



SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY
AGRICULTURAL MANAGEMENT SYSTEM

FINAL REPORT

INFORMATION TECHNOLOGY PROJECT (IT2080)
2022

GROUP ID: WD_B01_ITP_G07

SUBMITTED BY

1. IT20605902 – Samarasinghe S.D
2. IT20610166 – Kumarapeli K.A.P.P
3. IT20604844 – Thilakarathna W.G.T.D
4. IT20612696 – Senanayake D.B
5. IT20299552 – Rubasinghe L.M
6. IT20607678 – W.S.M.S.D Senevirathne
7. IT20607128 – Shalinda R.M.M
8. IT20617028 – Wanni Arachchige P.N

SUBMITTED TO:
Ms. Archchana Kugathasan

.....

(SUPERVISOR'S SIGNATURE)

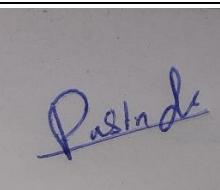
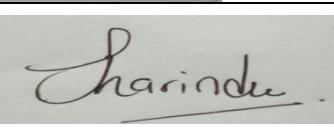
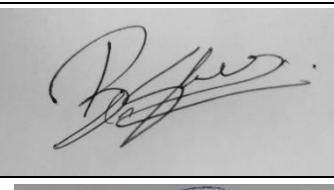
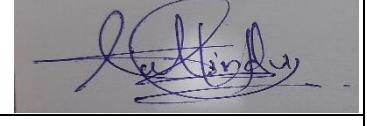
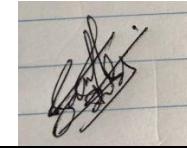
Declaration

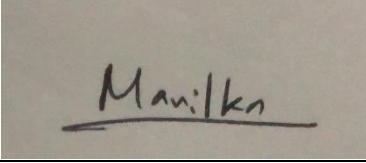
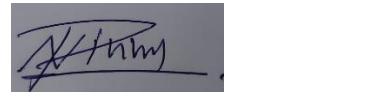
We declare that this project report or part of it was not a copy of a document done by any organization, university any other institute or a previous student project group at SLIIT and was not copied from the Internet or other sources.

Project Details

Project Title	Agricultural Management System
Project ID	WD_B01_ITP_G07

Group Members

Reg. No	Name	Signature
IT20605902	Samarasinghe S. D	
IT20610166	Kumarapeli K.A.P. P	
IT20604844	Thilakarathna W.G.T. D	
IT20612696	Senanayake D. B	
IT20299552	Rubasinghe L.M	
IT20607678	W.S.M.S.D Senevirathne	

IT20607128	Shalinda R.M.M	
IT20617028	Wanni Arachchige P. N	

Acknowledgement

There were many people who assisted us in many ways while we were developing this application. Primarily, we would like to thank the Supervisors, lecturers, and instructors who provided continuous guidance from the beginning. Also, I'd like to thank our client AgroTech LLC for entrusting us with this project and for providing us with instructions and guidance. Finally, we would like to thank our classmates for sharing their thoughts and ideas with us. This project would not have been possible without the help and guidance of all the people mentioned above in such a brief period.

Table of Contents

1.

Declaration.....	2
Acknowledgement.....	4
Table of Contents.....	5
Abstract.....	9
List of Figures.....	6
List of Tables.....	8
Introduction.....	10
Project Scope.....	11

2. Methodology9

Requirements and Analysis	
2.1.1 Use Case Scenarios.....	16
2.1.1 Use case	
Diagrams.....	42
2.2.3 High Level Architecture	
Diagram.....	52
2.2.2 ER Diagram	
.....	54
2.2.4 Activity Diagrams.....	55
2.2.5 Test Cases.....	74
2.2.6 User Interfaces.....	99
3. Conclusion	159

List of Figures

Figure 1Ecommerce store usecase diagram	49
Figure 2Education management usecase diagram	50
Figure 3Career management usecase diagram.....	52
Figure 4Land sale management usecase diagram	52
Figure 5Lab report management usecase diagram.....	54
Figure 6Event management usecase diagram	55
Figure 7Health care management usecase diagram	57
Figure 8Wholesale management usecase diagram.....	61
Figure 9Buy product from store activity diagram.....	62
Figure 10Add product activity diagram.....	64
Figure 11Event management Activity diagram	65
Figure 12Laboratory management activity diagram	67
Figure 13Land sale management activity diagram	67
Figure 14Career management activity diagram	70
Figure 15vacancy managment activity diagram	71
Figure 16course management activity diagram	72
Figure 17course home activity diagram.....	74
Figure 18Health care management activity diagram	75
Figure 19Company activity diagram.....	78
Figure 20Product activity diagram.....	80
Figure 21Store ui part 1	107
Figure 22Store ui part 2	108
Figure 23Store ui part 3	109
Figure 24Store latest product ui part 1.....	110
Figure 25Store latest product ui part 2.....	111
Figure 26Store categories part 1	112
Figure 27Store ui product details part 1.....	113
Figure 28Store order place ui part 1.....	114
Figure 29Store payment pay stram	115
Figure 30Store payment confirm stream.....	116
Figure 31Store product admin	117
Figure 32Store Order admin	118
Figure 33Store payment admin	119
Figure 34Store add product.....	120
Figure 35Store edit product	121
Figure 36Course Home ui part 1	122
Figure 37Course Home ui part 2.....	122
Figure 38Course Home ui part 3.....	123
Figure 39Course Home ui part 4.....	123
Figure 40Course category ui part 1	124
Figure 41Course category ui part 2.....	124
Figure 42Course content part 1.....	125
Figure 43Course content part 2.....	125
Figure 44Course content part 3.....	126
Figure 45Course admin console.....	126
Figure 46Course admin search ui.....	127

Figure 47Add new course ui 1	127
Figure 48Add new course ui 2	128
Figure 49Add new course ui 3	128
Figure 50Update course ui 1	129
Figure 51Update course ui 2	129
Figure 52Course admin delete	130
Figure 53Course admin report	130
Figure 54Course report pdf	131
Figure 55Career Home	131
Figure 56Vacancy display ui 1	132
Figure 57Career vacancy display ui 2	132
Figure 58Apply Vacancy 2	133
Figure 59Apply vacancy 3	133
Figure 60Apply vacancy 4	134
Figure 61Add new vacancy	134
Figure 62 Vacancy admin dashboard	135
Figure 63Vacancy applicant dashboard	135
Figure 64Guidance display	136
Figure 65Applicant ui dashboard	136
Figure 66Career ui 12	137
Figure 67Applicant ui dashboard	137
Figure 68Register candidate ui 1	138
Figure 69Guidance applicant ui 1	138
Figure 70Career ui Register candidate	139
Figure 71Applicant ui report	139
Figure 72Laboratory technician ui	140
Figure 73Lab report form ui 2	141
Figure 74Lab report admin report data	142
Figure 75Lab report edit ui	143
Figure 76Lab report edit ui 2	143
Figure 77All Lab report user	144
Figure 78All lab report user 2	144
Figure 79User specific lab report ui 1	145
Figure 80User specific lab report ui 2	145
Figure 81Land sale home ui 1	146
Figure 82Land sale all ad ui	146
Figure 83Land sale admin ui	147
Figure 84Add advertisement ui 1	148
Figure 85Add advertisement ui 2	148
Figure 86Edit advertisement ui 2	149
Figure 87Edit advertisement ui 1	149
Figure 88Admin prompt ui 2	150
Figure 89Admin prompt ui 1	150
Figure 90Advertisement view ui 2	151
Figure 91Advertisement view ui 1	151
Figure 92Event admin dashboard	152
Figure 93Event register form	152
Figure 94Event home page ui 1	153
Figure 95Event home page ui 2	153
Figure 96Event home page 3	154

Figure 97Event add event ui 1	154
Figure 98Event Add event ui 2	155
Figure 99Loan home page	155
Figure 100Loan registration 1	156
Figure 101Loan registration 2	156
Figure 102Loan admin	157
Figure 103Eligible list	157
Figure 104Health care appointments	158
Figure 105All appointments customer view	158
Figure 106Healt care admin dashboard	158
Figure 107Admin ui prompts delete	158
Figure 108Health care update appointments.....	158
Figure 109Health care reports.....	158
Figure 110Product request ui	158
Figure 111Product ui alerts	158
Figure 112Supplier ui 1	158
Figure 113Supplier ui 2	158
Figure 114Stock details ui	158
Figure 115Update products ui.....	158
Figure 116Report admin ui	158
Figure 117Report product summary popup	158
Figure 118Price calculator ui	158
Figure 119Stock details alert	158

