



## **WEB PORTAL FOR AGRICULTURAL INSURANCE**

Internship report submitted to PSGR Krishnammal College for Women in partial fulfilment of the requirements for the award of the Degree of Bachelor of Computer Applications of Bharathiyar University, Coimbatore- 641046

Submitted by,  
**MAHENDRAN KAVISHKAveni**  
**(22BCA059)**

Guided by  
**Mrs. K. GEETHALAKSHMI MCA., M.Phil., B.Ed., (Ph.D.)**  
Assistant Professor, Department Of BCA,  
PSGR Krishnammal College for Women,  
Coimbatore 641 004

**DEPARTMENT OF BCA**  
**PSGR KRISHNAMMAL COLLEGE FOR WOMEN**  
College of Excellence  
An Autonomous Institution, Affiliated to Bharathiar University  
Accredited with 'A++' Grade by NAAC, An ISO 9001:2015 Certified  
Institution  
Peelamedu, Coimbatore-641004.  
July, 2024.

## **CERTIFICATE**

This is to certify that this internship entitled “**WEB PORTAL FOR AGRICULTURAL INSURANCE**” ,submitted to PSGR Krishnammal College for Women, Coimbatore in partial fulfilment of the requirement for the award of the Degree of bachelor of Computer Application is a record of the original work done by **MAHENDRAN KAVISHKAVERI (22BCA059)** during her period of study in the Department of **BCA**, PSGR Krishnammal College for Women, Coimbatore under my supervision and guidance and her internship work has not formed the basis for the award of any Degree/Diploma/Associate Fellowship or similar title to any candidate of any University.

Forwarded by

---

**Mrs. K. GEETHALAKSHMI MCA.,**  
**M.Phil., B.Ed., (Ph.D.)**  
**Faculty Guide And Head of the department**

## **DECLARATION**

I hereby declare that this internship work entitled “**WEB PORTAL FOR AGRICULTURAL INSURANCE**” submitted to PSGR Krishnammal College for Women, Coimbatore for the award of the degree Bachelor of Computer Applications is the record of original work done by **MAHENDRAN KAVISHKAVERI (22BCA059)** under the guidance of **Mrs. K. GEETHALAKSHMI MCA., M.Phil., B.Ed., (Ph.D.)** PSGR Krishnammal College for Women, Coimbatore and this internship work have not formed the basis for the award of any Diploma/Degree/Associate Fellowship or similar title to any Candidate of any University.

**MAHENDRAN KAVISHKAVERI**  
**(22BCA059)**

**DATE:**

**PLACE: COIMBATORE**

Endorsed by

**Mrs. K. GEETHALAKSHMI**  
**MCA., M.Phil., B.Ed., (Ph.D.)**  
(Faculty guide)

## ACKNOWLEDGEMENT

I take this opportunity to acknowledge with great pleasure, deep satisfaction and gratitude, the contribution of many individuals in the successful completion of the study.

I express my whole hearted thanks to **Dr. R. NANDINI, Chairperson**, PSGR Krishnammal College for Women, Coimbatore, for providing me with the necessary infrastructure for the successful completion of the study.

I convey my profound gratitude to **Dr. N. YESODHA DEVI, Secretary**, PSGR Krishnammal College for Women, Coimbatore for giving me the opportunity to undergo this course and to undertake this study.

I express our profound gratitude to **Dr. P. B. HARATHI M.Sc., MPhil, Ph.D., Principal**, PSGR Krishnammal College for Women, for her support and for all the resources.

I am extremely grateful to **Mrs. K. GEETHALAKSHMI MCA., M.Phil., B.Ed., (Ph.D.), Head of the Department of BCA**, for her invaluable guidance and enthusiasm throughout this study.

I express my thanks to **I-TECH SOFT SOLUTIONS** for providing me an opportunity to undertake the project work in his esteemed organization.

My sincere thanks to all staff of our department for their constant support and encouragement.

## TABLE OF CONTENTS

S.NO	TITLE	PAGE NO
1.	<b>Introduction</b>	<b>01</b>
	1.1 Purpose	
	1.2 Document Conventions	
	1.3 Intended Audience and Reading Suggestions	
	1.4 Product Scope	
	1.5 References	
2.	<b>Overall Description</b>	<b>04</b>
	2.1 Product Perspective	
	2.2 Product Functions	
	2.3 User Classes and Characteristics	
	2.4 Operating Environment	
	2.5 Design and Implementation Constraints	
	2.6 Assumptions and Dependencies	
3.	<b>External Interface Requirements</b>	<b>09</b>
	3.1 User Interfaces	
	3.2 Hardware Interfaces	
	3.3 Software Interfaces	
4.	<b>System Features</b>	<b>13</b>
	4.1 Authentication Module	
	4.2 User Registration Module	
	4.3 Policy Insurance Details	
	4.4 Policy Claim Details	
	4.5 Policy Booking Details	
	4.6 Payment Details	
	4.7 Verification Details	
	4.8 Feedback and Reporting	
5.	<b>Nonfunctional Requirements</b>	<b>16</b>
	5.1 Performance Requirements	
	5.2 Security Requirements	
	5.3 Software Quality Attributes	

6.	<b>Other Requirements</b>	<b>18</b>
	Appendix A: Glossary	
	Appendix B: Analysis Models	
	Appendix B: To Be Determined List	
	Appendix B: Project Description	

# 1. Introduction

## 1.1 Purpose

The **Web Portal for Agricultural Insurance** aims to create an innovative and efficient online platform tailored to meet the needs of farmers seeking agricultural insurance. With the increasing impact of natural disasters and other risks on agricultural productivity, this portal seeks to empower farmers by providing them with a straightforward means to access insurance services. The application is designed to streamline the processes of policy selection, application, claim submission, and payment tracking.

The objectives of this portal include:

- **Improved Accessibility:** The portal will offer farmers the ability to access insurance services from any location at any time, significantly enhancing convenience and reducing the dependency on physical offices.
- **Streamlined Processes:** By digitizing the application and claims processes, the portal will minimize paperwork and manual errors, facilitating quicker responses from insurance providers.
- **Enhanced Communication:** Timely notifications will keep farmers informed about the status of their applications and claims, thereby fostering trust and transparency in the insurance process.
- **Comprehensive Support:** The portal will provide resources and tools to help farmers understand their insurance options and the claims process, including FAQs, guides, and customer support contact information.

## 1.2 Document Conventions

This document adheres to standard conventions used in Software Requirements Specifications. All sections are organized with numbered headings and subheadings for easy reference. Important terms and acronyms are italicized, and any technical terms are defined in the glossary. Requirements are grouped logically to facilitate understanding and implementation, with functional requirements clearly specified under relevant modules.

## 1.3 Intended Audience and Reading Suggestions

The intended audience for this document includes:

- **Developers:** To gain a clear understanding of the functionalities required for the system's development and implementation.

- **Project Managers:** To monitor project scope, timelines, and deliverables based on the defined requirements.
- **Insurance Administrators:** To understand how the portal will improve policy and claims management, allowing for a more efficient workflow.
- **Quality Assurance Teams:** To design and execute test cases that ensure the system meets all functional and nonfunctional requirements.

Readers are encouraged to familiarize themselves with the introduction and overall description to grasp the system's purpose and the context in which it operates before reviewing the detailed functional and nonfunctional requirements.

## 1.4 Product Scope

The **Web Portal for Agricultural Insurance** is designed to serve as a comprehensive solution for the agricultural community, providing essential insurance services in a user-friendly digital format. This platform will enable farmers to:

- **Explore Insurance Options:** Access a variety of insurance schemes tailored to different agricultural needs, with detailed descriptions and eligibility criteria.
- **Register and Manage Accounts:** Create and manage personal accounts to track policies, submit claims, and view payment history.
- **Submit Claims Online:** Easily file claims for losses or damages, including the ability to upload supporting documents and photos for review.
- **Process Payments:** Make secure payments for insurance premiums and view transaction histories through an integrated payment processing system.
- **Provide Feedback:** Share experiences and suggestions to continuously improve the portal's offerings and user experience.

This project aims to not only enhance the accessibility of agricultural insurance but also improve the overall efficiency and effectiveness of the claims process, ultimately contributing to the financial security of farmers.

## 1.5 References

### Books

- Agricultural Insurance: Principles and Organization by P.K. Gupta
- Climate Change and Crop Insurance by S.S. Raju and Ramesh Chand
- Handbook of Agricultural Insurance by David C. Henneberry and O. J. Sill



## Websites

- Food and Agriculture Organization of the United Nations (FAO): [Agricultural Insurance Resources](#)
- World Bank: [Agricultural Insurance](#)

## 2. Overall Description

### 2.1 Product Perspective

The **Web Portal for Agricultural Insurance** is a web-based application developed to simplify and streamline agricultural insurance processes for farmers. This portal serves as a bridge between farmers seeking insurance and the insurance administrators responsible for managing policies and claims.

This application is a standalone system designed with PHP as the primary coding language for server-side processing, HTML, CSS, and JavaScript for front-end development, and MySQL for data storage. By leveraging these technologies, the portal offers an integrated solution that provides a secure, user-friendly, and responsive experience for users.

The platform is designed to:

- Serve as a centralized database for managing agricultural insurance policies.
- Provide an intuitive interface for users to register, select policies, submit claims, and track payments.
- Facilitate communication between farmers and administrators through automated notifications (via SMS and email) for important updates on claims and policies.

#### System Components:

- **User Interface:** Farmers interact with the portal through a browser-based interface designed to be accessible and straightforward.
- **Database:** MySQL is used to store user profiles, policy details, claims, and payment records securely.
- **Notification Services:** Integrates with SMS and email systems to ensure timely updates and notifications for both farmers and administrators.

