid-template-columns: 15% 85%;
  padding: 0 0.4rem;
  position: relative;
}

.input-field i {
  text-align: center;
  line-height: 55px;
  color: #acacac;
  transition: 0.5s;
  font-size: 1.1rem;
}

.input-field input {
  background: none;
  outline: none;
  border: none;
  line-height: 1;
  font-weight: 600;
  font-size: 1.1rem;
  color: #333;
}

.input-field input::placeholder {
  color: #aaa;
  font-weight: 500;
}

.social-text {
  padding: 0.7rem 0;
  font-size: 1rem;
}

.social-media {
  display: flex;
  justify-content: center;
}

.social-icon {
  height: 46px;
  width: 46px;
```

```
  display: flex;
  justify-content: center;
  align-items: center;
  margin: 0 0.45rem;
  color: #333;
  border-radius: 50%;
  border: 1px solid #333;
  text-decoration: none;
  font-size: 1.1rem;
  transition: 0.3s;
}




.social-icon:hover {
  color: #4481eb;
  border-color: #4481eb;
}

.btn {
  width: 150px;
  background-color: #00BFA6;
  border: none;
  outline: none;
  height: 49px;
  border-radius: 49px;
  color: #fff;
  text-transform: uppercase;
  font-weight: 600;
  margin: 10px 0;
  cursor: pointer;
  transition: 0.5s;
}

.btn:hover {
  background-color: #00BFA6;
}
.panels-container {
  position: absolute;
```

```
  height: 100%;
  width: 100%;
  top: 0;
  left: 0;
  display: grid;
  grid-template-columns: repeat(2, 1fr);
}

.container:before {
  content: "";
  position: absolute;
  height: 2000px;
  width: 2000px;
  top: -10%;
  right: 48%;
  transform: translateY(-50%);
  background-image: linear-gradient(-45deg, #BF8C00 0%, #00BFA6 100%);
  transition: 1.8s ease-in-out;
  border-radius: 50%;
  z-index: 6;
}

.image {
  width: 100%;
  transition: transform 1.1s ease-in-out;
  transition-delay: 0.4s;
}




.panel {
  display: flex;
  flex-direction: column;
  align-items: flex-end;
  justify-content: space-around;
  text-align: center;
  z-index: 6;
```

```
}

.left-panel {
  pointer-events: all;
  padding: 3rem 17% 2rem 12%;
}

.right-panel {
  pointer-events: none;
  padding: 3rem 12% 2rem 17%;
}

.panel .content {
  color: #fff;
  transition: transform 0.9s ease-in-out;
  transition-delay: 0.6s;
}

.panel h3 {
  font-weight: 600;
  line-height: 1;
  font-size: 1.5rem;
}

.panel p {
  font-size: 0.95rem;
  padding: 0.7rem 0;
}

.btn.transparent {
  margin: 0;
  background: none;
  border: 2px solid #fff;
  width: 130px;
  height: 41px;
  font-weight: 600;
  font-size: 0.8rem;
}

.right-panel .image,
.right-panel .content {
  transform: translateX(800px);
```

```
}

/* ANIMATION */




.container.sign-up-mode:before {
  transform: translate(100%, -50%);
  right: 52%;
}

.container.sign-up-mode .left-panel .image,
.container.sign-up-mode .left-panel .content {
  transform: translateX(-800px);
}

.container.sign-up-mode .signin-signup {
  left: 25%;
}

.container.sign-up-mode form.sign-up-form {
  opacity: 1;
  z-index: 2;
}

.container.sign-up-mode form.sign-in-form {
  opacity: 0;
  z-index: 1;
}

.container.sign-up-mode .right-panel .image,
.container.sign-up-mode .right-panel .content {
  transform: translateX(0%);
}

.container.sign-up-mode .left-panel {
  pointer-events: none;
```

```
}

.container.sign-up-mode .right-panel {
  pointer-events: all;
}

@media (max-width: 870px) {
  .container {
    min-height: 800px;
    height: 100vh;
  }
  .signin-signup {
    width: 100%;
    top: 95%;
    transform: translate(-50%, -100%);
    transition: 1s 0.8s ease-in-out;
  }









  .signin-signup,
  .container.sign-up-mode .signin-signup {
    left: 50%;
  }

  .panels-container {
    grid-template-columns: 1fr;
    grid-template-rows: 1fr 2fr 1fr;
  }

  .panel {
    flex-direction: row;
    justify-content: space-around;
```

```
  align-items: center;
  padding: 2.5rem 8%;
  grid-column: 1 / 2;
}

.right-panel {
  grid-row: 3 / 4;
}

.left-panel {
  grid-row: 1 / 2;
}

.image {
  width: 200px;
  transition: transform 0.9s ease-in-out;
  transition-delay: 0.6s;
}

.panel .content {
  padding-right: 15%;
  transition: transform 0.9s ease-in-out;
  transition-delay: 0.8s;
}

.panel h3 {
  font-size: 1.2rem;
}

.panel p {
  font-size: 0.7rem;
  padding: 0.5rem 0;
}

.btn.transparent {
  width: 110px;
  height: 35px;
  font-size: 0.7rem;
}
```

```
.container:before {
    width: 1500px;
    height: 1500px;
    transform: translateX(-50%);
    left: 30%;
    bottom: 68%;
    right: initial;
    top: initial;
    transition: 2s ease-in-out;
  }

  .container.sign-up-mode:before {
    transform: translate(-50%, 100%);
    bottom: 32%;
    right: initial;
  }

  .container.sign-up-mode .left-panel .image,
  .container.sign-up-mode .left-panel .content {
    transform: translateY(-300px);
  }

  .container.sign-up-mode .right-panel .image,
  .container.sign-up-mode .right-panel .content {
    transform: translateY(0px);
  }

  .right-panel .image,
  .right-panel .content {
    transform: translateY(300px);
  }

  .container.sign-up-mode .signin-signup {
    top: 5%;
    transform: translate(-50%, 0);
  }
}
```

```
@media (max-width: 570px) {
  form {
    padding: 0 1.5rem;
  }

  .image {
    display: none;
  }
  .panel .content {
    padding: 0.5rem 1rem;
  }
```

```
.container {
    padding: 1.5rem;
  }

  .container:before {
    bottom: 72%;
    left: 50%;
  }

  .container.sign-up-mode:before {
    bottom: 28%;
    left: 50%;
  }
}
```

Contact.html

```
<!DOCTYPE html>
<html lang="en">
```

```
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <script src="https://kit.fontawesome.com/f79e44daa6.js"
crossorigin="anonymous"></script>
    <title>Agriculture GURU</title>
  <link rel="stylesheet" href="contact.css">
</head>
<body>