Table of content

Table 1US_BuyProduct from store	18
Table 2 US_AddProduct to store	20
Table 3US_Add new course	21
Table 4US_Update course	22
Table 5US_Addnew vacancy.....	25
Table 6US_Apply for vacancy.....	28
Table 7US_Add report	30
Table 8US_SearchReport.....	32
Table 9US_EditAdd.....	34
Table 10US_AddnewAdd	35
Table 11US_AddnewEvent	36
Table 12US_RegforEvent	37
Table 13US_AddnewAppoint	39
Table 14US_UpdateBookedAppoint	42
Table 15US_AddsupplierProducts.....	45
Table 16US_GenerateProductReport.....	47
Table 17HighlevelArchitecture	59
Table 18EERDiagram.....	61
Table 19Store Add new products test	81
Table 20 Add course Test Case.....	83
Table 21Ipdate course test case.....	85
Table 22Update course test case	86
Table 23Lab Test Cases	88

Table 24LandSaleManagement Test Case3	92
Table 25Career Management System Testcase – Add new vacancies test case	94
Table 26Apply for vacancies testcase	96
Table 27Add new Events Mangement Test case	97
Table 28Register for events test case	100
Table 29Healthcare Test Case.....	102
Table 30WholeSale Testcase	104

Abstract

AgroTech LLC is an agricultural company which is situated in Romania. They provide agricultural-related services and products and act as an intermediary between the farmers and the customers. So, they needed a system to fulfil their daily business needs. They had needs like selling items online, providing laboratory services, healthcare services for animals, lands sale services, managing jobs and listings related to agricultural field, and event and funds planning, and knowledge sharing to interested parties who love to learn about agriculture. After gathering requirements, we decided to create a big system with isolated sub system for each business needs mentioned in the above. After that we chose Node as our backend and used Mongo dB as the database. After some research we chose React as the front-end library to make the application more user friendly and developed and distributed this application to our client.

Introduction

Agrotec LLC is an agricultural company which is situated in Romania. They provide agricultural-related services and products and act as an intermediary between the farmers and the customers. So, they needed a system to fulfil their daily business needs. They had the following business requirements.

- Selling their agricultural products
- Selling agricultural products in larger quantities to enterprise level customers.
- Providing laboratory services for hotels and other businesses.
- Healthcare services for animals.
- Lands sale services to sell properties.
- Managing jobs and listings related to agricultural field.
- Event and funds planning for farmers
- A knowledge base to share knowledge to interested parties who love to learn about agriculture.

When they chose us, they used to use manual processes to do the above task and the main problem they had was not having a central system to manage all of those. Below are some other problems we found after we talked to them and their stakeholders, they had the following problems as well.

- Not having a proper way to connect farmers and regular customers and the other parties on their business scope and they were looking for some online way to sell products for regular customers.
- They had to spend a lot of time when they connect with enterprise level customers and manage their orders.
- Lot of data redundancy was there because when they do those things manually, they used lot of excel sheets and some other documents to store their information manually.
- Due to those things they had to hire some additional employees to manage all these business operations and so they had additional operational costs.
- Since they were used manual process, they had to spend lot of time to update documents and manage transactions.

Above those were the main problems they had, and they were looking for a central system or some proper automated way to manage their business needs.

Project Scope

During our feasibility study while we were gathering our information and after some business meetings and some discussions with the stakeholders, we found that their main requirement was to create a central system to manage their daily business needs. First, we thought to create a central system with all above functionalities but during our feasibility study we found that isolated subsystems will be the best solution to their business type because then we can create subsystems with specific requirements only applies to each subsystem. Since this is a big company after the development also these subsystems are easy to maintain and when multiple developers work on the implementation they can work on their isolated part and when we see this with their customers perspective, we were able to redirect their customers to the place what they are looking for directly.

Following are the subsystems we implemented.

An online Ecommerce Site to sell products online

Inside this function we implemented an online eCommerce store where the company can sell products online. Customers can directly visit the application and check the products available, and they are able to sort products by categories. After sorting they can search for the product, they are looking for directly and through that we will be able to save their time. After that if the customer is interested in that product, he can enter the quantity they need to buy and after that they can place the order with their shipping information. After they confirm the order, the customer can pay for that order online and the status of the order will be displayed to the customer after that.

From the admin's perspective admin has privileges to add, remove or update the products in the database and they can manage orders and payments as well and in addition to that they can generate reports regarding products, orders, and payments.

Land sale Management System

In this function we implemented functionalities of the Cultivated Land sale properties for customers such as add advertisements, update property details, add contact forum to the buyers and after purchase estate, remove it from the list of estates. In this case user can search estates from going through the categories (eg: Bare Land, Coconut land, Cinnamon Land etc), and location (eg: Matara, Rathnapura etc).

The system also facilitates generate report to get number of ads and list of customers who had contacted advertisement in month.

Career Management System

Vacancies Management

This function comes under the main function “Career Management”. The main objective of this function is to make a straightforward way to manage job vacancies.

- Create, Update, Delete and View Vacancies – Admin can create new vacancies according to the company needs and he can post them to the system and update newest details about those vacancies, delete overdue vacancies and view all the details of posted vacancies.
- Register as a Candidate – Any user of our system can register as a candidate for jobs by filling an application form. When the application form is filled, he become a registered candidate
- Apply for Vacancies – Users of the system can search for jobs and apply for vacancies by click on the “Apply Now” button. When he clicks on the button he needs to fill and submit an application to apply for a job. This application also includes above mentioned areas, etc.
- Pick Candidates – This is an Admin Role. Admin of the system can invite to registered candidates for interview sessions by click on “Call” button who are the best qualified candidates for relevant job roles.

Career Guidance Management

This sub function also comes under the “Career Management” main function. The main objective of this sub function is to make easier way to manage career guidance programs.

- Create, Update, Delete and View Guidance Programs – Admin can create new career

guiding programs according to the needs of the industry and he can post them to the system, update newest details about those programs, delete overdue programs from the system and view all the details of career guidance programs.

- Register for Guiding Programs – Users can register for career guidance programs by submit a form who are looking for career guidance programs in agricultural field.

Report Generation

- The main objective of this sub function is to generate monthly reports of who are the applicants of career vacancies, career guidance programs and who are the registered candidates. And what are the posted job vacancies and career guidance programs

Lab Management System

The lab management system is the Laboratory technician view, In this, reports are provided to the hotels, As an example, hotels can send water samples that want to get checked and After that checking procedure, The Laboratory technician will upload that lab report to the web application and also can edit and delete that report, also if wants can read specific lab report details and search lab report by company name Laboratory technician can download a report with all reports currently in the database. As a result, users will be able to get their lab reports online.

Here users can search and find their report by company name. If the user wants they can download the lab report as a PDF.

Event Management System

This function is to manage a farmer's support portal based on agriculture. The main sections of this function are events management and loans.

Under events management, upcoming events, meetings, crop protection exhibitions, webinars, other types of events covering current trends and new findings in agriculture.

The manager allows to create events, update and view events' details, and delete old events.

All events are listed with the venue, about the event, date, and time.

Each event is listed on the event home page. The system allows customers to see details of

events and join buttons link to the register for the events.

It also allows you to search for events by using their names.

A customer must fill out a form to register for the upcoming events.

Following details should be filled,Full Name, Contact No,Email,Address,No of guests.

The system will also allow to view the loan page for the customers as well.

Customers can register for the loan through a loan registration form.

On the other hand the system will check applicants' eligibility using certain conditions and generate a report.

A customer is allowed to view the eligible list of loans by downloading the eligible list report. and also this function allows the system administrator to delete the registration details from the data base.

Product Management System

This function includes product management functionalities. Product manager can get product requirements from company. Company must request their products through the system by fill a form. This form includes some details. Product manager can buy products from supplier. Product Manager must insert the details of supplies to the system by inserting some details through the system. This process also has a fill a form. This from include following details. Supplier can view a document containing details about their supplies. Product manager can manage the stock. This function also done by Product Manager. According to the company requirement and supplier supplies stocks details are delete and update by product manager. The system also generates a report which given information of supplier and generate a report of stock summary in a week.

Healthcare Management System

This function, each authorized customer can book their own appointment to get their service at their preferred date and time and get a confirmation for the booked appointment. Customers can get appointments (create appointments), view their appointments, and delete their appointments if they want. Customers can search their appointment details by entering their NIC number.

Health Care Manager can view all the appointments by the customers and at the end of the month, admin can generate a report having an analysis about the appointments booked by the customers.

Education Management System

This function is to manage the distribution and allocation of educational resources regarding to agriculture. Anyone who use this function will be the user of this system, it can be a farmer, student or anyone. User can find their courses by the course name and also search their preferred courses by the course name. After users get registered user are eligible to enroll to the courses and refer to the course materials, videos, articles etc. Users are allowed to provide feedback after going through the course.

All these course programs should be registered to the system (add course). The course manager has to get contents and details of courses from the institutes and insert these contents and register them in the system. When registering courses, the course manager should be able to add particular course details to the system are

- Course category
- Course name
- Institute name
- Description
- Course contents

The course manager can update these course programs by their needed. If the course manager wants to remove previous course contents form the system delete function will lead to that. The system will generate summary reports of courses and admin can download the report.