### 2.2 Product Functions

The core functions of the **Web Portal for Agricultural Insurance** are tailored to meet the needs of both farmers and administrators. These functions include:

### **1. User Registration and Authentication:**

Allows farmers to register for an account with unique credentials, and log in to the portal securely.

Authentication mechanisms ensure that only authorized users can access specific features based on their roles.

### **2. Policy Management:**

Administrators can add, edit, or remove policies, specifying details like policy name, coverage, eligibility criteria, premium amounts, and claim limits.

Farmers can view available policies, assess their benefits, and select those that suit their agricultural needs.

### **3. Claim Submission and Processing:**

Farmers can submit claims for incidents that fall under the policy coverage. This process includes filling out a claim form and uploading relevant supporting documents, such as photos of damage.

Administrators review and verify the claims, requesting additional documentation if necessary, before approving or denying the claim.

### **4. Payment Management:**

The system enables administrators to manage and track insurance payments, while farmers can view payment records, track due dates, and receive payment confirmations.

Payment information includes policy fees, claim payouts, and any dues associated with policy renewals.

### **5. Feedback and Reporting:**

Farmers can provide feedback on their experience with the portal and the insurance process, which is stored in the system for further analysis.

Administrators can generate reports on policy performance, claim statistics, and user feedback, which are essential for decision-making and process improvements.

## 6. Notifications and Alerts:

The system automatically sends SMS and email notifications to farmers about claim status updates, payment reminders, and policy renewals.

Administrators also receive notifications about pending approvals, new policy applications, and feedback.

## 2.3 User Classes and Characteristics

The primary users of the system are classified into two distinct groups:

### 1. Farmers:

**Characteristics:** Farmers are the primary users of the portal. They may vary in technological proficiency, so the interface is designed to be simple and accessible.

**Functions:** Farmers can register, log in, view policy details, apply for insurance, file claims, and track payment statuses.

**Frequency of Use:** Depending on the policy cycle, farmers may interact with the portal periodically to renew policies, file claims, or check on claim progress.

### 2. Administrators:

**Characteristics:** Administrators have a deeper understanding of insurance management and are responsible for maintaining policy details, reviewing claims, and communicating with farmers.

**Functions:** Administrators manage the backend functions of the portal, such as updating policy information, verifying claim submissions, handling payments, and generating reports.

**Frequency of Use:** Administrators use the portal on a daily basis to oversee its operations, manage user interactions, and process claims efficiently.

## 2.4 Operating Environment

The operating environment for the **Web Portal for Agricultural Insurance** is outlined as follows:

- **Client Requirements:** Users access the portal through a standard web browser (e.g., Chrome, Firefox, Safari, Edge). The portal is optimized for use on desktops and laptops, although it can be accessed on tablets and mobile devices as well.
- **Server Requirements:** The server runs PHP for back-end processing and MySQL for database management. The platform is compatible with web servers such as Apache or Nginx, which support PHP applications.
- **Operating System Compatibility:** The system is primarily designed for Windows OS compatibility, but it can run on any OS that supports PHP and MySQL (e.g., Linux, Mac OS).

## 2.5 Design and Implementation Constraints

The following design and implementation constraints have been identified for the system:

### 1. Technology Constraints:

The system is developed using PHP and MySQL, which limit certain functionalities compared to more modern frameworks.

The user interface is built with HTML, CSS, and JavaScript, limiting the graphical capabilities to the capabilities of web-based front-end technologies.

### 2. Hardware Constraints:

No specialized hardware is required; however, users must have internet access and a device capable of running a modern web browser.

### 3. Regulatory Constraints:

The portal must comply with data protection regulations to ensure the security of user information.

Compliance with local agricultural insurance policies and regulations is required to ensure legitimacy.

### 4. Access Constraints:

Users require a stable internet connection to access the portal. Offline access is not supported.

The system's functionality depends on the availability of external services for SMS and email notifications, which must be consistently operational for full system functionality.

## **2.6 Assumptions and Dependencies**

The **Web Portal for Agricultural Insurance** relies on certain assumptions and external factors to operate effectively:

### **1. Internet Connectivity:**

It is assumed that all users have reliable internet access, as the system is entirely web-based and requires online connectivity to function.

### **2. Third-party Service Availability:**

The system depends on third-party SMS and email providers for sending notifications. Any disruptions or outages in these services may affect the notification delivery to users.

### **3. User Device Compatibility:**

It is assumed that users will access the portal via compatible devices, such as desktop computers, laptops, and smartphones, using updated web browsers.

### **4. Data Accuracy and Integrity:**

The portal relies on users to provide accurate data during registration, policy applications, and claim submissions. Incorrect or incomplete information may affect the system's ability to process claims efficiently.

### **5. Security Compliance:**

It is assumed that the platform will incorporate all necessary security protocols, such as data encryption and user authentication, to protect sensitive data and maintain user privacy.

### 3. External Interface Requirements

#### 3.1 User Interfaces

The user interface of the **Web Portal for Agricultural Insurance** is designed to be intuitive and user-friendly, facilitating easy navigation for both farmers and administrators. The primary user interfaces include:

##### 1. **Login and Registration Interface:**

**Login Page:** A straightforward interface where users enter their username and password to access the portal. Users can also reset their passwords if forgotten.

**Registration Form:** Collects essential information from farmers, such as full name, email address, contact number, and preferred username/password. The form includes validations to ensure that data entered is complete and correct.

##### 2. **Dashboard:**

**Farmer Dashboard:** Displays an overview of the user's insurance policies, claim status, payment history, and any alerts or notifications. The layout is designed for easy access to critical functions, such as filing a claim or viewing policy details.

**Administrator Dashboard:** Offers a comprehensive view of user activities, policy management options, claim submissions, and feedback received. Administrators can quickly navigate to different sections to manage tasks efficiently.

##### 3. **Policy Management Pages:**

A dedicated section for farmers to view available insurance policies, including detailed descriptions, eligibility requirements, coverage limits, and premium costs. The layout includes filters and search options to help users find relevant policies easily.

##### 4. **Claim Submission Form:**

A structured interface that guides farmers through the claim submission process. Users can upload supporting documents (such as photographs of damages), fill out required fields (like claim reason and amount), and review their entries before submission.

### **5. Payment Processing Interface:**

Provides farmers with secure access to manage their payments. Users can view outstanding balances, payment history, and due dates. The payment interface should support various payment methods, ensuring secure transactions.

### **6. Feedback and Reporting Interface:**

Allows farmers to submit feedback on their experience with the portal and insurance processes. The interface collects comments and ratings, providing administrators with valuable insights into user satisfaction.

## **3.2 Hardware Interfaces**

The **Web Portal for Agricultural Insurance** does not require specialized hardware. However, it operates effectively within the following hardware configurations:

### **1. Client-Side Requirements:**

Standard computing devices, such as personal computers, laptops, tablets, or smartphones, equipped with a modern web browser (Chrome, Firefox, Safari, etc.).

Input devices like keyboards and mice for data entry and navigation.

Optional: A printer may be used by farmers to print policy documents, claim receipts, or confirmation emails.

### **2. Server-Side Requirements:**

A server running the necessary web server software (e.g., Apache or Nginx) capable of executing PHP scripts and managing database interactions with MySQL.

Adequate server specifications to handle expected user traffic, including sufficient CPU, RAM, and storage space to maintain performance and reliability.

## **3.3 Software Interfaces**

### **PHP (Front-End):**

- **Server-Side Rendering:** PHP generates HTML and CSS dynamically based on user inputs and data from the back end. When users interact with forms (e.g., applying for



insurance or submitting claims), PHP processes the data on the server and generates the corresponding HTML content to display.

- **Form Handling:** PHP is excellent for managing user inputs through HTML forms. For example, farmers can submit insurance policies, claims, or premium payments, and PHP processes these actions, interacting with the back-end database (MySQL).
- **Responsive Design Support:** PHP can be integrated with front-end frameworks like **Bootstrap** (via CSS) to make your portal responsive, ensuring it adjusts to different devices like desktops, tablets, or mobile phones.
- **API Integration:** PHP can handle external APIs, such as retrieving real-time weather data for risk assessments and updating the portal dynamically using the information.

### HTML (Structure of the Front-End):

- **HTML** is the foundational language for structuring the content of the web portal. It defines the layout and user interface elements, such as:

**Forms** (<form>, <input>, <button>) for submitting insurance applications or claims.

**Tables** (<table>, <tr>, <td>) for displaying user data, like policy information or claims status.

**Links and Buttons** (<a>, <button>) to allow easy navigation between different sections of the portal (e.g., claims page, policy details).

### CSS (Styling and Presentation):

- **CSS** enhances the visual appeal of the HTML structure by defining the appearance of elements on the page:

**Layout and Design:** CSS ensures that your web portal is user-friendly and visually appealing by controlling the layout (e.g., using flexbox or grid), colors, fonts, and spacing.

**Responsive Design:** CSS allows the portal to adapt to different screen sizes, making it accessible across various devices.

**Styling Forms and Tables:** CSS styles forms and tables to make them easier to interact with, improving user experience.

### **MySQL (Back-End):**

- **Database Management:** MySQL stores structured data like user information, insurance policies, claims, and premium records. It is responsible for ensuring that the data can be accessed and managed effectively.
- **Scalability:** As the number of users grows, MySQL handles increasing amounts of data related to policies, claims, and premiums without performance degradation.
- **Security:** MySQL supports user roles and permissions, ensuring that sensitive data such as financial details are protected.
- **Query Optimization:** Efficient querying of the database is essential for generating real-time reports, analytics, and insights about policy performance and risk distribution.