    <!--Contact form-->
<section id="contact">
    <div class="container">
    <div class="contact-box">
      <div class="left"></div>
      <div id="contact-form" class="right">
        <h2>Contact Us</h2>

        <form method="post">
        <input type="text" class="field" placeholder="Your Name" name="name"
required>
        <input type="text" class="field" placeholder="Your Email" name="email"
required>
        <input type="text" class="field" placeholder="Phone" name="number"
required>
        <textarea placeholder="Message" class="field" name="message"
required></textarea>
        <input type="submit" class="btn" name="submit" value="Send"/>
        </form>

      </div>
    </div>
  </div>

</section>
<!--end Contact form end-->
```

```
<p class="social-text">
  Back to main page
</p>
            <div class="social-media">
              <a href="index.html" class="social-icon">
                <i class="far fa-arrow-alt-circle-left fa-2x"></i>
              </a>
            </div>




<!--footer-->
<section class="footer">
    <p>© Agriculture GURU <br> Designed and Develpoed by Group 8</p>
</section>
<!--end of footer-->




<!--JS filse-->
<script src="index.js"></script>
</body>
</html>

Contact.css
* {
    box-sizing: border-box;
    padding: 0;
    margin: 0;
  }

  body {
    font-family: 'Josefin Sans', sans-serif;
  }
```

```
/* contact us*/


.container{
    position: relative;
    width: 100%;
    height: 100%;
    display: flex;
    justify-content: center;
    align-items: center;
    padding: 20px 100px;
}







.container:after{
    content: '';
    position: absolute;
    width: 100%;
    height: 100%;
    left: 0;
    top: 0;
    background: url("img/Agriculture welcome/img 6.jpg") no-repeat center;
    background-size: cover;
    filter: blur(50px);
    z-index: -1;
}
.contact-box{
    max-width: 850px;
    display: grid;
    grid-template-columns: repeat(2, 1fr);
    justify-content: center;
    align-items: center;
    text-align: center;
    background-color: #fff;
```

```
    box-shadow: 0px 0px 19px 5px rgba(0,0,0,0.19);
}

.left{
    background: url("img/Agriculture welcome/img 6.jpg") no-repeat center;
    background-size: cover;
    height: 100%;
}

.right{
    padding: 25px 40px;
}

#contact h2{
    position: relative;
    padding: 0 0 10px;
    margin-bottom: 10px;
}

#contact h2:after{
    content: '';
    position: absolute;
    left: 50%;
    bottom: 0;
    transform: translateX(-50%);
    height: 4px;
    width: 50px;
    border-radius: 2px;
    background-color: #2ecc71;
}

.field{
    width: 100%;
    border: 2px solid rgba(0, 0, 0, 0);
```

```
    outline: none;
    background-color: rgba(230, 230, 230, 0.6);
    padding: 0.5rem 1rem;
    font-size: 1.1rem;
    margin-bottom: 22px;
    transition: .3s;
}

.field:hover{
    background-color: rgba(0, 0, 0, 0.1);
}

textarea{
    min-height: 150px;
}

.btn{
    width: 100%;
    padding: 0.5rem 1rem;
    background-color: #2ecc71;
    color: #fff;
    font-size: 1.1rem;
    border: none;
    outline: none;
    cursor: pointer;
    transition: .3s;
}

.btn:hover{
    background-color: #27ae60;
}

.field:focus{
    border: 2px solid rgba(30,85,250,0.47);
    background-color: #fff;
}

@media screen and (max-width: 880px){
    .contact-box{
        grid-template-columns: 1fr;
    }
    .left{
```

```
        height: 200px;
    }
}



.social-text {
    padding: 0.7rem 0;
    font-size: 1rem;
    text-align: center;
  }

  .social-media {
    display: flex;
    justify-content: center;
  }

/* footer*/
.footer{
    position: fixed;
   padding: 1%;
    left: 0;
    bottom: 0;
    width: 100%;
    text-align: center;
    justify-content: center;
    background: rgb(0,195,255);
    background: linear-gradient(90deg, rgba(0,195,255,1) 0%, rgba(0,119,255,1)
100%);
    color: #ffffff;
    font-size: 20px;
}
```

Thankyou.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="thankyou.css">
    <script src="https://kit.fontawesome.com/f79e44daa6.js"
crossorigin="anonymous"></script>
    <title>Document</title>
</head>
<body>
    <div class="hero">
        <h1>Thankyou Farmers<span>- Agriculture GURU -</span></h1>


        <p class="social-text">Back to main page</p>
            <div class="social-media">
              <a href="index.html" class="social-icon">
                <i class="far fa-arrow-alt-circle-left"></i>
              </a>
    </div>
</body>
</html>
```

Thankyou.css

```
@import url(https://fonts.googleapis.com/css?family=Open+Sans:600,300);
* {
    margin: 0;
    padding: 0;
}
.hero {
    height: 100vh;
    background: linear-gradient(45deg, rgba(255,175,189,.7), rgba(100,216,243,.7),
rgba(234,236,198,.7), rgba(245,146,176,.7), rgba(52,219,216,.7)) 0 0 / 1000% no-
repeat, url(https://images.pexels.com/photos/321542/pexels-photo-
321542.jpeg?cs=srgb&dl=pexels-oleksandr-pidvalnyi-321542.jpg&fm=jpg) 0 0 /
cover no-repeat;
    -webkit-animation: gradientAnimation 40s ease infinite;
    animation: gradientAnimation 40s ease infinite;
}
```

```
@-webkit-keyframes gradientAnimation {
    0%   { background-position: 0% 30%, 0 0;}
    50%  { background-position: 100% 70%, 0 0;}
    100% { background-position: 0% 30%, 0 0;}
}
@keyframes gradientAnimation {
    0%   { background-position: 0% 30%, 0 0;}
    50%  { background-position: 100% 70%, 0 0;}
    100% { background-position: 0% 30%, 0 0;}
}
h1 {
    position: absolute;
    top: 50%;
    left: 50%;
    -webkit-transform: translate(-50%, -50%);
    transform: translate(-50%, -50%);
    color: #fff;
    font : normal 600 72px/1 'Open Sans', sans-serif;
    text-align: center;
    white-space: nowrap;
}
h1 span {
    display: block;
    margin-top: 1em;
    font-size: 40px;
    font-weight: 300;
}

.social-text{
    position: absolute;
    top: 70%;
    left: 50%;
    -webkit-transform: translate(-50%, -50%);
    transform: translate(-50%, -50%);
    color: #fff;
    text-align: center;
    white-space: nowrap;
}
```