Table 1 US_BuyProduct from store

Number	STORE 001	
Name	Buy an item from the online store	
Summary	User buys a product from the store	
Priority	04	
Pre-Conditions	User needs to be login to the system	
Post Conditions	System will update data related to the payment	
Primary Actor	Store User	
Main Scenario	Step	Action
	1	User logins to the system using email and password
	2	User visits homepage of the store by clicking the link in the navigation bar
	3	Then the user can see the products and they can sort them according to the category or search for the items.
	4	If the user is interested on one particular product then he can click on the that product and he will be redirect to the details page.
	5	After that the user is interested on that item then he can entire the quantity that he want and after that he will be able to go to the order place screen.
	6	In the order placing screen the user will be able to enter the order details and after the user submits the details will be validated and he will be redirected to payment screen.
	7	After that user needs to enter payment details and the payment method that they like to pay.
	8	After that if the details are correct the payment will be go through and the success popup will be displayed.
Extensions	Step	Branching Action
	5.1	If the quantity is invalid then the error message will be displayed.
	6.1	If the details are incorrect an error message will be displayed.
	8.1	If the payment fails then there will be another error message.

Table 2 US_AddProduct to store

Number	STORE002	
Name	Add an item to the store	
Summary	Admin adds a product to the store	
Priority	05	
Pre-Conditions	User needs to be an admin and should be login to the system	
Primary Actor	Store Admin	
Main Scenario	Step	Action
	1	User logins to the system using email and password
	2	User visits store product admin page by clicking the link in the navigation bar.
	3	The he'll will be able to see current products that exists inside the store
	4	There's a add products to store button and when the user clicks it he will be redirected to the product details enter page.
	5	Then the user will enter the product's details and then after that he clicks the submit button
	6	If the details are correct the success message will be displayed to the user.
Extensions	Step	Branching Action
	1.1	If the email and passwords are incorrect an error message will be displayed.
	6.1	If the details are incorrect an error message will be displayed.

Table 3US_Add new course

Number	EM001	
Name	Add new course to the system	
Summary	The course manager enters the course details to the system and add new one.	
Priority	05	
Preconditions	Course manager has logged in to the system.	
Post conditions	The system has been added a new course.	
Primary Actor	Course manager	
Trigger	Course manager has chosen to create new course.	
Main Scenario	Step	Action
	1	Course manager log in to the system using username and password.
	2	Course manager go to the admin console.
	3	Course manager selects the add new course option.
	4	System displays add new course page.
	5	Course manager enter the relevant course details to the add new course form and click submit button.
	6	System validates the entered course details
	7	System displays a successful message that system has been entered the course details correctly.
	8	Course manager redirects to the admin console page and all the newly added courses are displayed in here and all the added details are saved in the course database
Extensions	Step	Branching Action
	1.1	If the username or password is invalid, a. System displays invalid login credentials. b. Course manager enter correct login credentials again.
	6.1	If course manager has entered invalid course details a. System displays error message that course details are not added successfully b. Course manager enter valid course details again.

--	--	--

Table 4US_Update course

Number	EM002	
Name	Update added courses.	
Summary	The course manager updates the course details	
Priority	05	
Preconditions	Course manager has logged in to the system.	
Post conditions	The system has been updated course details.	
Primary Actor	Course manager	
Trigger	Course manager has chosen to update course.	
Main Scenario	Step	Action
	1	Course manager log in to the system using username and password.
	2	Course manager go to the admin console
	3	Admin console displays all previously added courses
	4	Course manager clicks on update option in the course that he wants to update
	5	Course manager redirects to the course update page
	6	System displays the update form with the already existing course details.
	7	Course manager edit the fields the that he wants to update and clicks update button.
	8	System validates the entered course details.
	9	System displays a successful message that system has been entered the course details correctly.

	10	Course manager redirects to the admin console page and the updated course displayed in here and all the details are updated in the course database
Extensions	Step	Branching Action
	1.1 7.1	If the username or password is invalid, a. System displays invalid login credentials. b. Course manager enter correct login credentials again. If course manager has entered invalid update course details c. System displays error message that update course details are not added successfully d. Course manager enter valid update course details again.

Table 5US_Addnew vacancy

Number	CRM001	
Name	Add a new vacancy to the system.	
Summary	The HR Admin enters the details of the new vacancy and then add a new vacancy to the system.	
Priority	05	
Preconditions	The HR Manager must log in to the system.	
Postconditions	The system has been added a new vacancy.	
Primary Actor	HR Admin	
Trigger	The admin has chosen to add a new vacancy to the system.	
Main scenarios	Step	Action
	1	HR Admin logins to the system by using user credentials.
	2	HR Admin visits to the admin console.
	3	HR Admin selects the career management option.
	4	HR Admin displays the career management dashboard.
	5	HR Admin clicks on the vacancies option.
	6	The system displays a vacancies dashboard.
	7	HR Admin clicks on the add new vacancies button.
	8	The system displays a form to enter details of the new vacancy.
	9	HR Admin enters the details of the vacancy and clicks on the add button.
	10	The system saves the added details to the database and displays a successful message.
Extensions	Step	Branching Action
	1.1	<p>If the password or the username is invalid,</p> <ul style="list-style-type: none"> a. HR Admin will be prompted a message regarding the error. b. HR Admin will be prompted to enter the username and the password again. c. HR Admin will be prompted to select the forgot password option.
	9.1	If the HR Admin tries to submit the form with empty fields.

	9.2	<p>a. Admin will be prompted a message regarding the error and to fill those fields.</p> <p>If the admin has not entered the values with the requested format, the system will display the error message regarding that.</p>
	9.3	If the details that has been entered by the admin is not valid, the system displays an error message.

Table 6US_Apply for vacancy

Number	CRM002	
Name	Apply for a vacancy	
Summary	The user enters his details to apply for a vacancy and requested a job.	
Priority	05	
Preconditions	The user must visit the career home page.	
Postconditions	The user has been able to apply for a vacancy	
Primary Actor	User	
Trigger	The user has chosen to apply for a vacancy.	
Main Scenario	Step	Action
	1	The user visits the system home page and clicks on the careers category.
	2	The user visits the career homepage.
	3	The user clicks on the career vacancies card and clicks on the find out more button.
	4	The user navigates to vacancies page.
	5	The user can see posted job vacancies and search jobs by using search bar.

	6	The user selects a job and clicks on apply now button.
	7	The system displays a form to enter details to apply for the job.
	8	The user enters the details and submits the form by clicking on apply now button.
	9	The system displays a successful message.
Extensions	Step	Branching Action

	8.1	<p>If the user not filled required fields and entered invalid mobile number and email and nic.</p> <ul style="list-style-type: none"> a. User will be prompted a message regarding the error. b. User will be prompted to enter the details to unfilled required fields. c. User will be prompted to enter valid email and valid mobile number and nic.
--	-----	--

Table 7US_Add report

Number	LAB01	
Name	Add a new Lab report to the system.	
Summary	The laboratory technician enters the details of the new lab report to the system and adds the new one.	
Priority	01	
Preconditions	The laboratory technician has logged in to the system.	
Postconditions	The system has been added new lab report details.	
Primary Actor	The laboratory technician.	
Trigger	The laboratory technician has chosen to add a new report.	
Main scenarios	Step	Action
	1	The laboratory technician logins to the system using username and the password.
	2	The admin visits to the admin panel dashboard.
	3	The laboratory technician selects the Lab report management option.
	4	The system displays the ALL LAB REPORT DETAILS dashboard.
	5	The laboratory technician clicks to add new lab report details to the system.
	6	The system displays a page to enter the details to the system.
	7	The laboratory technician enters the lab report details to the form and submits.
	8	The system validates the details entered to the system.
	9	The system displays a successful toast message that the system has been entered by the report details correctly.
Extensions	Step	Branching Action

	1.1	<p>If the password or the username is invalid,</p> <ul style="list-style-type: none"> d. Laboratory technician will be prompted a message regarding the error. e. Laboratory technician will be prompted to enter the username and the password again.
		<p>f. Laboratory technician will be prompted to select the forgot password option.</p>
	8.1 8.2	<p>If the Laboratory technician tries to submit the form with empty fields,</p> <ul style="list-style-type: none"> b. Laboratory technician will be prompted a message regarding the error and to fill those fields. If the Laboratory technician has not entered the values with the requested format, the system will display the error message regarding that.
	9.1	<p>If the details that has been entered are not valid, the system displays an error message.</p>