### **Integration of PHP, HTML, CSS, and MySQL:**

- **PHP** generates **HTML** pages dynamically, incorporating data from the **MySQL** database and styling the page using **CSS** to make it visually appealing and responsive.
- When a user submits a form (e.g., applying for a policy or submitting a claim), **PHP** processes the form and interacts with **MySQL** to store or retrieve the necessary data.
- **CSS** styles the user interface and ensures that the web pages look clean and professional across all devices.

## **4. System Features**

### **4.1 Authentication Module**

The Authentication Module is essential for securing the Web Portal for Agricultural Insurance. It ensures that only authorized users can access the system, protecting sensitive information and functionalities. Upon accessing the portal, users are presented with a login interface where they must enter their username and password. The system checks these credentials against the stored data to verify user identities. If authentication is successful, users are granted access to their respective dashboards—farmers to manage their policies and claims, and administrators to oversee user activities and policy management. The module also includes a password recovery feature, enabling users to reset forgotten passwords through secure verification methods.

### **4.2 User Registration Module**

The User Registration Module allows farmers to create an account on the portal, providing them with the ability to access various services related to agricultural insurance. When a farmer initiates the registration process, they are presented with a form that requires them to input personal information, including their full name, email address, contact number, and a unique username and password. The system performs validation checks to ensure the uniqueness of the username and the completeness of the information provided. Upon successful registration, the user receives a confirmation, and their details are securely stored in the database, enabling them to log in and manage their insurance needs.

### **4.3 Policy Insurance Details**

The Policy Insurance Details module serves as a comprehensive repository for all insurance policies available to farmers. Administrators can add new policies, modify existing ones, or remove outdated policies from the system. Each policy entry includes vital information such as the policy name, description, eligibility criteria, coverage limits, and premium costs. Farmers can access this module to view detailed descriptions of each policy, which helps them make informed decisions based on their agricultural needs. The design allows for easy navigation and filtering options, enabling farmers to quickly find relevant policies.

#### **4.4 Policy Claim Details**

The Policy Claim Details module facilitates the submission and processing of claims by farmers. When a farmer experiences a loss due to an insured event, they can log into the portal to initiate a claim. This module provides a structured form where the farmer can input the details of the incident, including the nature of the loss, the estimated amount claimed, and any relevant documentation, such as photographs or reports. After submission, the claim enters a review process, where administrators can assess the information and documentation provided. This module ensures that the claims are handled efficiently and transparently, keeping farmers informed of the status of their claims throughout the process.

#### **4.5 Policy Booking Details**

The Policy Booking Details module allows farmers to select and apply for insurance policies that suit their needs. After reviewing the available policies, farmers can choose a specific policy to apply for and enter additional information required for the booking process. This may include payment information and confirmation of understanding the policy terms. The module tracks the application status, providing updates to the farmer as their application is processed. This functionality helps streamline the booking process, making it more accessible and manageable for farmers.

#### **4.6 Payment Details**

The Payment Details module is designed to manage all financial transactions associated with the insurance policies. Farmers can view their outstanding balances, make payments for policy premiums, and track their payment history through this module. Administrators have access to detailed financial records, enabling them to manage payments efficiently and ensure that all transactions are recorded accurately. The system also sends reminders to farmers regarding upcoming due dates, enhancing the overall user experience by minimizing the risk of missed payments.

#### **4.7 Verification Details**

The Verification Details module is a crucial component for administrators as it enables the review and verification of submitted claims and policy applications. When a claim is filed, administrators can access this module to review the details provided by the farmer and any attached documentation. This process may include contacting the farmer for additional information or conducting field verifications if necessary. Once the verification process is

complete, the administrator can approve or deny the claim based on the findings, ensuring that all claims are processed fairly and according to policy guidelines.

#### **4.8 Feedback and Reporting**

The Feedback and Reporting module allows farmers to provide feedback about their experience with the portal and the insurance services received. This feedback is invaluable for administrators seeking to improve system functionality and user satisfaction. Additionally, the module enables administrators to generate various reports related to policy usage, claim statistics, user activity, and feedback trends. These reports assist in decision-making processes and highlight areas where enhancements or adjustments may be needed to better serve the agricultural community.

## 5. Nonfunctional Requirements

### 5.1 Performance Requirements

- The system must support multiple concurrent users with minimal impact on response times.
- Response times for data retrieval and form submissions should not exceed 3 seconds under normal conditions.
- The system should efficiently handle peak loads, especially during critical periods such as policy enrolment and claim submissions.
- Optimization techniques must be employed for database queries and resource management to maintain performance levels.

### 5.2 Security Requirements

- All sensitive user data must be encrypted during transmission and storage using strong encryption standards.
- Implement multi-factor authentication (MFA) for user logins to enhance security measures.
- Conduct regular security audits and vulnerability assessments to identify potential risks and mitigate them promptly.
- Ensure compliance with data protection regulations such as GDPR and CCPA to safeguard user privacy.

### 5.3 Software Quality Attributes

- **Reliability:** The system should maintain an uptime of 99.5% or higher, ensuring continuous availability for users.
- **Maintainability:** The codebase should be modular and well-documented, allowing for easy updates and integration of new features.
- **Usability:** The user interface should be intuitive and accessible to users of varying technical expertise, with clear navigation and instructions.

- **Interoperability:** The system must integrate seamlessly with third-party APIs for SMS notifications, email services, and payment gateways, adhering to industry standards for data formats (e.g., JSON, XML).
- **Accessibility:** Compliance with the Web Content Accessibility Guidelines (WCAG) is required to ensure the portal is usable by individuals with disabilities, including providing text alternatives for non-text content and supporting keyboard navigation.

## 6. Other Requirements

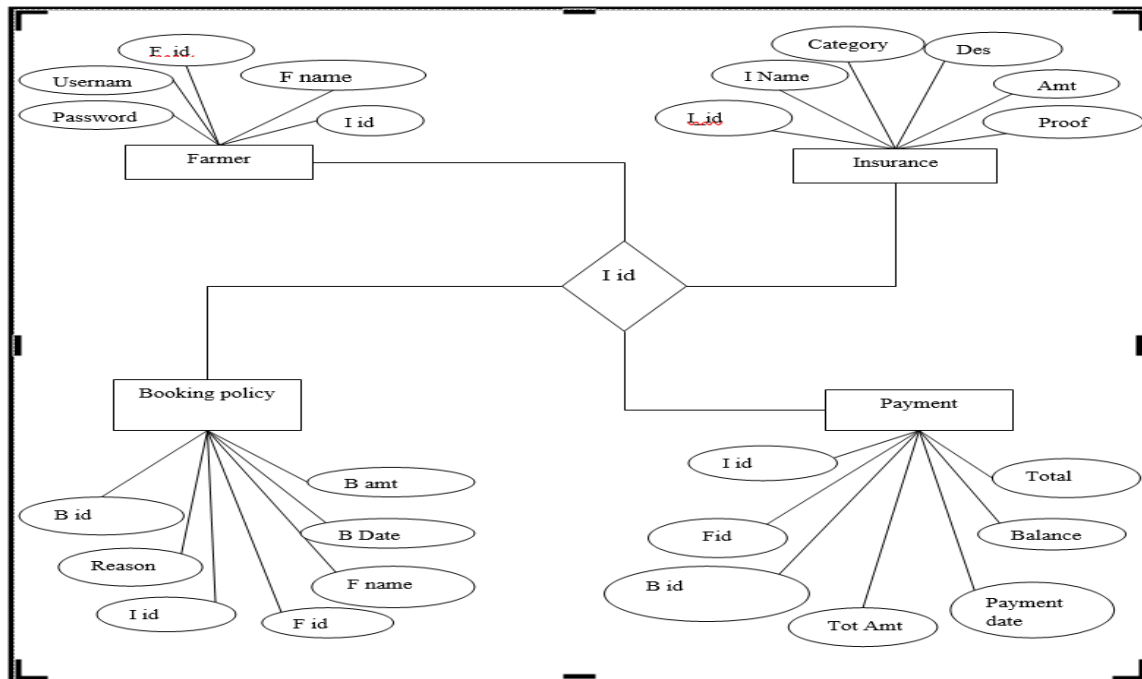
### Appendix A: Glossary

This section defines terms and acronyms used throughout the SRS document to ensure clarity and understanding.

- **API (Application Programming Interface):** A set of rules and protocols for building and interacting with software applications.
- **Crop Insurance:** A type of insurance that provides financial compensation to farmers in the event of crop loss due to unforeseen events like natural disasters, pests, or diseases.
- **IoT (Internet of Things):** A network of physical devices that communicate and exchange data over the internet.
- **MFA (Multi-Factor Authentication):** A security system that requires more than one method of authentication to verify the user's identity.
- **Premium:** The amount of money that an insured party pays to the insurance company for coverage under an insurance policy.
- **Risk Assessment:** The process of identifying and evaluating risks associated with insuring certain assets or operations.
- **SRS (Software Requirements Specification):** A detailed description of a software system to be developed, including functional and non-functional requirements.
- **Uptime:** The amount of time a system is operational and accessible.