Software Results

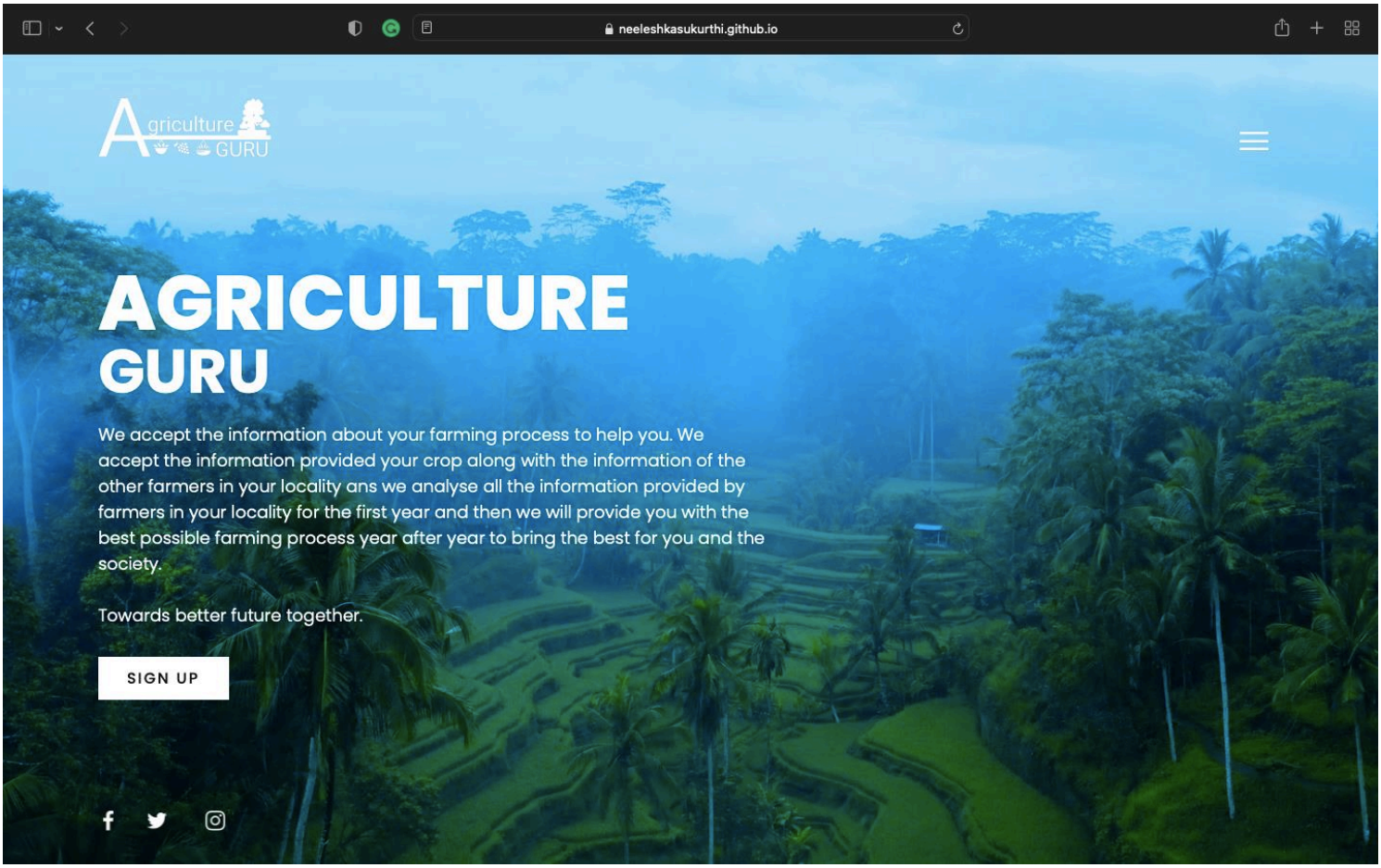


Figure 4.1: The Welcome page

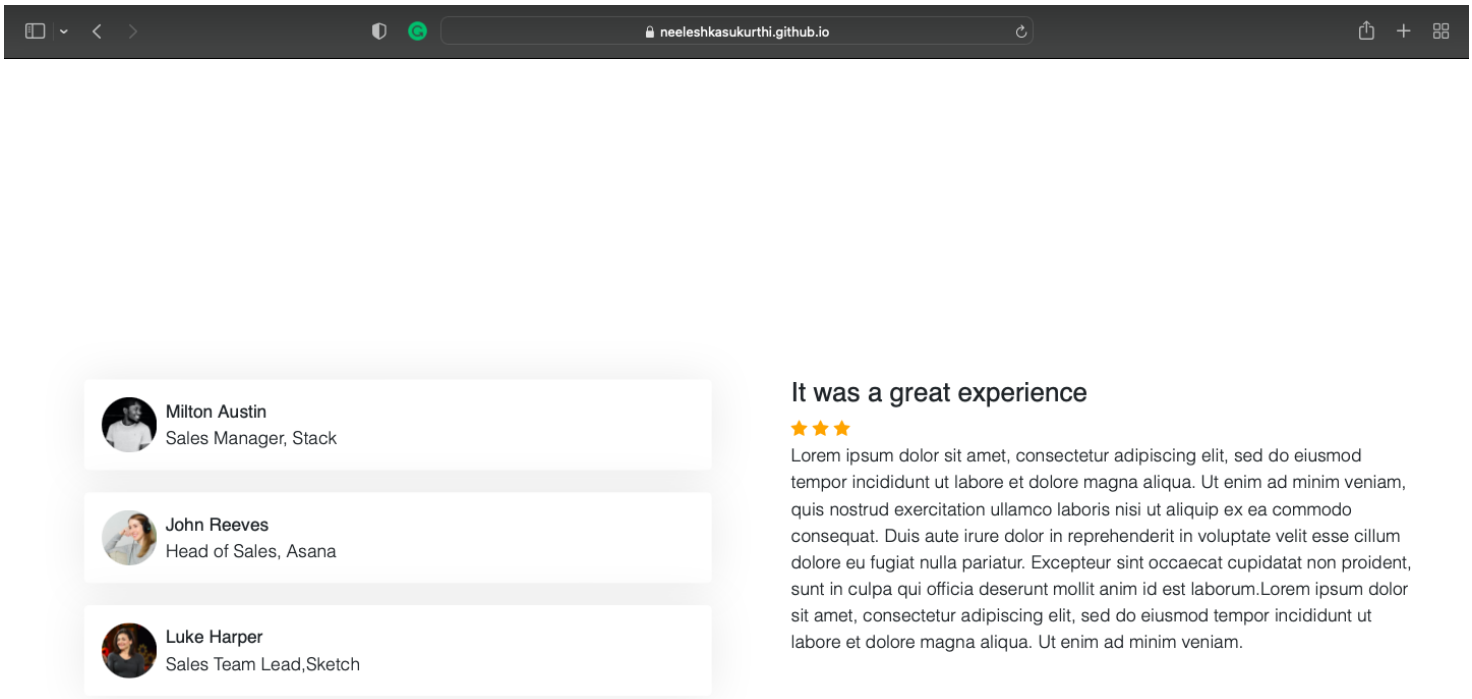


Figure 4.2: Review Page

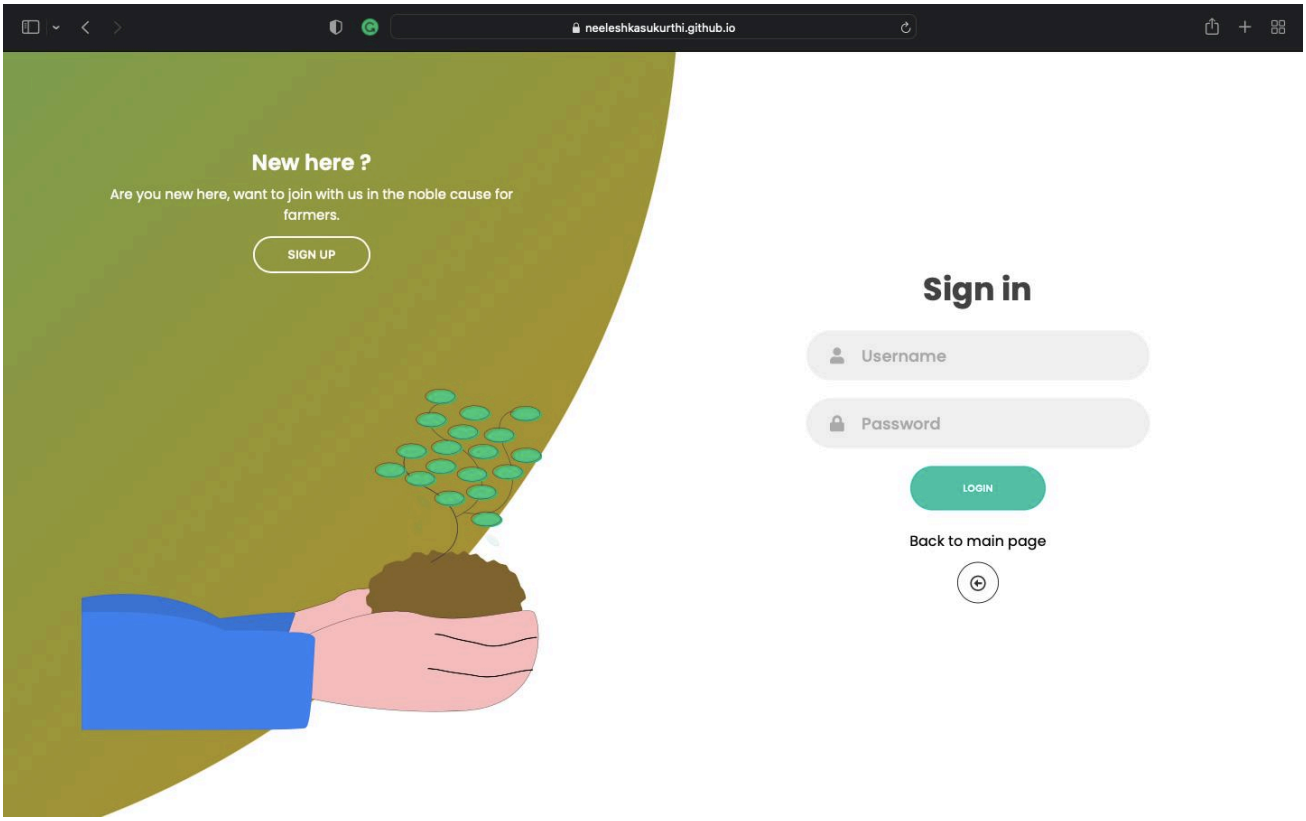


Figure 4.3 Sign in page

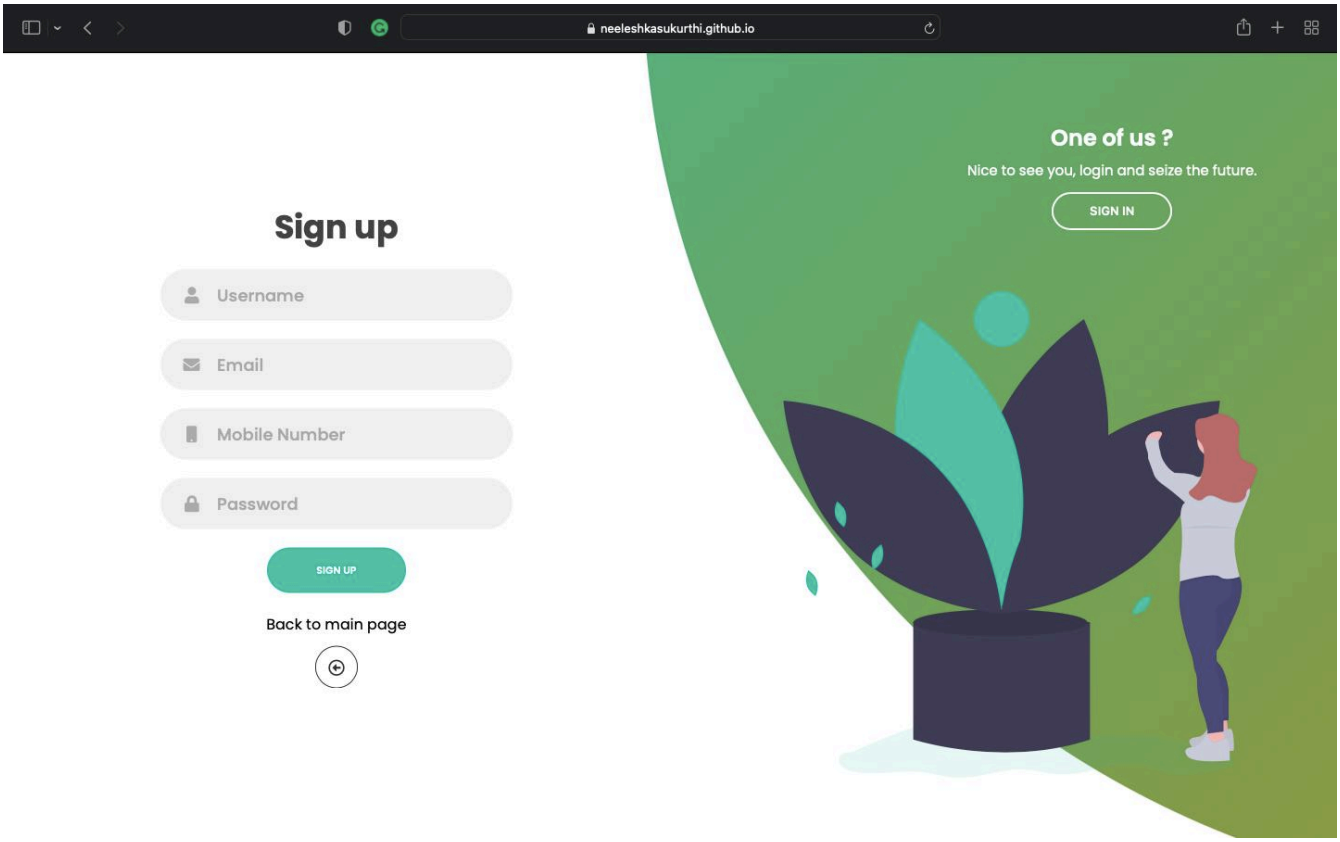


Figure 4.3 Sign up page

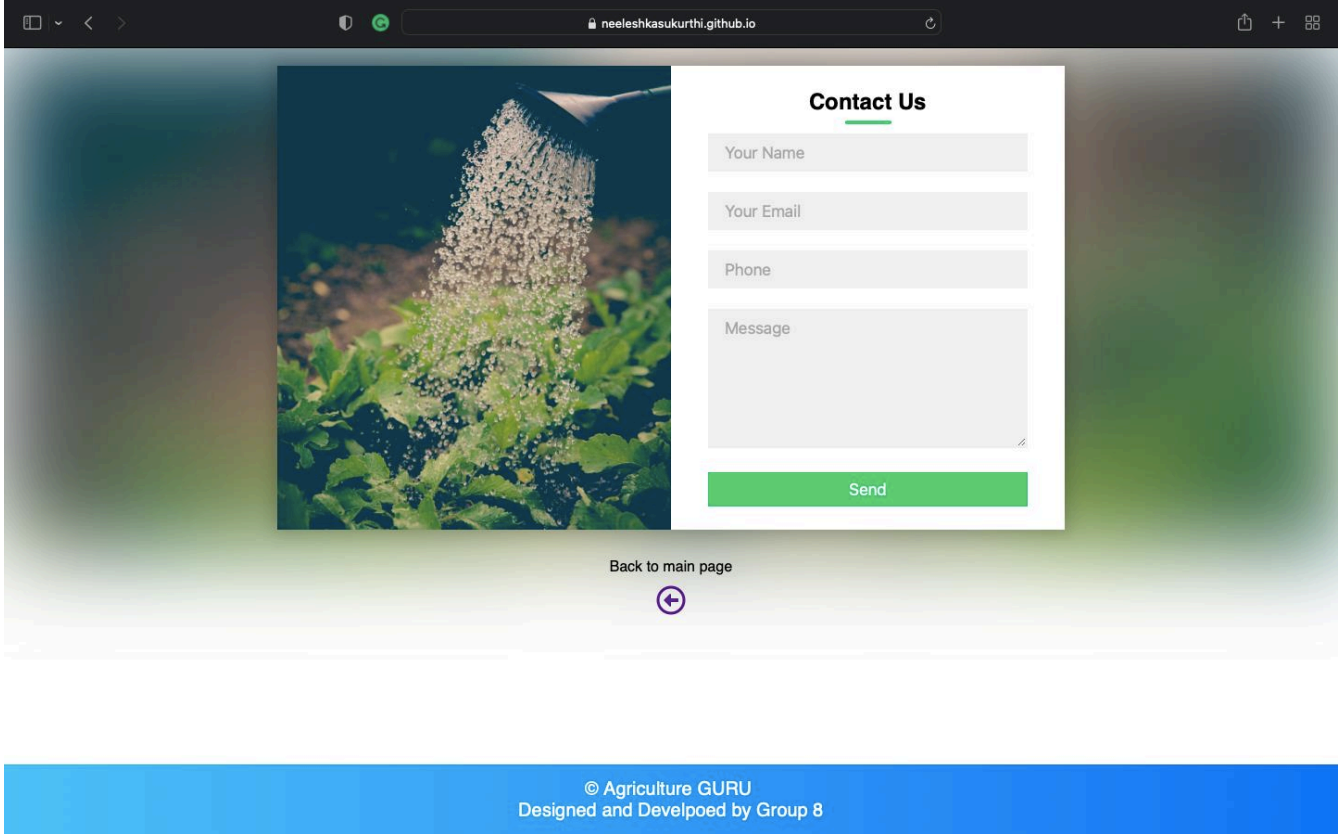


Figure 4.5: Contact us page

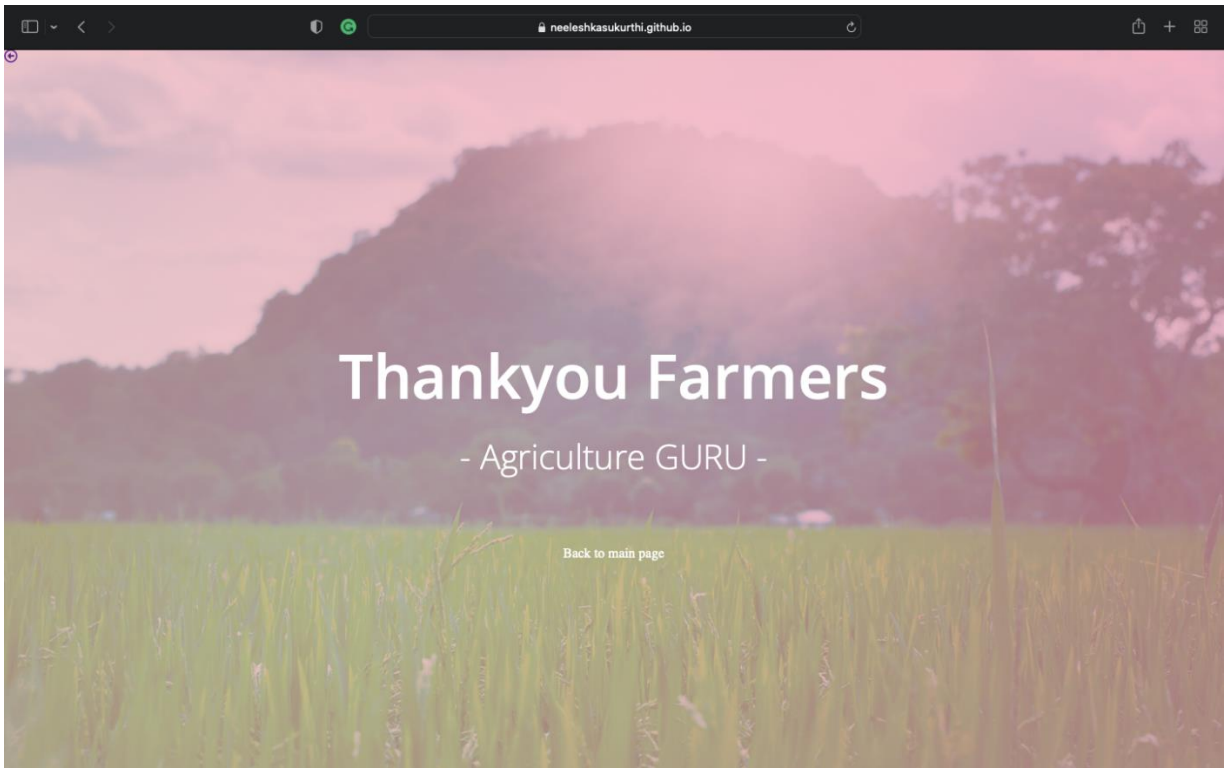


Figure 4.6: Thankyou page

Screen Shots

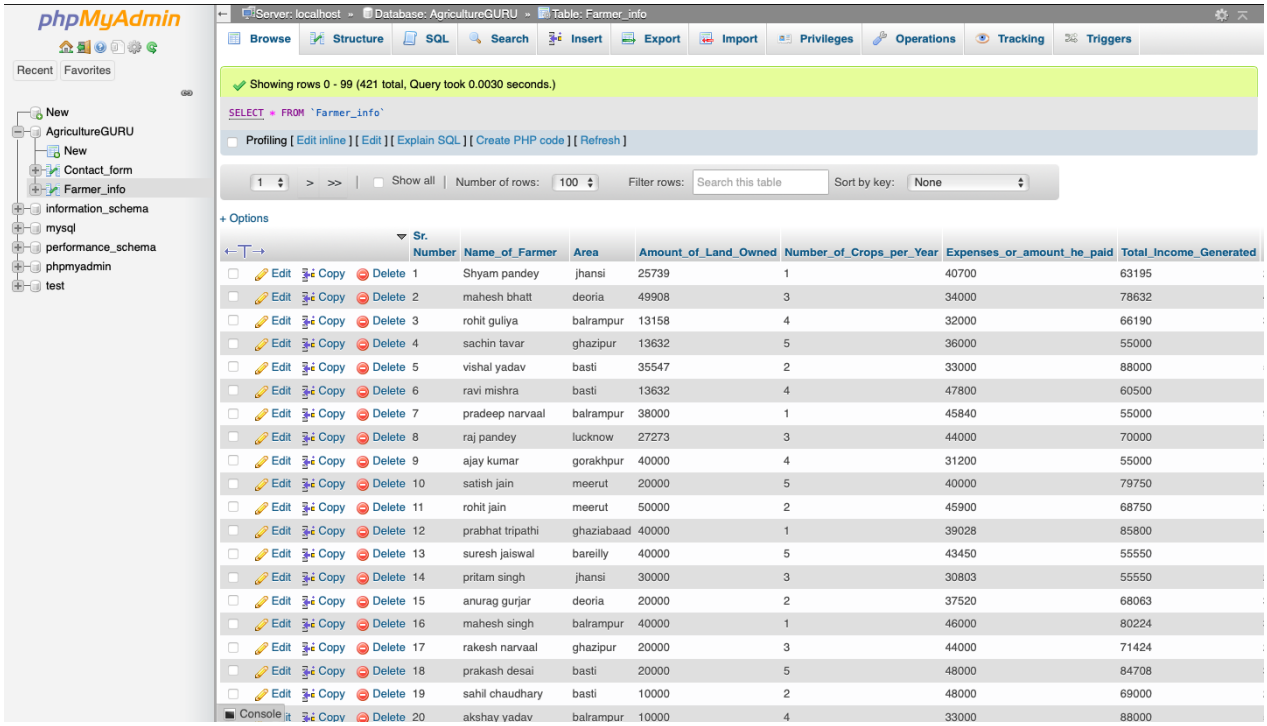


Figure 4.7: Database Query commands

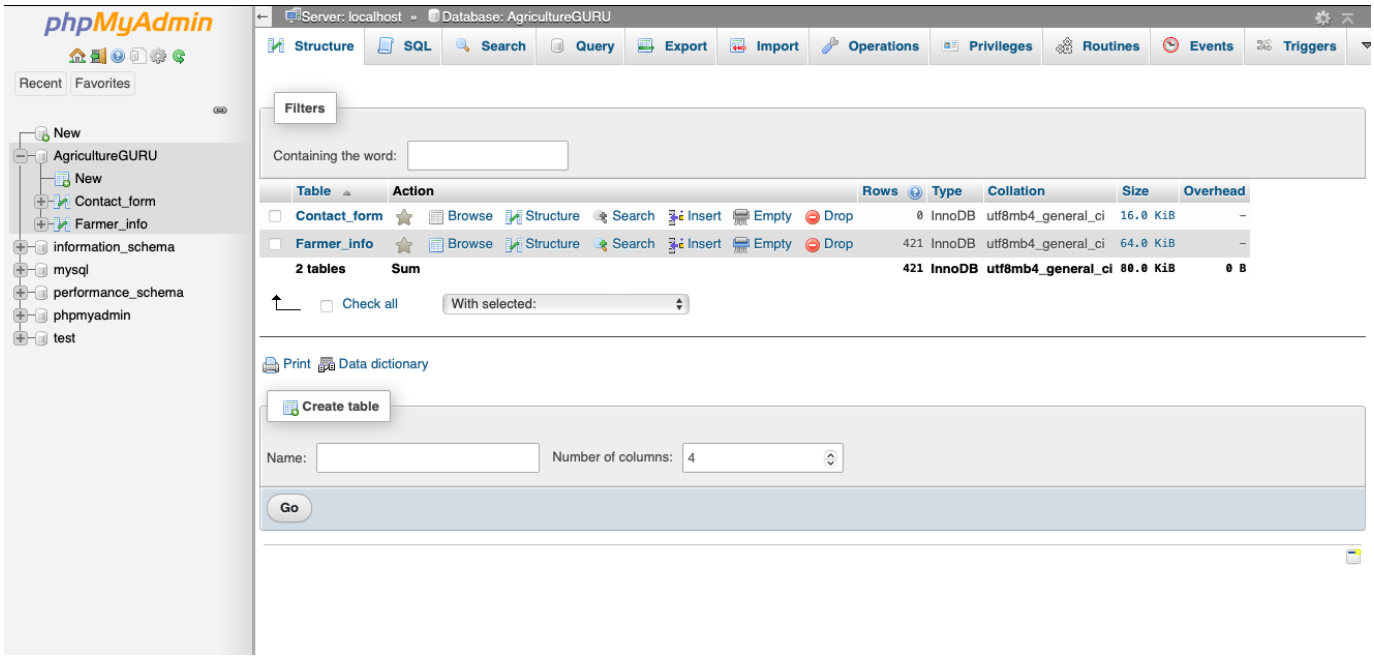


Figure 4.7: Farmers information database

Testing Results

Software testing methods are traditionally divided into black box testing and white box testing. These two approaches are used to describe the point of view that a test engineer

takes when designing test cases.

Table 4.1: Testing Results

Id	**Description**	**Expected Output**	**Actual Op-output**
TR-101	Testing of Query-1	Calculate profit	Calculated the profit