Table 8US_SearchReport

Number	LAB02	
Name	Search Lab report by Company name.	
Summary	The registered user searches the lab report by searching the company name in each field.	
Priority	02	
Preconditions	The User has logged in to the system.	
Postconditions	User Found lab reports relevant to their company.	
Primary Actor	The registered user.	
Trigger	The registered user has chosen to search lab reports.	
Main scenarios	Step	Action
	1	The registered user logins to the system using a username and password.
	2	The registered user visits the Website Home page.
	3	The registered user selects the Lab report option.
	4	The system displays the ALL-LAB REPORT User dashboard.
	5	The registered user clicks to search option to Type the company name.
	6	The system displays all reports according to entered name, in Card view to the user.
	7	The user selects View report button to check full Lab report.
	8	The system Show Full lab report to the user.
Extensions	Step	Branching Action
	1.1	If the password or the username is invalid, <ul style="list-style-type: none"> d. Registered user will be prompted a message regarding the error. e. Registered user will be prompted to enter the username and the password again.

		f. Registered user will be prompted to select the forgot password option.
	6.1	If the Registered user tries to search the name not in report list the card view will be empty fields,

Table 9US_EditAdd

Number	CL001	
Name	Edit existing Advertisement	
Summary	Admin update the details of advertisement	
Priority	08	
Preconditions	Admin has logged in to the system	
Post conditions	The system has been updated the details of advertisement.	
Primary Actor	Land sale management Admin	
Trigger	Admin has chosen to update button	
Main Scenario	Step	Action
	1	Admin login to the system using username and password
	2	Admin visits to the admin home page.
	3	System displays all advertisement in the page.
	4	Admin clicks on edit button in the advertisement he wants update.
	5	System displays the details of that advertisement
	6	Admin edit the relevant details to the form and click submit button.
	7	System validates the entered details.
	8	System displays a successful message that system has been update the Advertisement details correctly.
	9	Admin click on advertisement, and it view all the updated details in the advertisement.
Extensions	Step	Branching Action
	1.1	If username or password is valid, <ul style="list-style-type: none"> a. System will be prompted a message regarding the error. b. Admin can select the forgot password option c. System will be prompted to enter the username and password again.
	6.1	If admin tries to submit the form with empty fields, <ul style="list-style-type: none"> a. System will prompt a message regarding the error and fill those fields.
	7.1	If admin updated with invalid details, system displays an error message that data are not updated successfully.

Number	CL002	
Name	Add new advertisement	
Summary	Admin enters the details to the system and add new one	
Priority	07	
Preconditions	Admin has logged in to the system	
Post conditions	The system has added a new advertisement	
Primary Actor	Land sale management Admin	
Trigger	Admin has chosen to create new advertisement	
Main Scenario	Step	Action
	1	Admin login to the system using username and password
	2	Admin visits to the admin home page.
	3	System displays all advertisement in the page.
	4	Admin clicks on Create New Advertisement button.
	5	System displays a page with a form to enter the details to the system.
	6	Admin fills the relevant details to the form and click submit button.
	7	System validates the entered details.
	8	System displays a successful message that system has been entered the advertisement details correctly.
Extensions	Step	Branching Action
	1.1	If username or password is valid, a. System will be prompted a message regarding the error. b. Admin can select the forgot password option c. System will be prompted to enter the username and password again.
	7.1	If admin has not entered values with requested format, system will display the error.

Table 10US_AddnewAdd

Table 11US_AddnewEvent

Number	APP001	
Name	Add a New Event	
Summary	Admin add a new event to the system.	
Priority	05	
Pre-conditions	Event manager has logged into the system	
Post conditions	New event is added to the system	
Primary Actor	Event Manager	
Trigger	Event manger has chosen to add a new event	
Main Scenario	Step	Action
	1	Event manager log in to the system using login credentials.
	2	Event manger enter to the event admin console.
	3	System displays event admin dashboard.
	4	Event manger clicks on “Add event” button.
	5	System displays add new Event form.
	6	Event manager enters event details and click add event button.
	7	System adds new event to the database.
	8	System displays Event added successful alert message.
Extensions	Step	Branching Action
	1.1	If username or password is valid, a. System will be prompted a message regarding the error. b. Admin can select the forgot password option c. System will be prompted to enter the username and password again.

	8a	System displays event added unsuccessful message.
--	-----------	---

Table 12US_RegforEvent

Number	APP002	
Name	Register for Event.	
Summary	User register for event.	
Priority	05	
Pre-conditions	User has logged into the system and choose events section under farmer support portal.	
Post conditions	User has filled the event registration form and received successful alert message.	
Primary Actor	User	
Trigger	User has chosen to register for the event.	
Main Scenario	Step	Action
	1	System displays login page
	2	User enters login credentials
	3	System displays home page.
	4	User clicks farmer support portal and choose events section.
	5	System display events home page
	6	User clicks on join button in the event card.
	7	User filled the event registration form and click register button.
	8	System adds event registration details to the database.
	9	System displays register successful message.

Extensions	Step	Branching Action
	2a	System displays invalid login credentials
	2b	User enters login credentials again
	7a	If user tries to submit the form with valid phone number and email fields, a. System will prompt a message regarding the error and fill those fields.
	7b	If user has not filled values with requested format, system will display the error message.
	9a	System displays register unsuccessful message.
	9b	User re-filled the event registration form and re-submit.

Table 13US_AddnewAppoint

Number	HAP001	
Name	Add New Appointment	
Summary	Customer makes an appointment	
Priority		
Pre-conditions	Customer has logged into the system	
Post-conditions	Customer has made the appointment and received an appointment added message	
Primary Actor	Customer	
Trigger	Customer has chosen to make an appointment	
Main Scenario	Step	Action
	1	System displays login page
	2	User enters login credentials
	3	System displays home page
	4	User clicks Appointment page
	5	User clicks add new appointment button
	6	System displays add new appointment form
	7	User enters appointment details and click submit button
	8	System adds appointment details to the database
	9	System displays appointment added message
Extensions	Step	Branching Action

	2a	System displays invalid login credentials
	2b	User enters login credentials again
	9a	System displays appointment not added message
	9b	User re-submits the appointment form

Table 14US_UpdateBookedAppoint

Number	HM002	
Name	Update booked Appointment	
Summary	Manager updates the booked appointment	
Priority		
Pre-conditions	Manager has logged into the system	
Post-conditions	Manager has updated the appointment and received an appointment updated message	
Primary Actor	Health Care Manager	
Trigger	Manager has chosen to update the appointment	
Main Scenario	Step	Action
	1	System displays login page
	2	Manager enters login credentials
	3	System displays admin page
	4	Manager clicks Appointment Details page
	5	Manager clicks update appointment button
	6	System displays update appointment form
	7	Manager Update appointment details and click submit button
	8	System updates appointment details to the database
	9	System displays appointment updated message
Extensions	Step	Branching Action

	2a	System displays invalid login credentials
	2b	Manager enters login credentials again
	9a	System displays appointment not updated message
	9b	Manager re-submits the update appointment form

Table 15US_AddsupplierProducts

Number	ITP008	
Name	Add supplier product details to the system.	
Summary	The product manager enters the details of the new product to the system and adds the new one.	
Priority	03	
Preconditions	The product manager has logged in to the system.	
Postconditions	The system has been added a new product detail.	
Primary Actor		
Trigger	The product manager has chosen to add a new product item.	
Main scenarios	Step	Action
	1	The admin logins to the system using username and the password.
	2	The admin visits to the admin page.
	3	The admin selects the Product management option.
	4	The system displays the ALL PRODUCTS dashboard.
	5	The admin clicks to add new product details to the system.
	6	The system displays a page to enter the details to the system.
	7	The admin enters the product details to the form and submits.
	8	The system validates the details entered to the system.
	9	The system displays a successful message.
Extensions	Step	Branching Action

	1.1	If the password or the username is invalid, a. User will be prompted a message regarding the error. b. User will be prompted to enter the username and the password again. c. User will be prompted to select the forgot password option.
	8.1	If the admin tries to submit the form with empty fields,
	8.2	a. User will be prompted a message regarding the error and to fill those fields. If the admin has not entered the values with the requested format, the system will display the error message regarding that.
	9.1	If the details that has been entered by the admin is not valid, the system displays an error message.