## Appendix B: Analysis Models



## Appendix C: Determined List

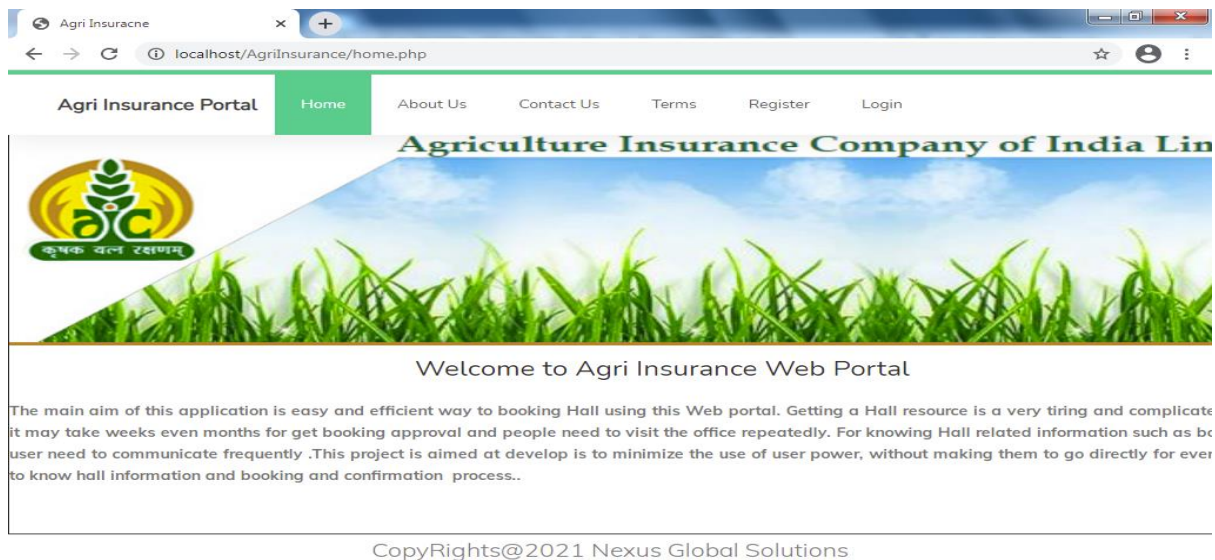
This section provides a list of all significant items, decisions, or constraints that have been determined during the development process.

- **List of Supported Insurance Types:** Crop insurance, livestock insurance, equipment insurance.
- **List of External APIs Integrated:** Weather data API, government database API for farmer verification, payment gateway API.
- **List of Supported Languages:** English, Spanish, French (expandable to other languages as required).
- **List of User Roles:** Administrator, Insurance Agent, Farmer, Claims Adjuster.
- **List of Reports Generated:** Policy performance report, risk assessment report, premium collection report, claims history report.
- **List of Notification Methods:** Email notifications, SMS alerts, in-app notifications.
- **List of Compliance Standards:** ISO/IEC/IEEE 29148:2018, GDPR, local agricultural insurance regulations.

## Appendix D: Project Description

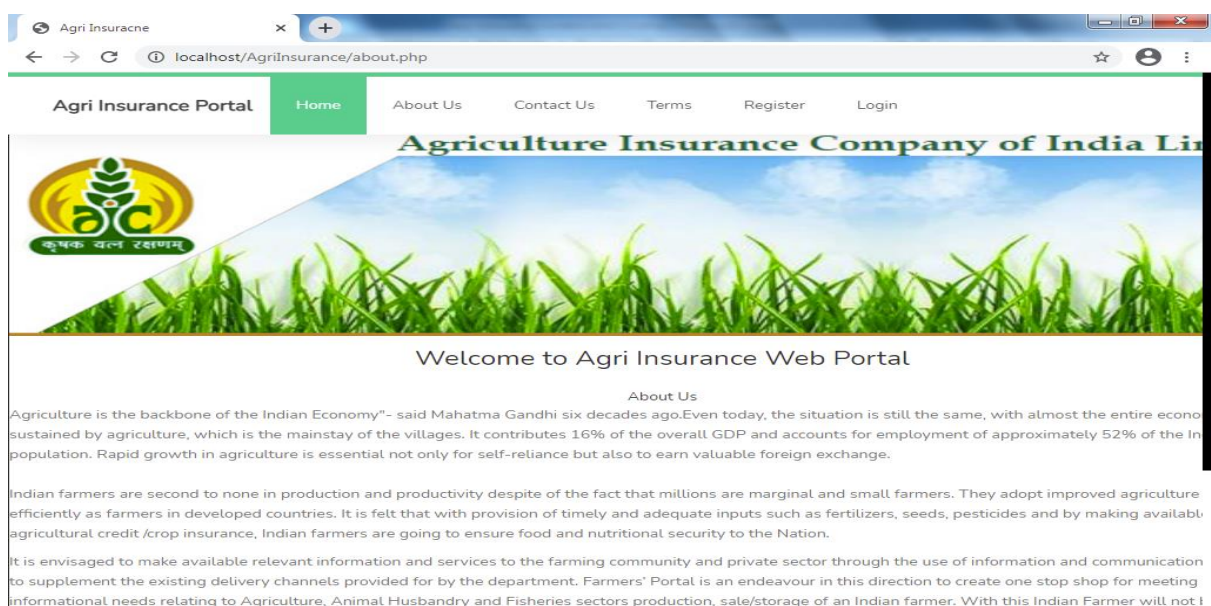
### Home Page Overview

This image displays the main landing page, featuring a navigation menu and highlighted insurance options for easy access.



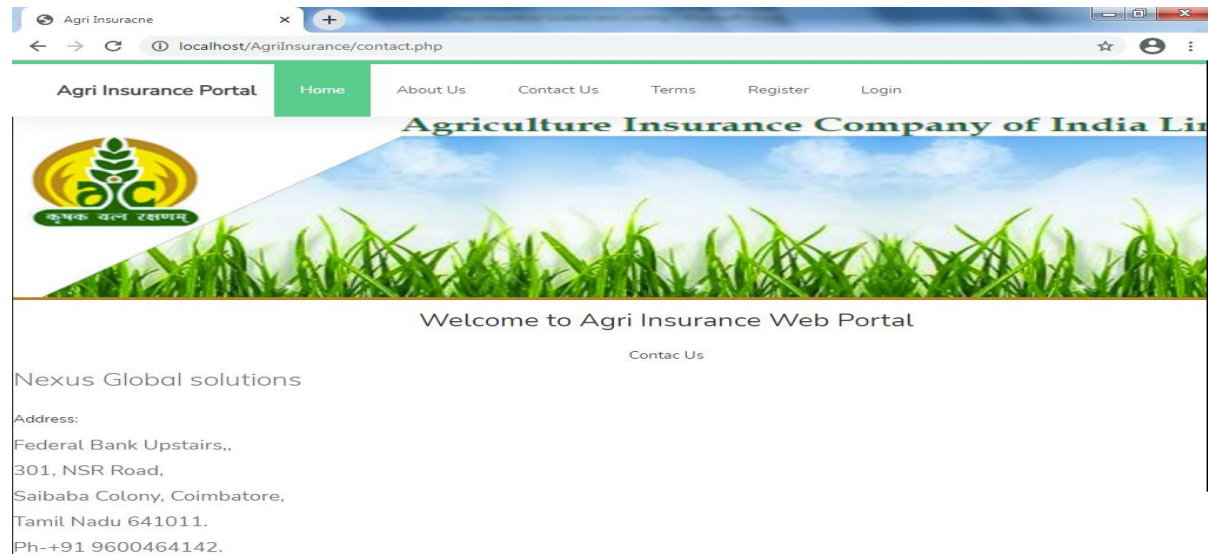
### About us Overview

This image shows the About Us section, outlining the portal's mission and commitment to supporting farmers.



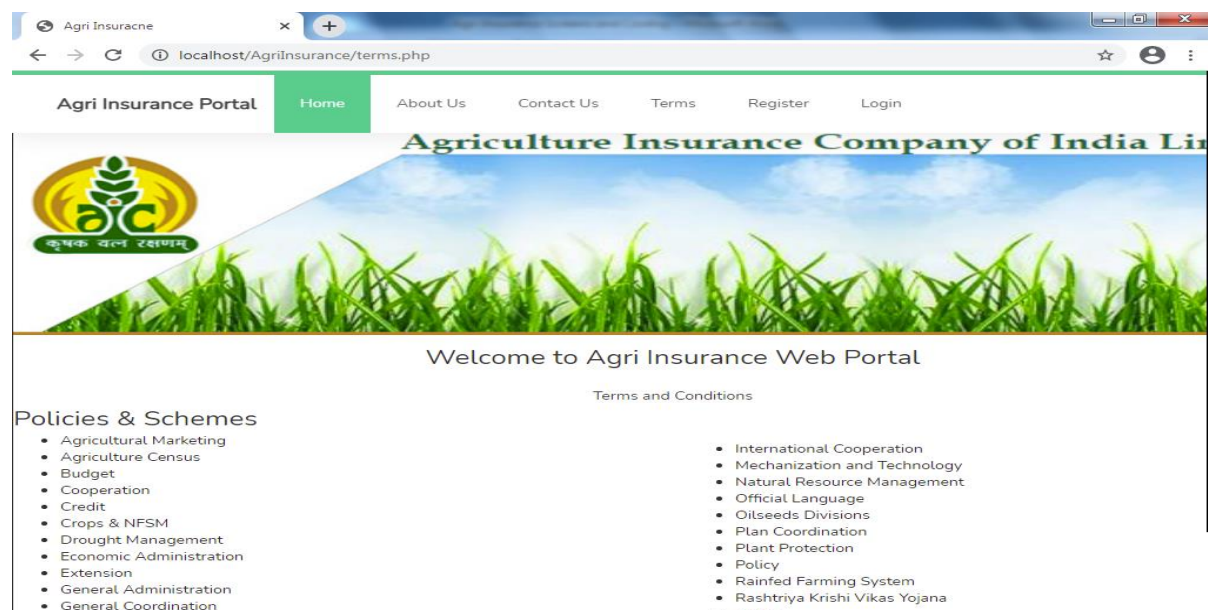
## Contact Us Overview

This image presents the Contact Us interface, allowing users to submit inquiries and feedback easily.