TR-102	Testing of Query -2	Calculate Ideal Profit	Calculate Ideal Profit
TR-103	Testing of Query -3	Calculate Rank	Calculate Rank

Chapter 5

Conclusion

Summary

The most useful feature of this project is that it takes into consideration that each and every farmer must get benefit or greater profit. There has been a 80% of accuracy in the project as we have tested and done some trial runs at very small scale. The margin for profit might not be great for all but for those in losses it's a perfect place to start on working towards making capital and use it further.

Future Scope

In future we propose to do more experiments with variety of the scenario. We can e-commerce the findings on which kind of pesticide is to be used and we can make an ecommerce site for this where we will sell this farming items at the similar manner.

References

1. A Survey on Smart Agriculture: Development Modes, Technologies, and Security and Privacy Challenges https:// ieeexplore.ieee.org/abstract/ document/9269526

2. The Agriculture filed experiment. A statical examination of theory and practice. https://www.cabdirect.org/ cabdirect/abstract/19830750380

3. JARQ : Japan Agricultural Research Quarterly https://www.jircas.go.jp/en/publication/list/jarq

Publications

Paper Published

e-ISSN: 2395-0056 p-ISSN: 2395-0072

International Research Journal of Engineering and Technology (IRJET)

(An ISO 9001 : 2008 Certified Journal)

Is hereby awarding this certificate to

Raj Tiwari

In recognition the publication of the manuscript entitled

Agriculture GURU

published in our Journal Volume 9 Issue 3 March 2022

Editor in Chief

E-mail : editor@irjet.net

Impact Factor : 7.529

www.irjet.net

e-ISSN: 2395-0056 p-ISSN: 2395-0072

International Research Journal of Engineering and Technology (IRJET)

(An ISO 9001 : 2008 Certified Journal)

Is hereby awarding this certificate to

Neelesh Kasukurthi