Table 16US_GenerateProductReport

Number	PRO002	
Name	Generate the product report for a particular category.	
Summary	The admin has been able to generate the relevant report.	
Priority	04	
Preconditions	The admin has logged in to the system.	
Postconditions	The product report for a particular category has been generated through the system.	
Primary Actor	The System Admin.	
Trigger	The system Admin has chosen to generate the report	
Main Scenario	Step	Action
	1	The admin logins to the system using username and the password.
	2	The admin visits to the admin page.
	3	The admin selects the product management option.
	4	The admin navigates to the ALL-PRODUCTS dashboard.
	5	The admin enters the category name in the search bar.
	6	The products' records for that category will be filtered form the table.
	7	The admin clicks to generate the report.
	8	The report is successfully generated through the system
Extensions	Step	Branching Action

	1.1	<p>If the password or the username is invalid,</p> <ul style="list-style-type: none"> a. User will be prompted a message regarding the error. b. User will be prompted to enter the username and the password again. <p>User will be prompted to select the forgot password option.</p>
	6.1	<p>If the system notifies that the inputs are not in requested input, it will not display nothing.</p>

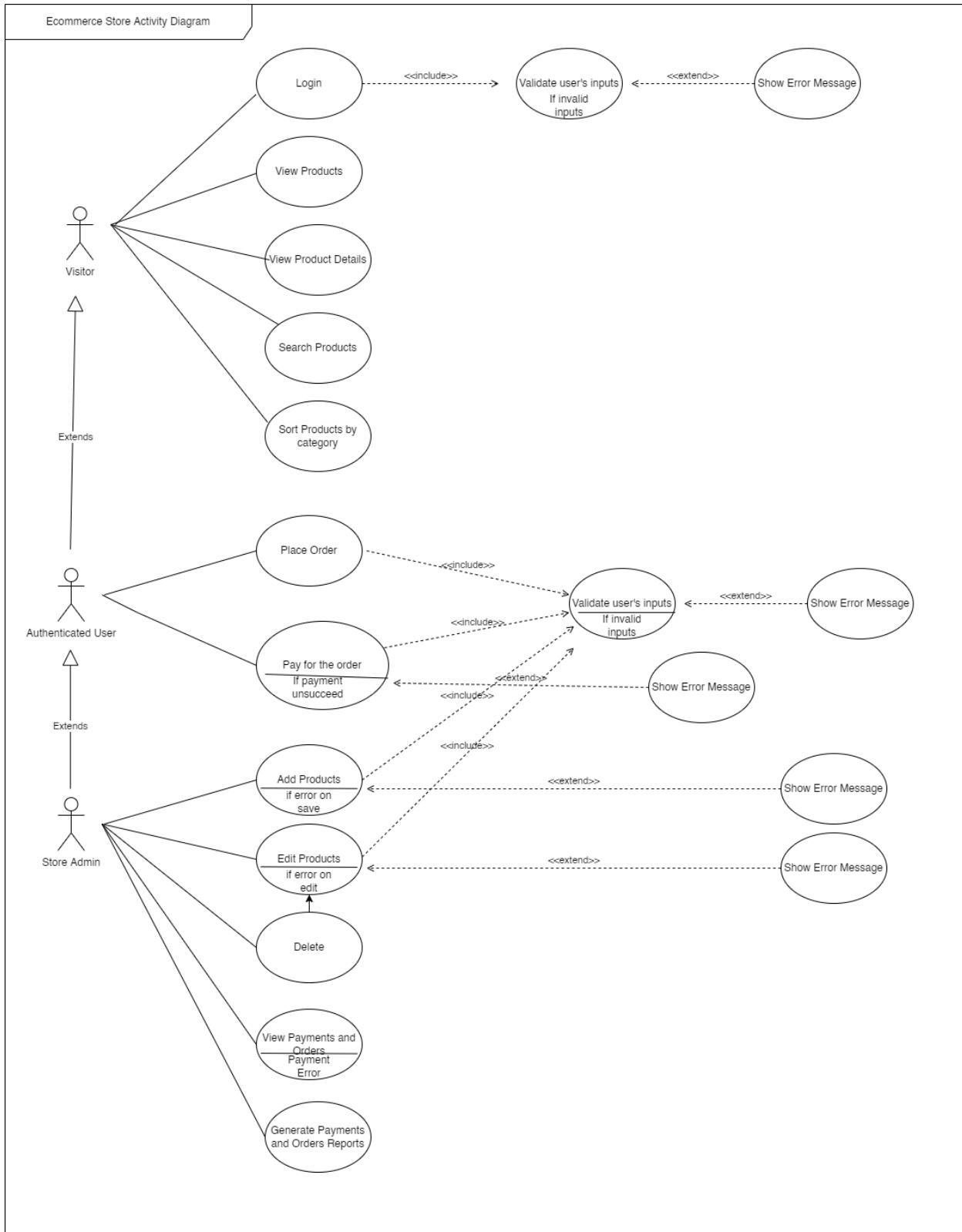


Figure 1 Ecommerce store usecase diagram

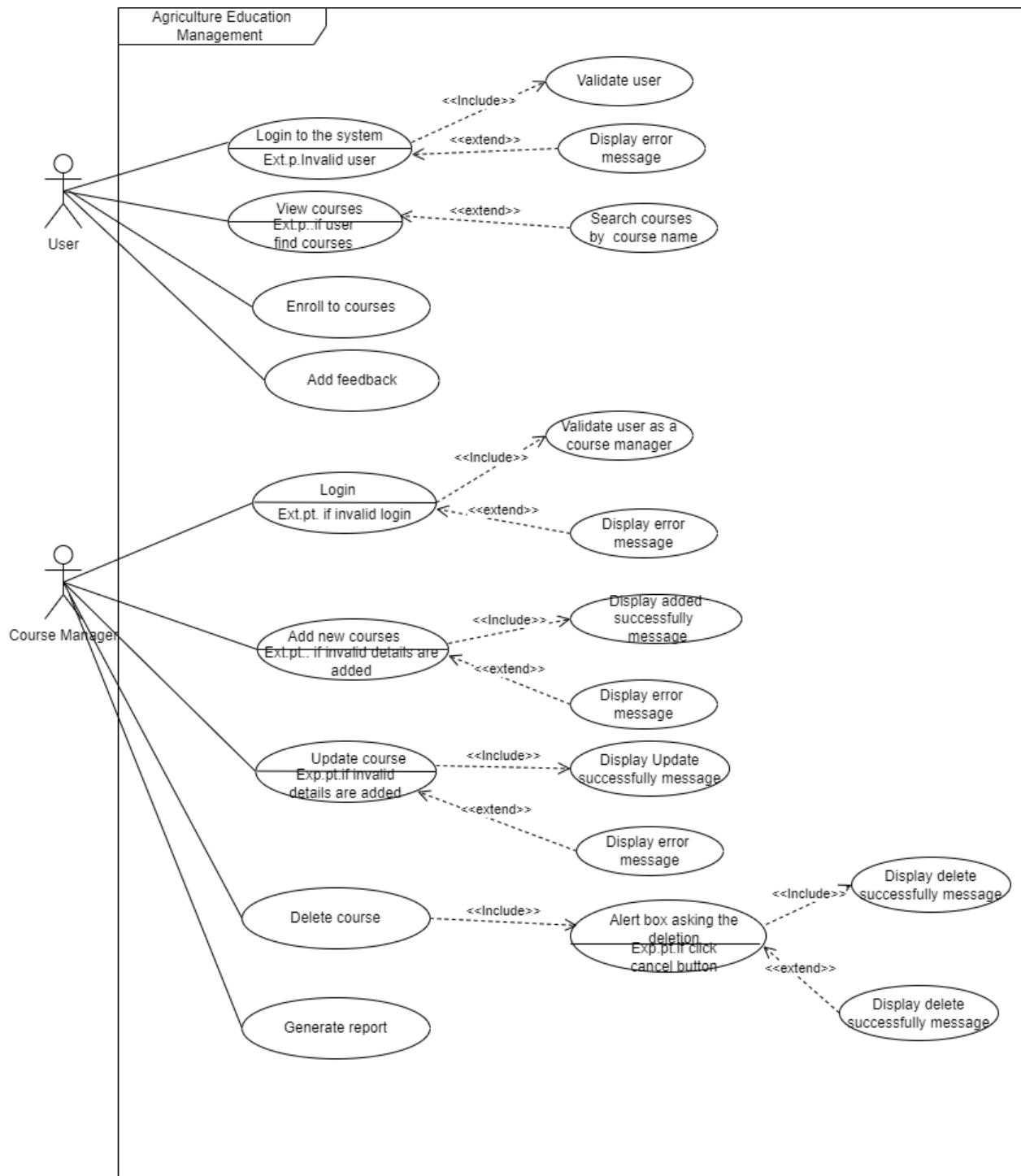


Figure 2 Education management usecase diagram

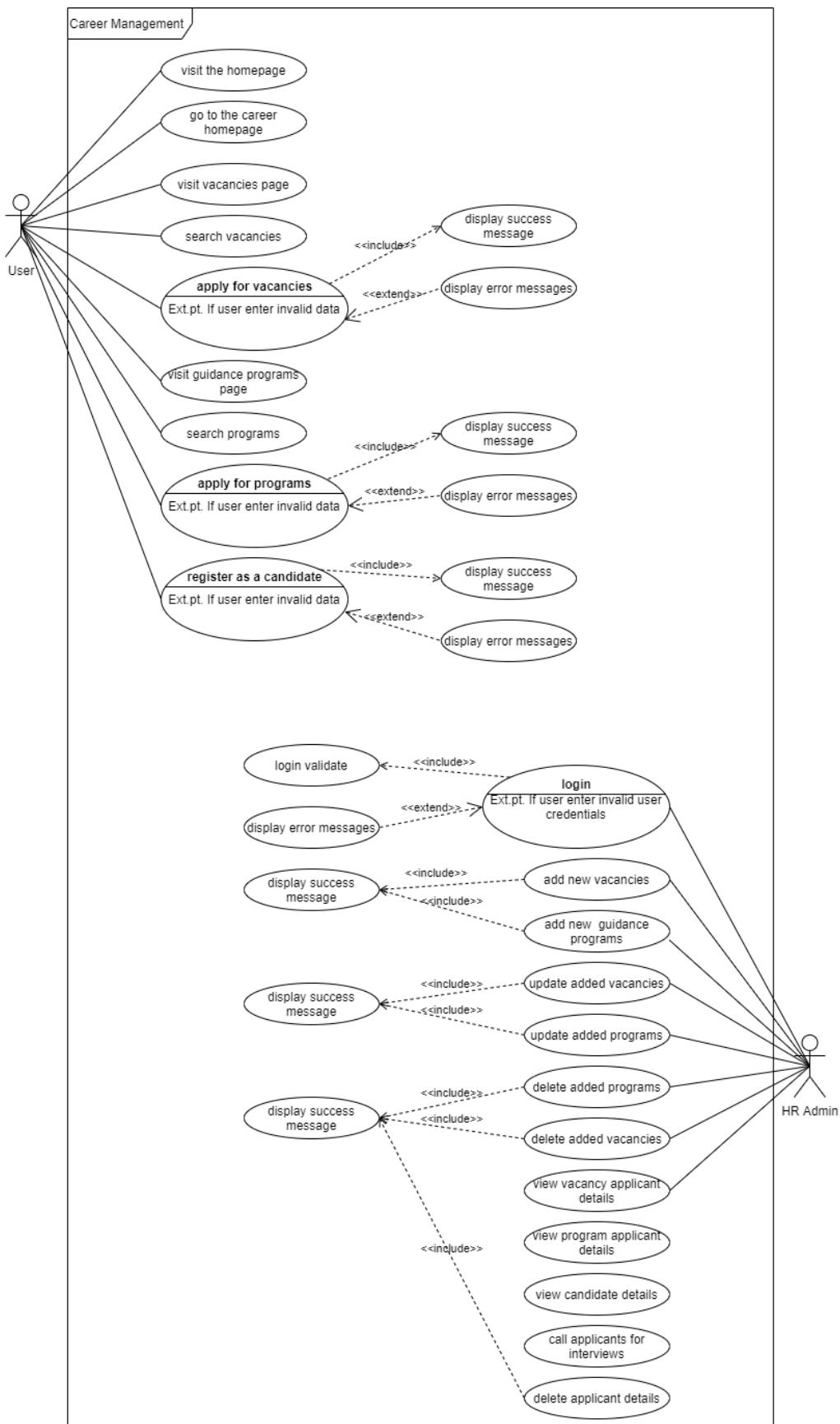


Figure 3Career management usecase diagram

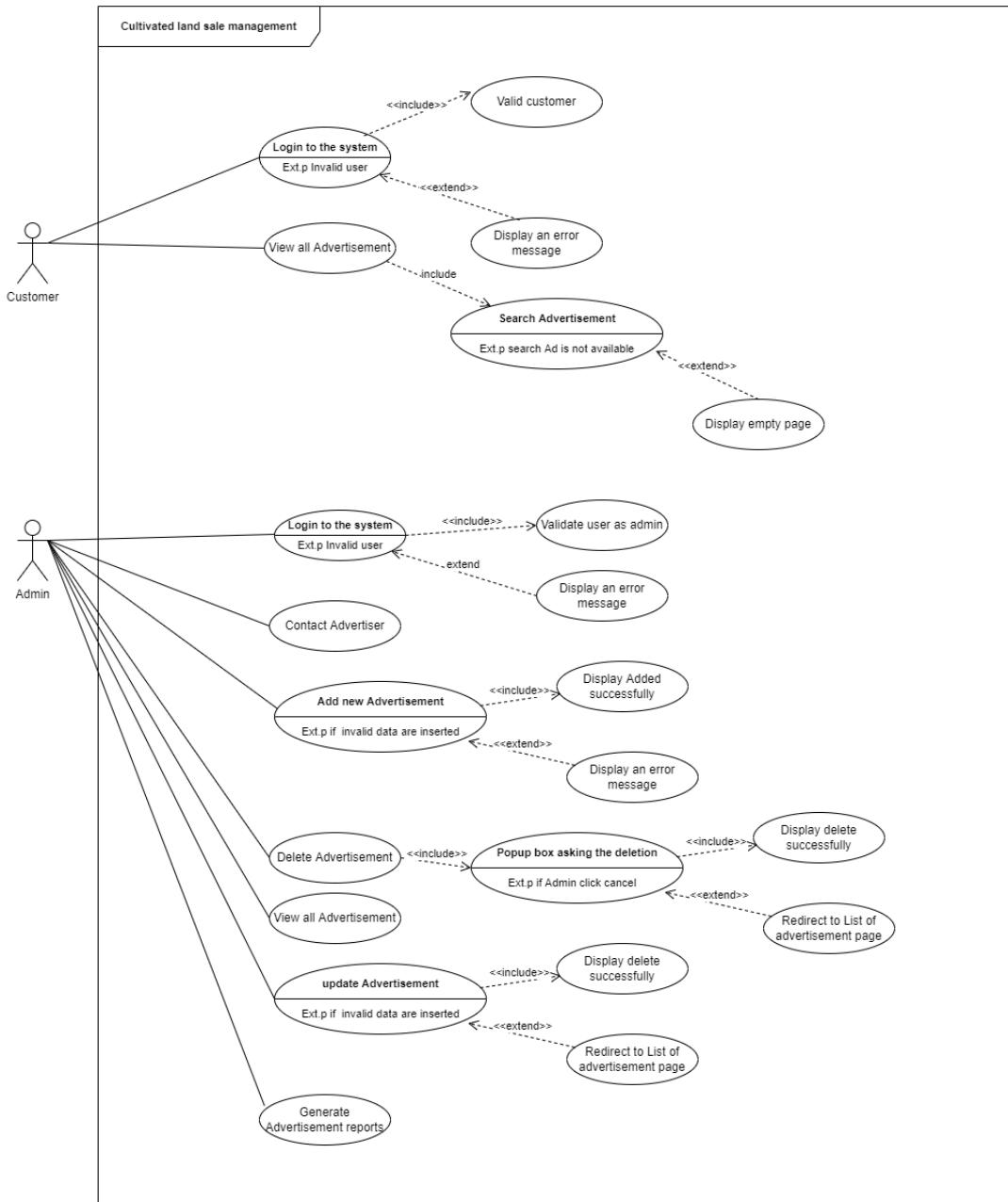


Figure 4Land sale management usecase diagram

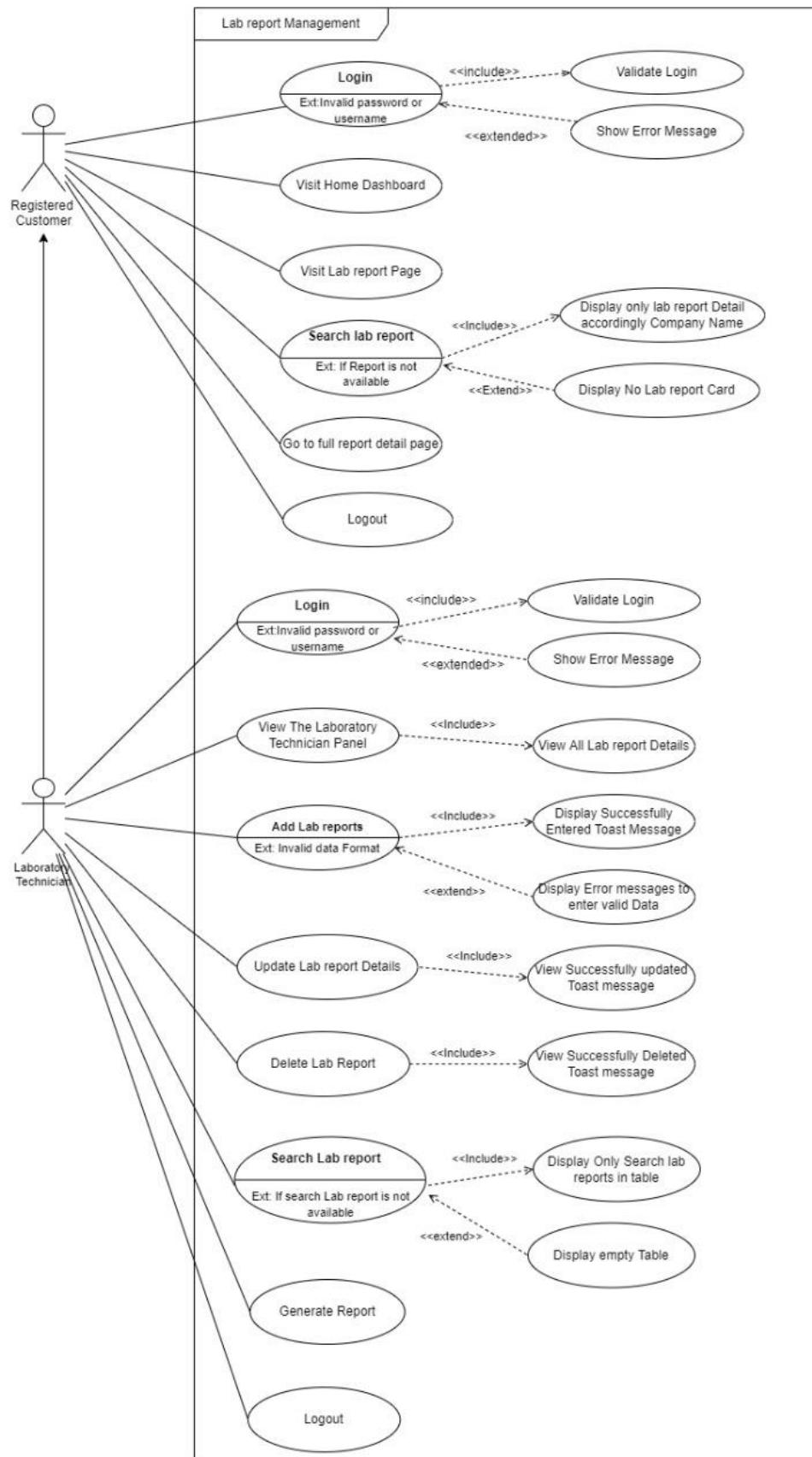


Figure 5Lab report management usecase diagram

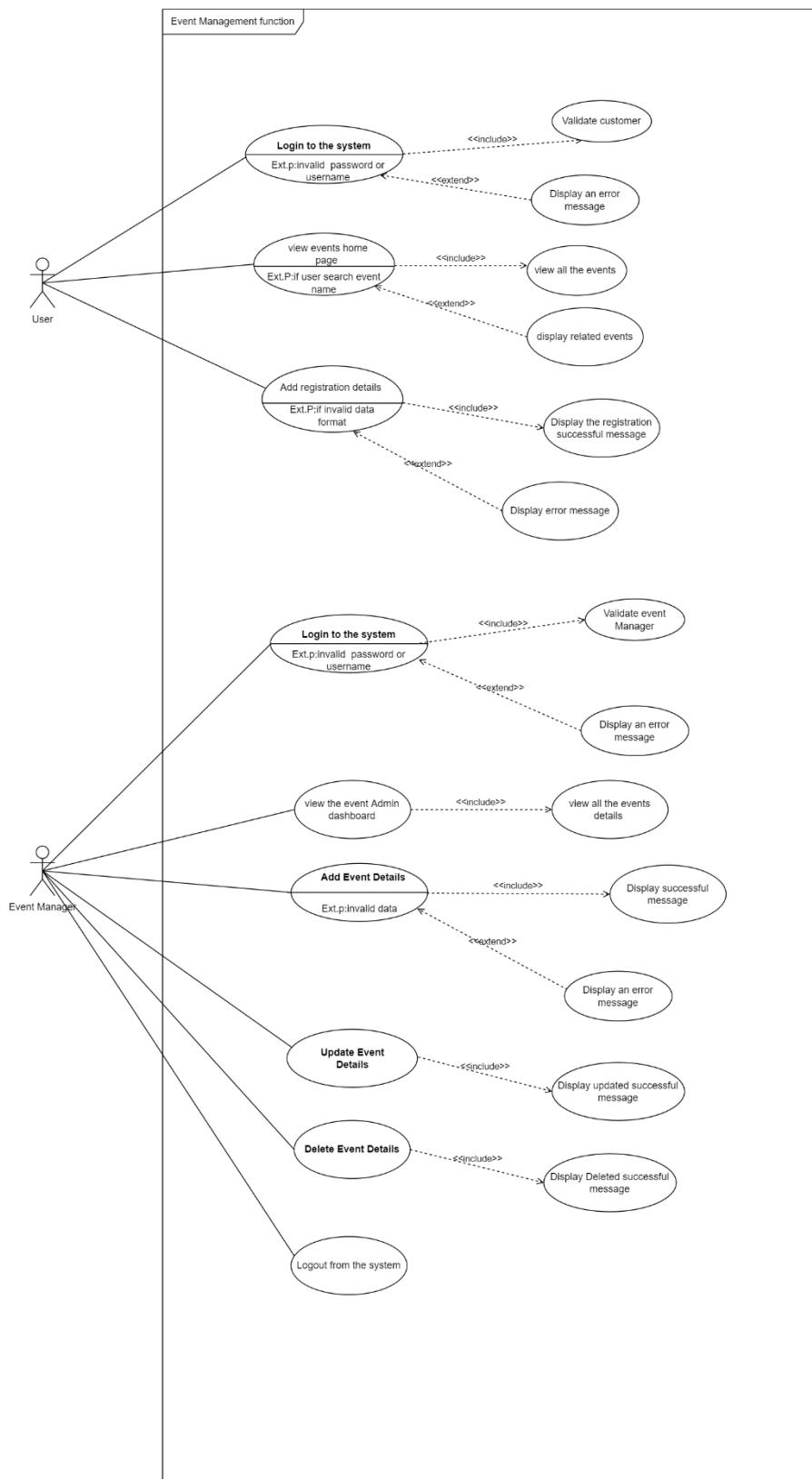
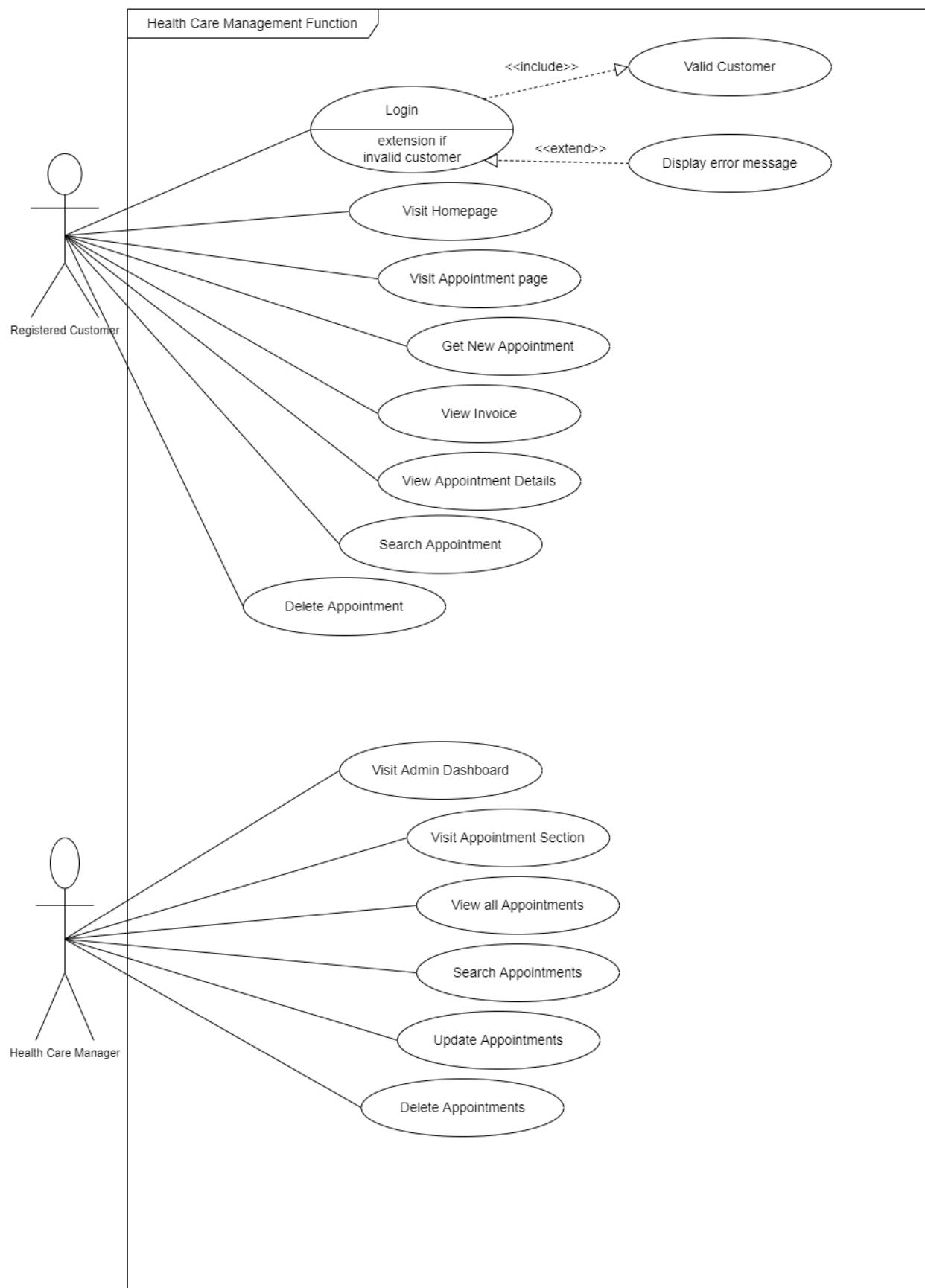