## Terms Overview

This image illustrates the Terms and Conditions page, detailing the legal agreements governing the portal's use.



## User Registration Form

This screenshot captures the user registration page, where farmers can enter their personal details to create an account. It showcases the required fields and validation prompts to ensure accurate data entry.



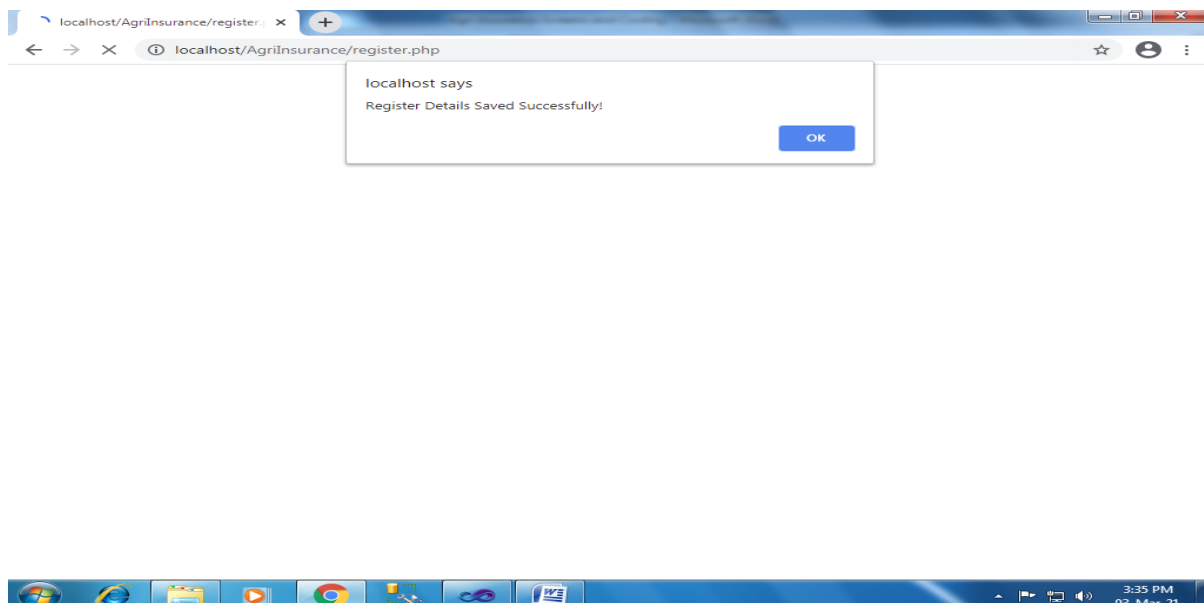
The screenshot shows a web browser window with the URL `localhost/AgriInsurance/register.php`. The page title is "Agri Insurance Portal". The navigation menu includes "Home", "About Us", "Contact Us", "Terms", "Register", and "Login". The main heading is "Welcome to Agri Insurance Web Portal". Below the heading is a form titled "New User Register Details". The form contains the following fields:

Field	Value
Register ID	2
Farmer Name	sinto
Gender	Male
Contact	8956231470
Email ID	sinto@gmail.com
Address	Coimbatore
District	Palakkad
State	Kerala
Pincode	643071
User Name	sinto
Password	sinto

At the bottom of the form are "Register" and "Cancel" buttons. To the right of the form is a large image of a hand holding a small plant. Below the form, the text "CopyRights@2021 Nexus Global Solutions" is displayed.

## Successful Registration Confirmation

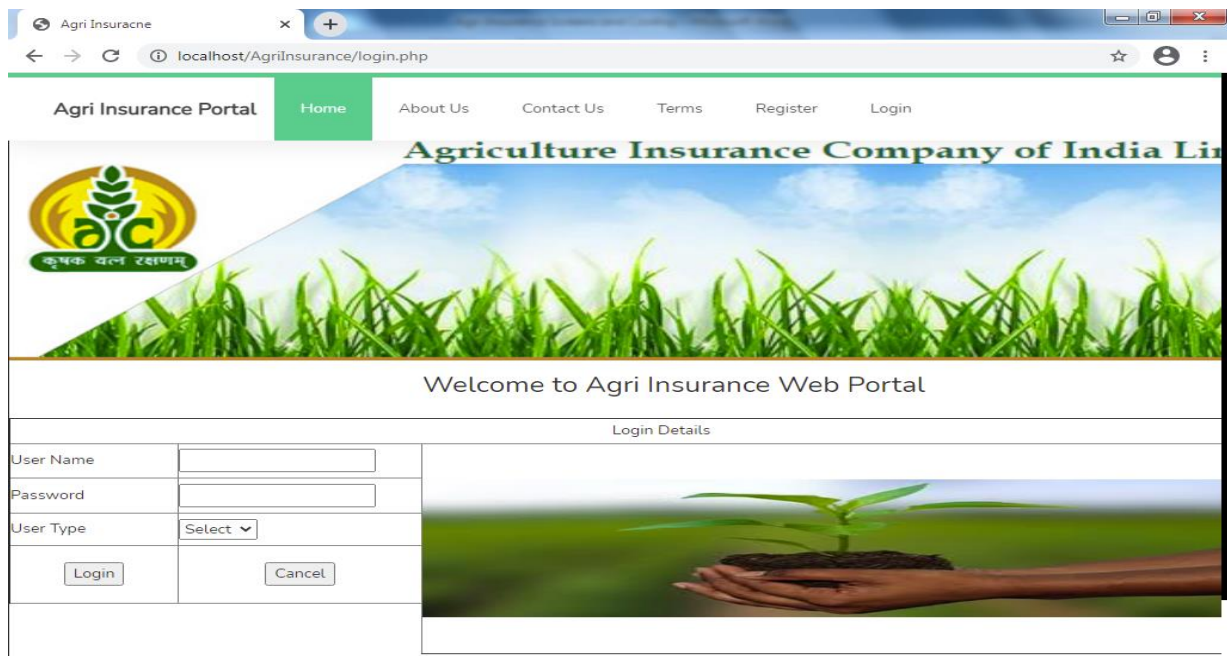
This image displays the confirmation message after a user successfully registers, indicating that their account has been created and they can now log in to the portal.





## User Login Interface

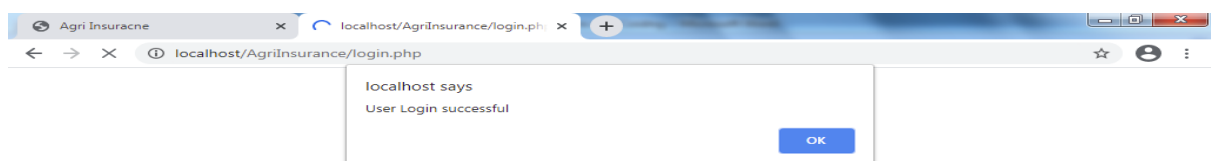
This view displays the user login page where farmers enter their credentials to access their accounts. The layout emphasizes security and ease of access for users.



The screenshot shows a web browser window with the URL `localhost/AgriInsurance/login.php`. The page features a navigation bar with links: Home, About Us, Contact Us, Terms, Register, and Login. Below the navigation bar is a banner image of a green field with a blue sky. The text "Agriculture Insurance Company of India Ltd" is visible. A welcome message "Welcome to Agri Insurance Web Portal" is displayed. The login form is titled "Login Details" and includes fields for User Name, Password, and User Type (a dropdown menu). There are "Login" and "Cancel" buttons. A large image of a hand holding a small plant is also visible on the right side of the form.

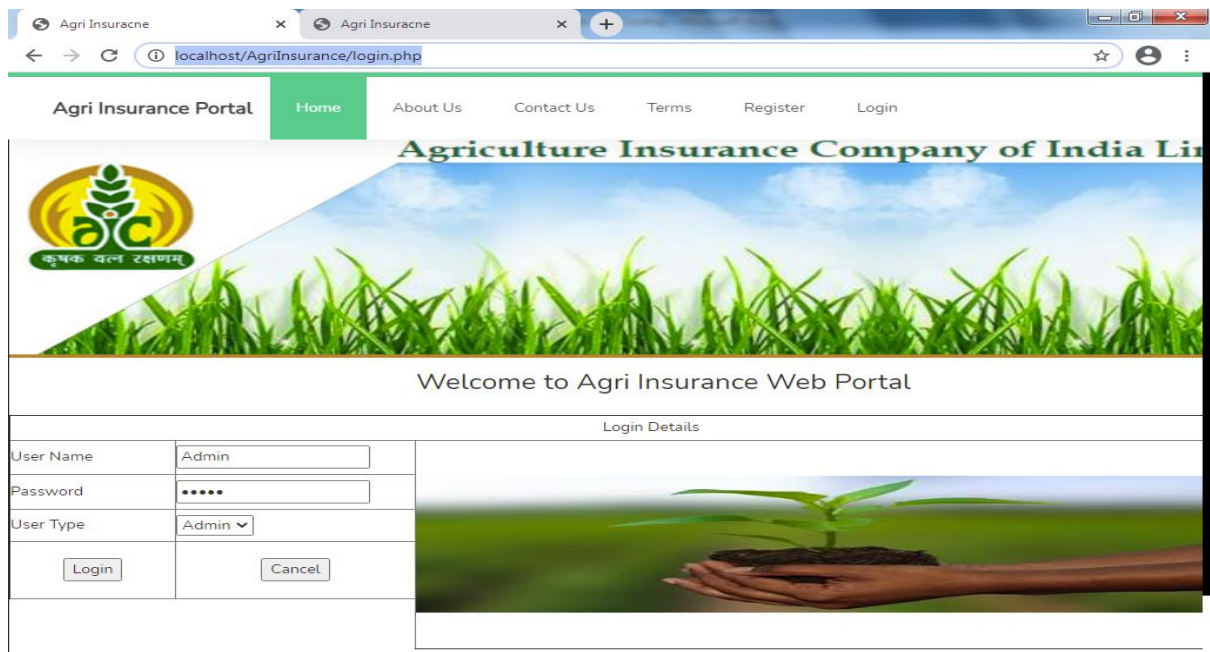
## User Login Confirmation

This illustration confirms a successful login for a farmer, redirecting them to their dashboard. It indicates that the user can now manage their insurance policies and claims.