In recognition the publication of the manuscript entitled

Agriculture GURU

published in our Journal Volume 9 Issue 3 March 2022

Impact Factor : 7.529

www.irjet.net

Editor in Chief

E-mail : editor@irjet.net

e-ISSN: 2395-0056 p-ISSN: 2395-0072

International Research Journal of Engineering and Technology (IRJET)

(An ISO 9001 : 2008 Certified Journal)

Is hereby awarding this certificate to

Jimit Bhatt

In recognition the publication of the manuscript entitled

Agriculture GURU

published in our Journal Volume 9 Issue 3 March 2022

Editor in Chief

E-mail : editor@irjet.net

Impact Factor : 7.529

www.irjet.net

Vasantdada Patil Pratishthan's College of
Engineering & Visual Arts, Mumbai-22
Department of Computer Engineering
National Level Tech Fest

TANTRA 2022

Certificate of Appreciation

This certificate is awarded to NEELESH KASUKURTHI
as the winner of PROJECT COMPETITION
event in NATIONAL LEVEL Techfest TANTRA 2022 held on 13th April 2022.

Prof. Vinod Alone	Dr. Mahavir Devmane	Prof.Prachi Godbole	Dr. Alam N. Shaikh
CONVENER CESA TANTRA	HOD COMPUTER ENGINEERING	VICE-PRINCIPAL	PRINCIPAL AND CAMPUS DIRECTOR

Vasantdada Patil Pratishthan's College of
Engineering & Visual Arts, Mumbai-22
Department of Computer Engineering
National Level Tech Fest

TANTRA 2022

Certificate of Appreciation

This certificate is awarded to JIMIT BHATT
as the winner of PROJECT COMPETITION.
event in NATIONAL LEVEL Techfest TANTRA 2022 held on 13th April 2022.

Prof. Vinod Alone	Dr. Mahavir Devmane	Prof.Prachi Godbole	Dr. Alam N. Shaikh
CONVENER CESA TANTRA	HOD COMPUTER ENGINEERING	VICE-PRINCIPAL	PRINCIPAL AND CAMPUS DIRECTOR

Vasantdada Patil Pratishthan's College of
Engineering & Visual Arts, Mumbai-22

Department of Computer Engineering

National Level Tech Fest

TANTRA 2022

Certificate of Appreciation

This certificate is awarded to RAJ TIWARI

as the winner of PROJECT COMPETITION.

event in NATIONAL LEVEL Techfest TANTRA 2022 held on 13th April 2022.