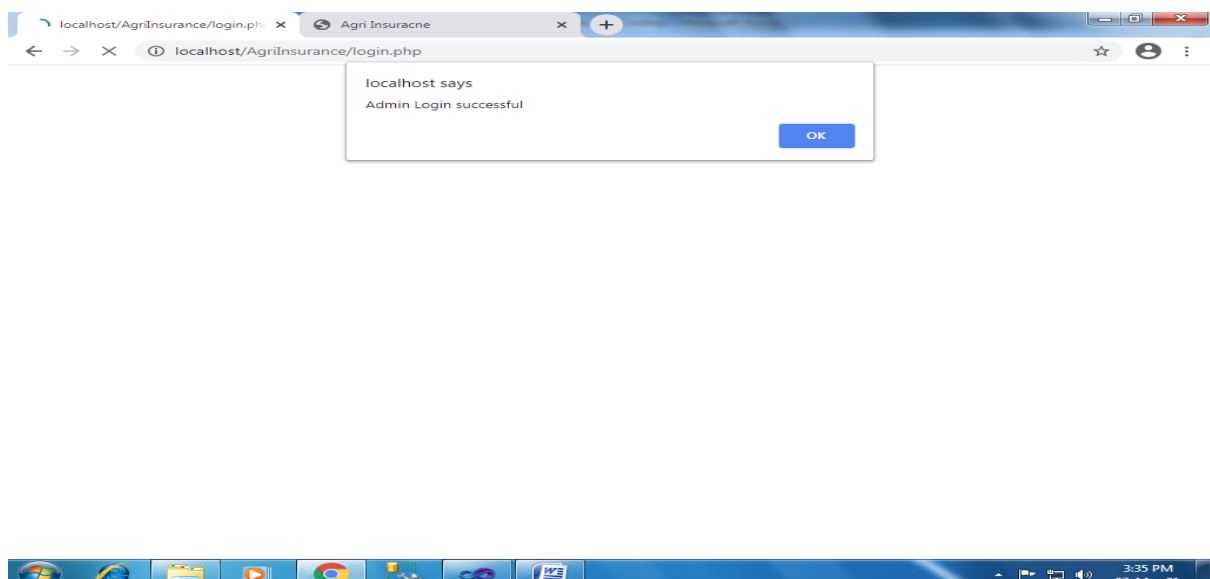
## Administrator Login Interface

This view shows the admin login page, where administrators enter their credentials to access the backend management features of the portal.



## Administrator Login Confirmation

This illustration confirms a successful login for an administrator, granting them access to policy management, user activities, and claims processing.



## Add Policy Form

This display depicts the add policy interface, where administrators can input details for new insurance policies. It includes fields for policy name, coverage, eligibility, and premium information.

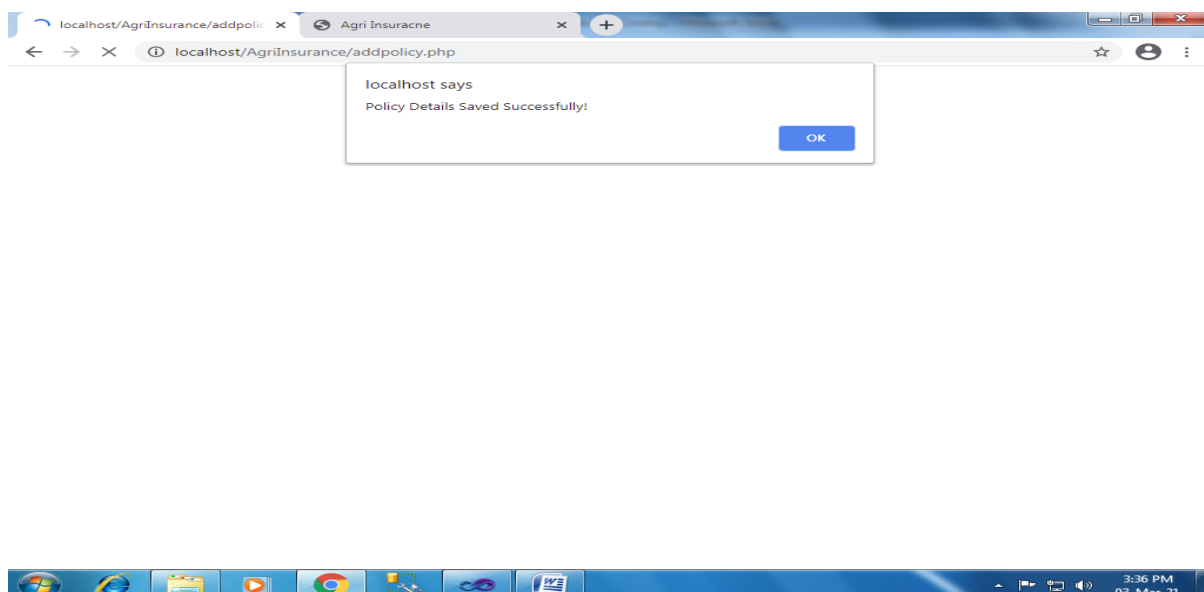
The screenshot shows a web browser window with the URL `localhost/AgriInsurance/addpolicy.php`. The page has a green header with the text "Agri Insurance Portal" and a navigation menu with links: Home, Add Policy, Approve, Claim, Verification, VFeedback, and Logout. Below the header is a large green banner with the text "Administrative Officer" and "Welcome to Agri Insurance Web Portal". The main content area is titled "New Policy Add Details" and contains a form with the following fields:

Policy ID	2
Policy Name	Land Policy
Policy Type	Own Land
Policy Amount	3Lacks
Policy Duration	3years
Due Amount	3000
Due Period	6months once
Coverage Amount	3lacks
Description	Good

At the bottom of the form are two buttons: "Add Policy" and "Cancel". To the right of the form is a large image of a hand holding a small green plant. Below the form, the text "Copyrights@2021 Nexus Global Solutions" is visible.

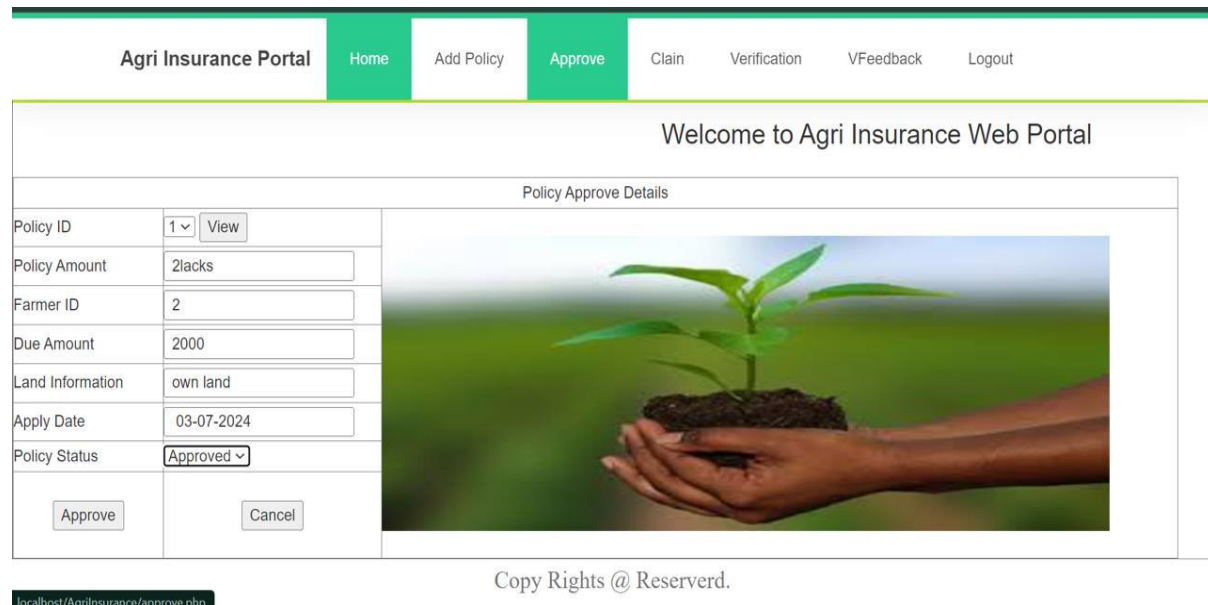
## Policy Addition Confirmation

This illustration shows the confirmation message indicating that a new policy has been successfully added to the system, allowing users to view it on the portal.



## Claim Approval Interface

This view illustrates the claim approval section, where administrators review claims submitted by farmers. It displays necessary claim details and options for approval or denial.



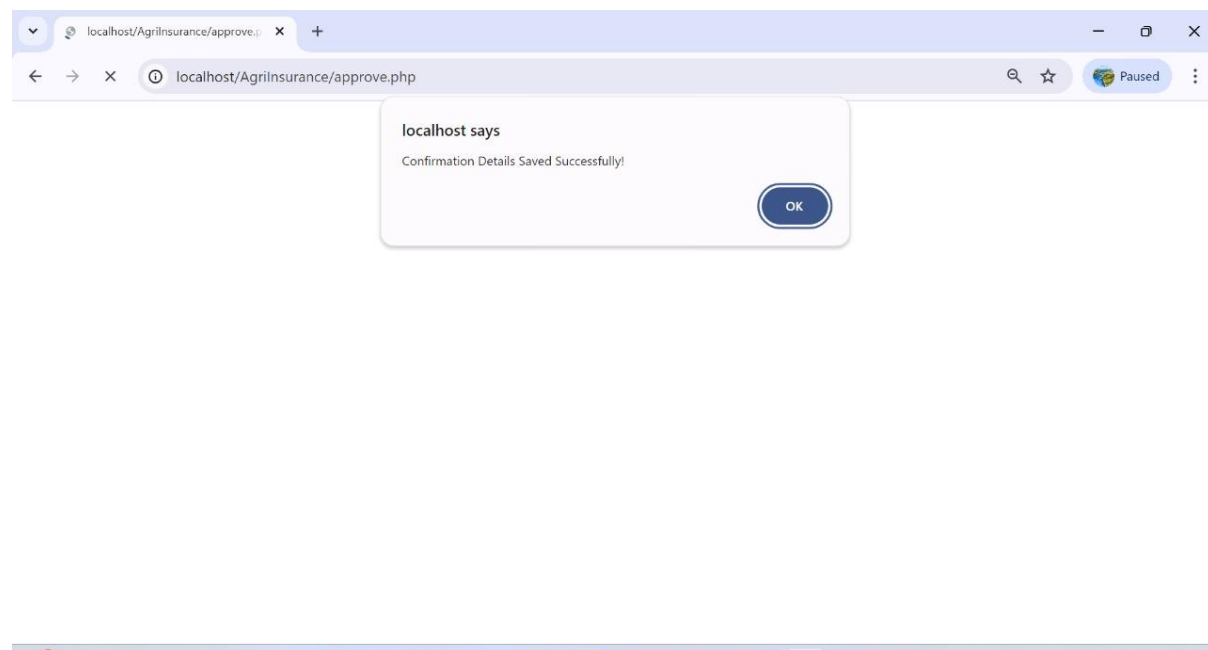
The screenshot shows the 'Agri Insurance Portal' with a navigation bar containing 'Home', 'Add Policy', 'Approve', 'Claim', 'Verification', 'VFeedback', and 'Logout'. The 'Approve' tab is active. Below the navigation bar is a welcome message: 'Welcome to Agri Insurance Web Portal'. The main content area is titled 'Policy Approve Details' and contains a form with the following fields:

Policy ID	1	<input type="button" value="View"/>
Policy Amount	2lacks	
Farmer ID	2	
Due Amount	2000	
Land Information	own land	
Apply Date	03-07-2024	
Policy Status	Approved	
<input type="button" value="Approve"/>		<input type="button" value="Cancel"/>

To the right of the form is a large image showing a pair of hands holding a small green seedling with soil. Below the image, the text 'Copy Rights @ Reserved.' is displayed. The browser address bar shows 'localhost/AgriInsurance/approve.php'.

## Claim Approval Confirmation

This illustration confirms that a claim has been successfully approved, notifying the farmer of the decision and any further actions required.





## Payment Interface

This view depicts the payment processing section, where farmers can view their outstanding balances and make payments for their policies.

Agri Insurance Portal

Home

Apply Policy

Payment

claim Policy

Verification


Feedback

Logout

Welcome to Agri Insurance Web Portal

Policy Payment Details

Payment Date	01-10-2024
Policy ID	5 <input type="button" value="View"/>
Policy Amount	2lacks
Due Month	2
Due Amount	2000
Land Type	own land
Bank Name	job
Card Number	2467890874
Expiry Details	12/25
<input type="button" value="Payment"/>	<input type="button" value="Cancel"/>

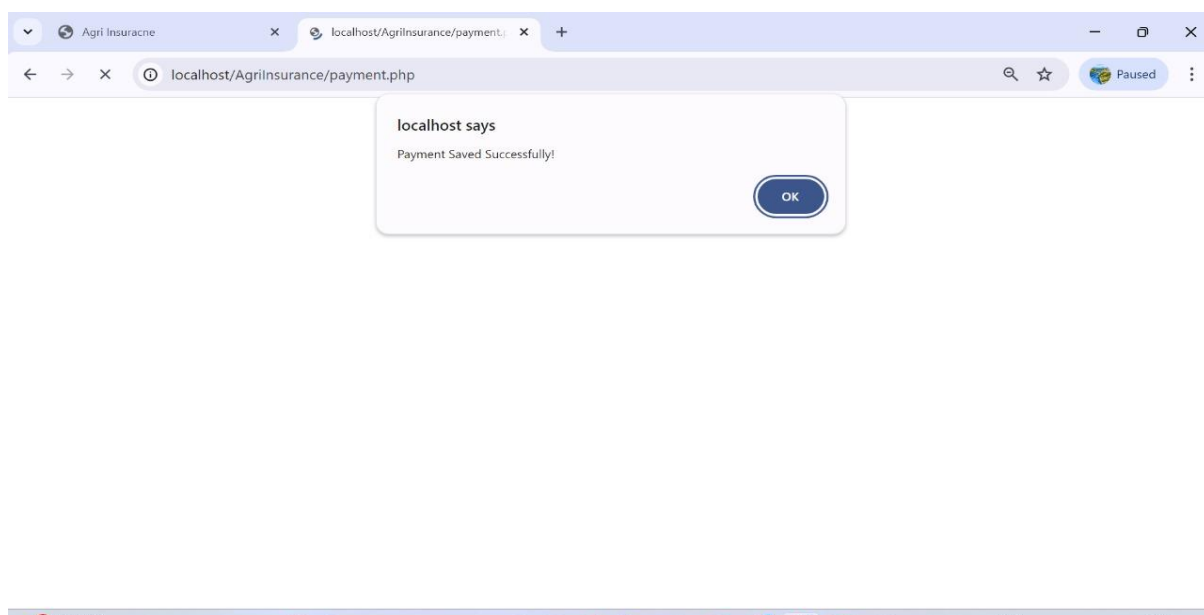


Copy Rights @ Reserverd.

localhost/AgriInsurance/payment.php

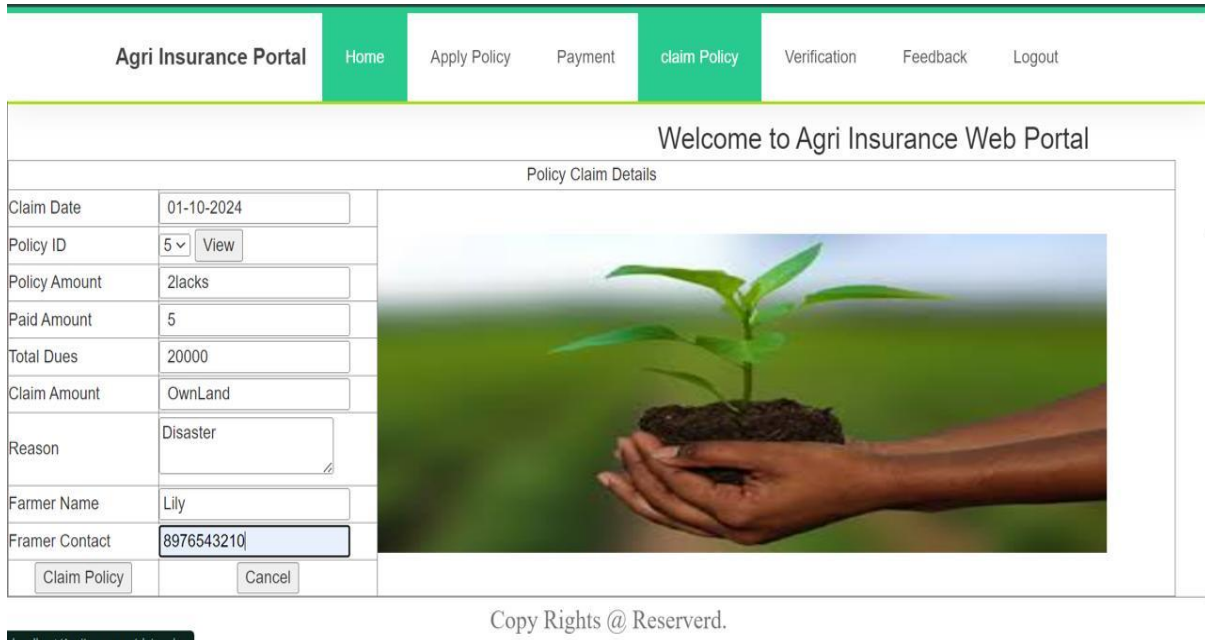
## Payment Confirmation

This illustration confirms that a payment has been successfully processed, providing the user with a receipt and updating their account status.



## Apply for Policy Interface

This view shows the interface for applying for a selected insurance policy, where farmers can review policy details and submit their applications.