Prof. Vinod Alone	Dr. Mahavir Devmane	Prof.Prachi Godbole	Dr. Alam N. Shaikh
CONVENER CESA TANTRA	HOD COMPUTER ENGINEERING	VICE-PRINCIPAL	PRINCIPAL AND CAMPUS DIRECTOR

International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056
Volume: 09 Issue: 03 | Mar 2022 www.irjet.net p-ISSN: 2395-0072

Agriculture GURU

Neelesh Kasukurthi[1], Jimit Bhatt[2], Raj Tiwari[3]

[1-3]*(Students of VPPCOEVA, Mumbai)*
[4]*Under Guidance of-* ***Dr Mahavir Devmane****, HOD, Dept. of Computer Engineering, Vasantdada Patil Pratishthan's College of Engineering & Visual Arts, Mumbai, Maharastra, India*

Abstract - *With the growing global crises of food and hunger is rising day by day and there are not many people who are thinking regarding the topic. The consumption rate is increasing day by day but the production rate is only drastically falling rather than increasing. With the surveys done in recent years, the world might see global food crises by 2050. The main contribution presented in the paper is one insignificant step towards the future by accepting the information about the farming process from the farmers to help them. We accept the information provided about their crop along with the information of the other farmers in their locality and we analyse all the information provided by farmers in their locality for the starting first year and then we provide them with the best possible farming process year after year to bring the best for them and the society. Towards a better future together.*

***Key Words*: Data analysis, Database Administration, Agriculture, Visual/Graphical representation, Farmer.**

1. INTRODUCTION

This Project mainly focuses on the features of suggesting the best possible outcome for the Farmer, We gather the information that a farmer is using throughout the Agriculture process as when did he/she start: which Month, Which date he/she is updating the information, What kind of crop is being sown, and we also take the inputs like which type of pesticide he/she is using for the crop to be protected, we also the input as to where he/she belongs to as which Country, city. We take the input of the total expense of the Agriculture process from the very first step till the harvest, we then take the selling price like for much did he earn for the whole crop he/she harvested. We then calculate the profit or loss for his/her crop. We then store all of it in a database, and for one year we keep track of the farmer not only him/her but all the farmers for at least a year. We then prompt them with the message on the system providing them with the earlier Agriculture that they did at the same time previous year and we will also give them a suggestion about who was the one among the other farmers who got the highest profit in their locality. Along with the top, we will also suggest what he did across his/her Agriculture process and what were the things he used for the success he/she got. We will provide all the information locality wise for better reach for each other as farmers in the same locality can reach out to each other and have chat on how he/she got the success, Even we cannot provide all the information of his/her because privacy policies concern. But they all can have chat to have a better understanding of the process he/she undergone to get the profit.

1.1 Motivation

We are Losing 25,000 to Hunger Every Day. Around 9 million individuals pass on each extended time of endlessly hunger-related diseases. This is more than from AIDS, intestinal sickness and tuberculosis joined. A child dies from hunger every 10 seconds, and 1 in 9 people go to bed hungry, We will suffer a global crisis of food scarcity by 2050, Not everyone can afford to keep food in the refrigerator but if we work today we can change the tomorrow. We have seen that there are a lot of hunger deaths in the world and when we backtracked we found that hunger deaths are caused because of food scarcity and food scarcity is there because of lees production and less production is because farmers are not doing farming and it is because they have less profit and it is because they are getting less profit and to boost it we made this project.

1.2 Existing System

In the existing system, all farmers work hard but not much smartly, they work the existing systems by sowing only one kind of cops year after year with only a few changes in the techniques. As sowing only particular type in the part of the year even if there may be some other that can work for them. Currently, many of the frames are using very old but not many effective methods. The existing system also gives limited information when there are a lot more to process from the field they farm on and can be changed by a few basic factors to bring out the best.

1.3 Need for New System

Currently, farmers need some guidance regarding what they need at what time and how are they going to fetch the required details for the maximum profit for the harvest that they will get at the end. They need guidance about what they can change in their farming style for better outputs for their effort. We cannot guarantee a 100% Success rate but we rather can say we can boost some amount of output that is generated. The Crops are sorted and selected based on the top rankings by the user who is suitable for the nature of the locality for the harvest.

2. Objective

Our project is an application that acts as an Agriculture Guide giving out outputs to the user for every input given to the system. This System tries the user to give a heads-up giving them the best-suited profit-making harvest. The User has options to select for the places he/she wants to do Agriculture for instance Mumbai, Hyderabad, Bengaluru, and so on; the system will ask whether he is looking for the current region or another spot. We will provide them with information about the top performer's locality wise. The system is a Web Application that will act as an Agriculture Guide that will suggest users for every point by taking any input to the system thus the name "Agriculture GURU". This System tries to give the user suggestion on the profitable crops for the season or period. The system is used to help a Farmer with a new Agriculture approach towards better profit earning for them. This is done by suggesting the best profit earner in their locality. The Crops are sorted and selected based on the top rankings by the user. The User has options to select for the places he/she wants to do Agriculture for instance Mumbai, Hyderabad, Bengaluru, and so on; the system will ask whether he is searching for the current locality.

Chart -1: Ideal Profit and Expenditure/Revenue

The proposed system acts by accepting the information about the farming process from the farmers to help them. We accept the information provided about their crop along with the information of the other farmers in their locality and we analyse all the information provided by farmers in their locality for the starting first year and then we provide them with the best possible farming process year after year to bring the best for them and the society. Along The information provided by the user after logging in is displayed and give access to edit or delete them. They get the live count of how many users are present from which nationality and also can find how much was their expense for each kind of crop they have registered for.

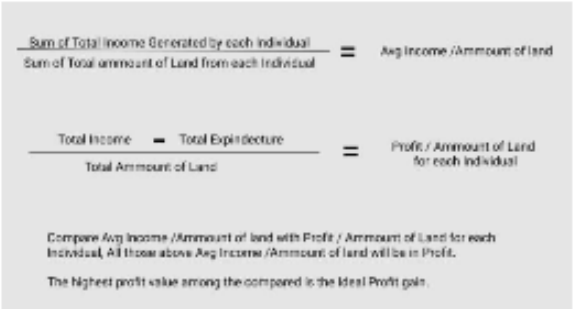


Fig -1: Proposed Profit Formula

3. CONCLUSION

We want to make sure every farmer gets the highest that he can and let them be a part in sustaining the food scarcity.

ACKNOWLEDGEMENT

Dr Mahavir Devmane, HOD, Department of Computer Engineering, VPPCOEVA.

Dr Alam Shaik, Principal, Department of Computer Engineering, VPPCOEVA.

REFERENCES

[1] A Survey on Smart Agriculture: Development Modes, Technologies, and Security and Privacy Challenges https://ieeexplore.ieee.org/abstract/document/9269526

[2] The Agriculture field experiment. A statical examination of theory and practice. https://www.cabdirect.org/cabdirect/abstract/19830750380

[3] JARQ: Japan Agricultural Research Quarterly https://www.jircas.go.jp/en/publication/list/jarq