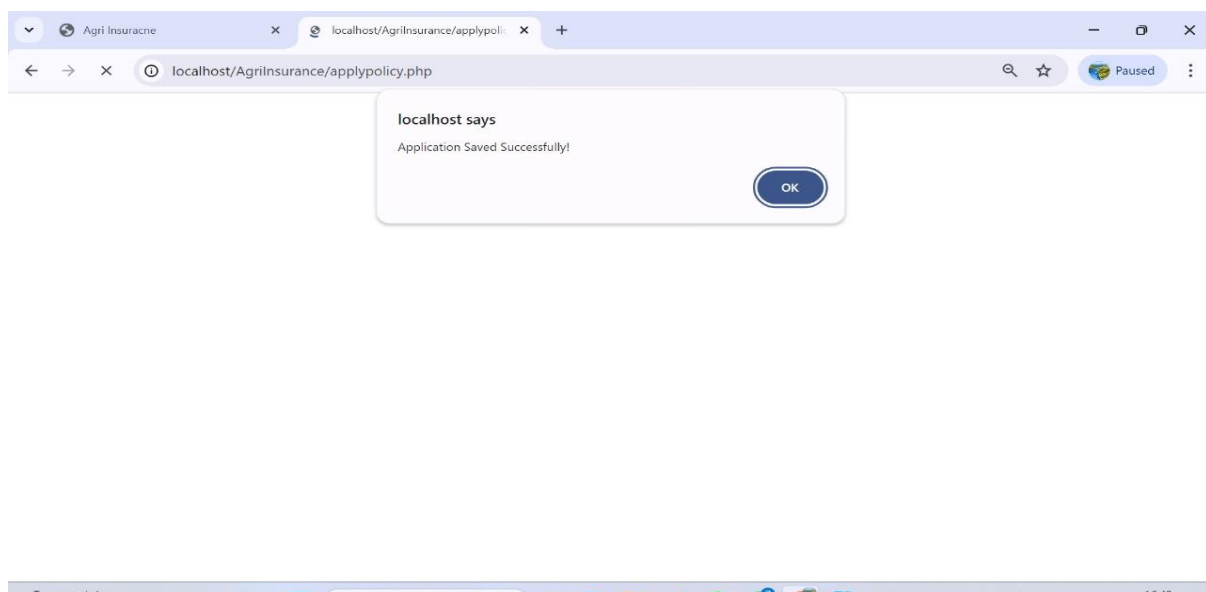
The screenshot displays the 'Agri Insurance Portal' with a navigation bar containing links: Home, Apply Policy, Payment, claim Policy (highlighted), Verification, Feedback, and Logout. Below the navigation bar, a welcome message reads 'Welcome to Agri Insurance Web Portal'. The main content area is titled 'Policy Claim Details' and contains a form with the following fields:

Claim Date	01-10-2024
Policy ID	5 <input type="button" value="View"/>
Policy Amount	2lacks
Paid Amount	5
Total Dues	20000
Claim Amount	OwnLand
Reason	Disaster
Farmer Name	Lily
Framer Contact	8976543210

At the bottom of the form are two buttons: 'Claim Policy' and 'Cancel'. To the right of the form is a large image of a hand holding a small green seedling in soil. Below the form, the text 'Copy Rights @ Reserverd.' is visible. The browser's address bar shows 'localhost/AgrInsurance/claim.php'.

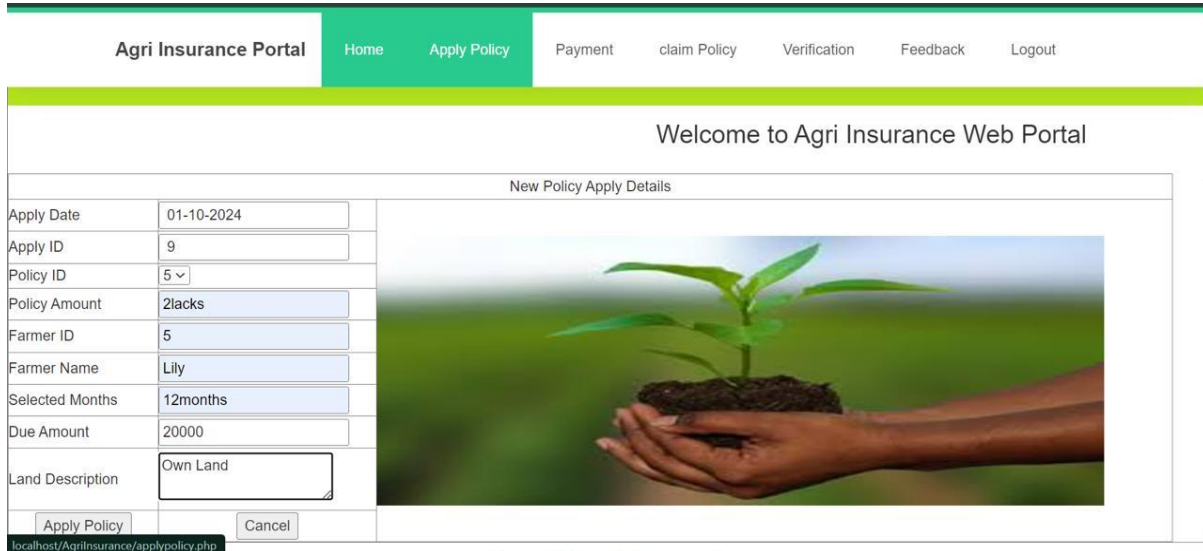
## Policy Application Confirmation

This illustration confirms that the application for the selected policy has been successfully submitted, notifying the farmer of the next steps in the process.



## Apply for Policy Interface

This view illustrates the interface where farmers can select and apply for an insurance policy. The application form includes fields for entering required information, reviewing policy terms, and submitting supporting documents.



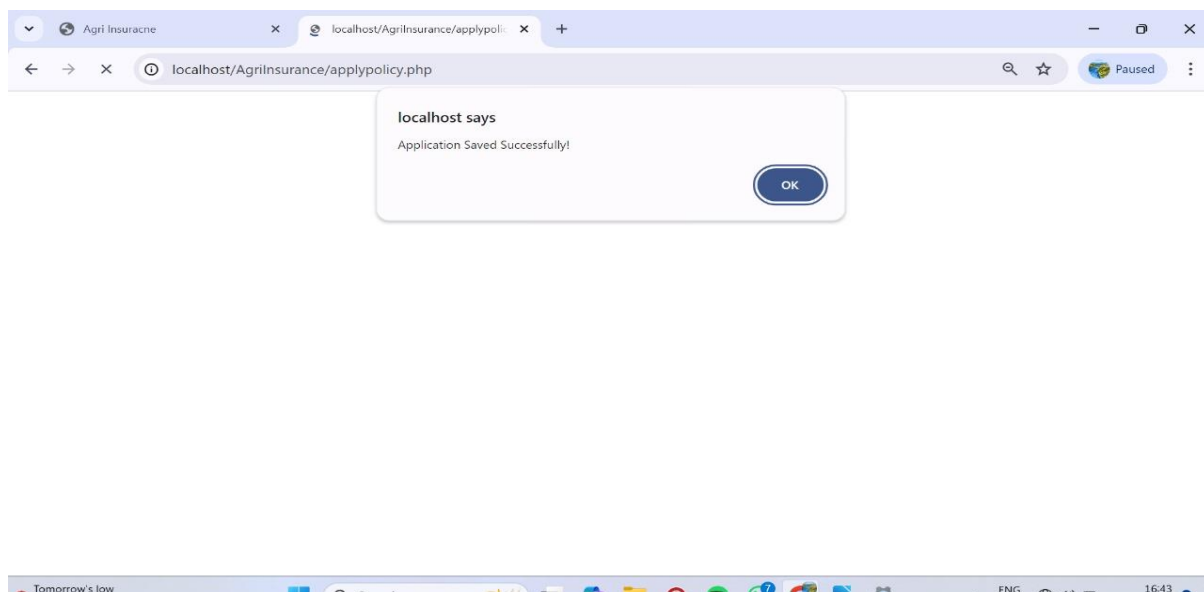
The screenshot shows the 'Agri Insurance Portal' with a navigation bar containing 'Home', 'Apply Policy', 'Payment', 'claim Policy', 'Verification', 'Feedback', and 'Logout'. The main heading is 'Welcome to Agri Insurance Web Portal'. Below this is the 'New Policy Apply Details' form. The form contains the following fields:

Field	Value
Apply Date	01-10-2024
Apply ID	9
Policy ID	5
Policy Amount	2lacks
Farmer ID	5
Farmer Name	Lily
Selected Months	12months
Due Amount	20000
Land Description	Own Land

At the bottom of the form are two buttons: 'Apply Policy' and 'Cancel'. To the right of the form is a large image of a hand holding a small green seedling in soil. The browser's address bar shows 'localhost/AgriInsurance/applypolicy.php'.

## Application Submission Confirmation

This display confirms that the application for the selected insurance policy has been successfully submitted.



## Feedback Submission Form

This view shows the feedback submission interface, where farmers can provide their experiences and suggestions regarding the portal and insurance services.



The screenshot shows a web browser window with the URL `localhost/AgriInsurance/Feedback.php`. The page has a navigation bar with links: Home, Apply Policy, Payment, claim Policy, Verification, Feedback, and Logout. Below the navigation bar is a green banner with the text "Administrative Officer" and "Welcome to Agri Insurance Web Portal". The main content area is divided into two sections. On the left is a form titled "Feedback Details" with the following fields: Feedback Date (03-03-2021), Feedback ID (2), Farmer ID (2) with a "View" button, Farmer Name (sinto), Feedback Type (General), and Description (Thank You). Below the form are "Payment" and "Cancel" buttons. On the right is a large image of a hand holding a small green plant.

## Feedback Submission Confirmation

This illustration confirms that the feedback has been successfully submitted, thanking the user for their input and indicating that their feedback will be reviewed.