Figure 6Event management usecase diagram



*Figure 7*Health care management usecase diagram

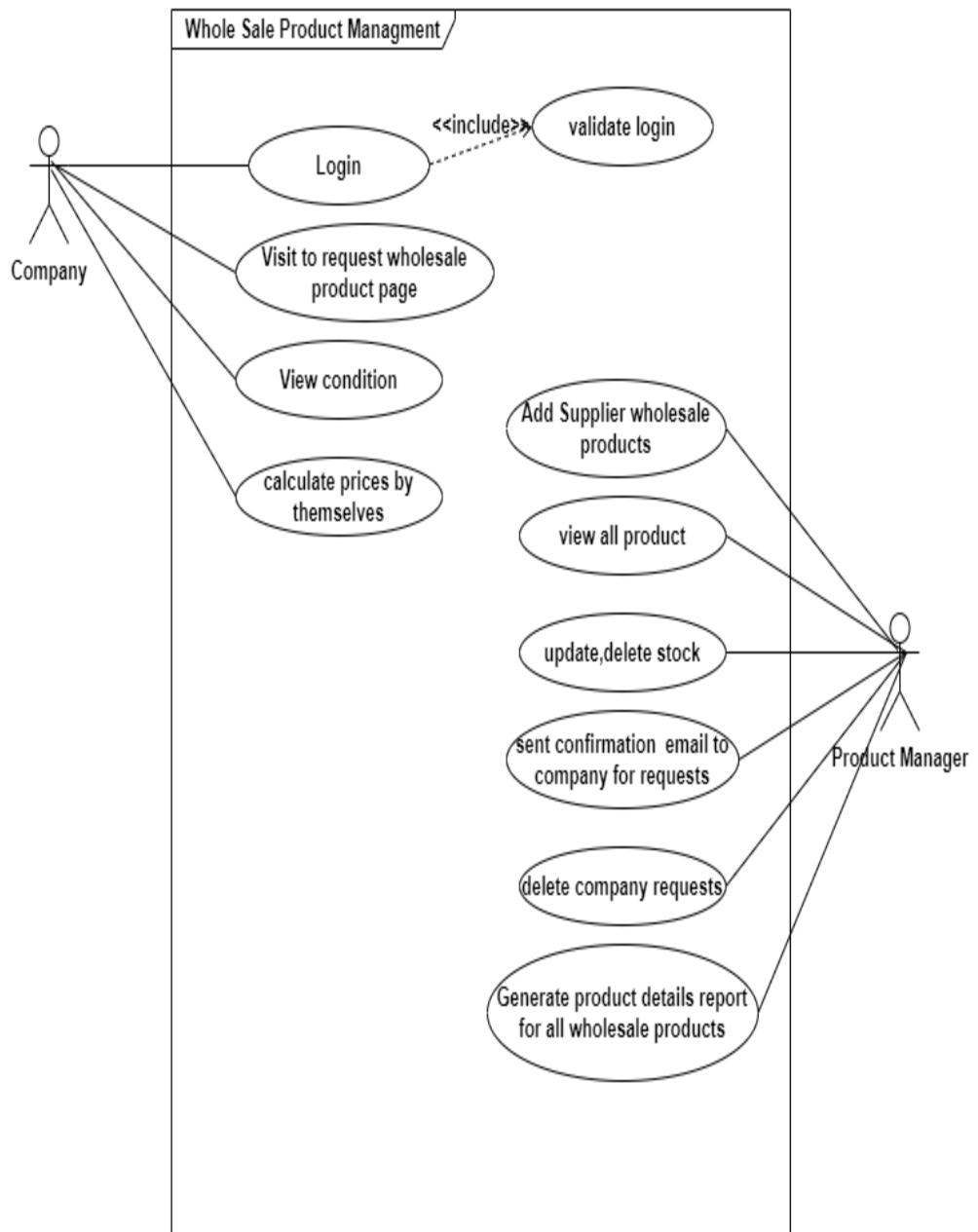


Table 17 HighlevelArchitecture



Table 18EERDiagram

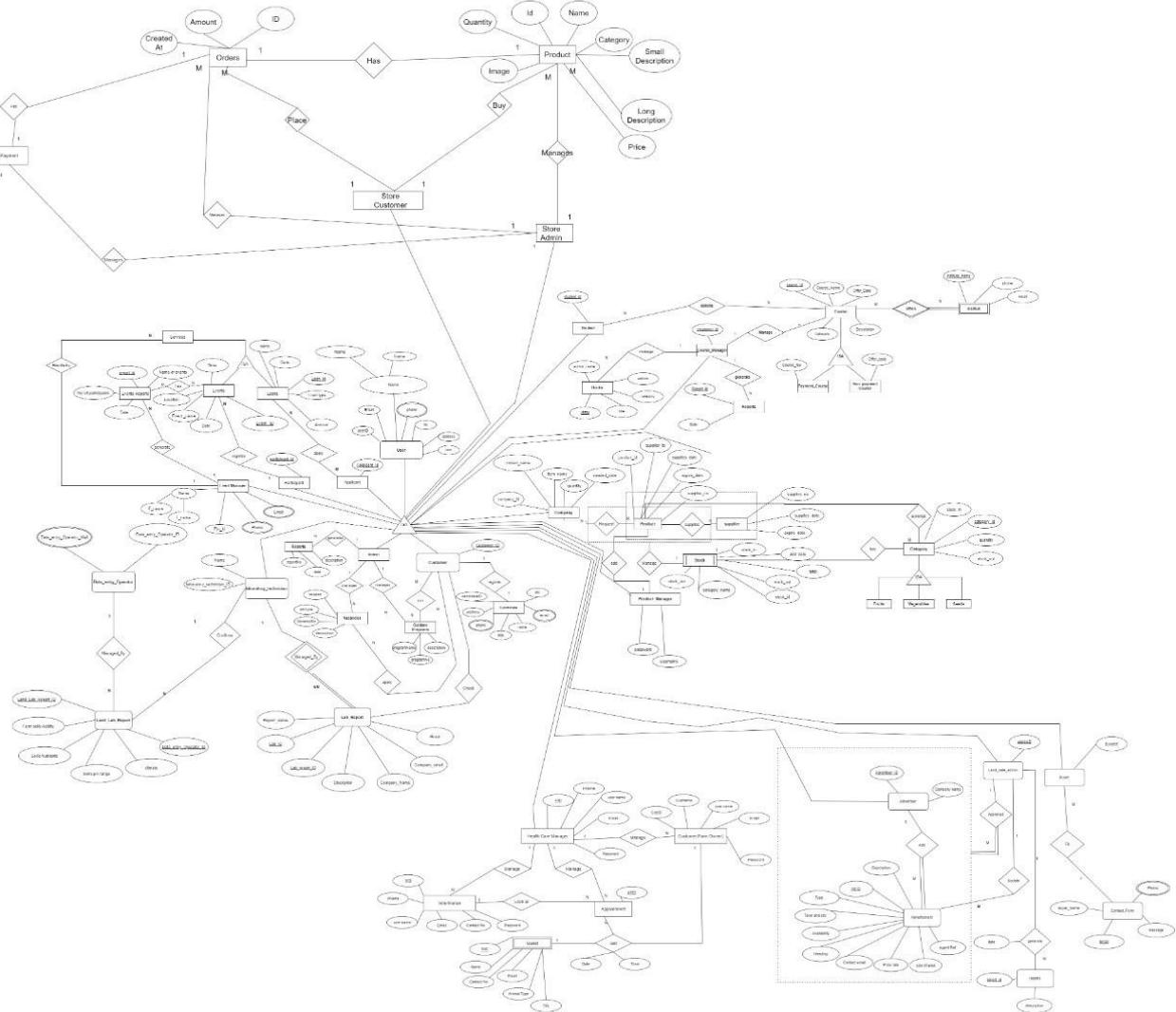


Figure 8 Wholesale management usecase diagram

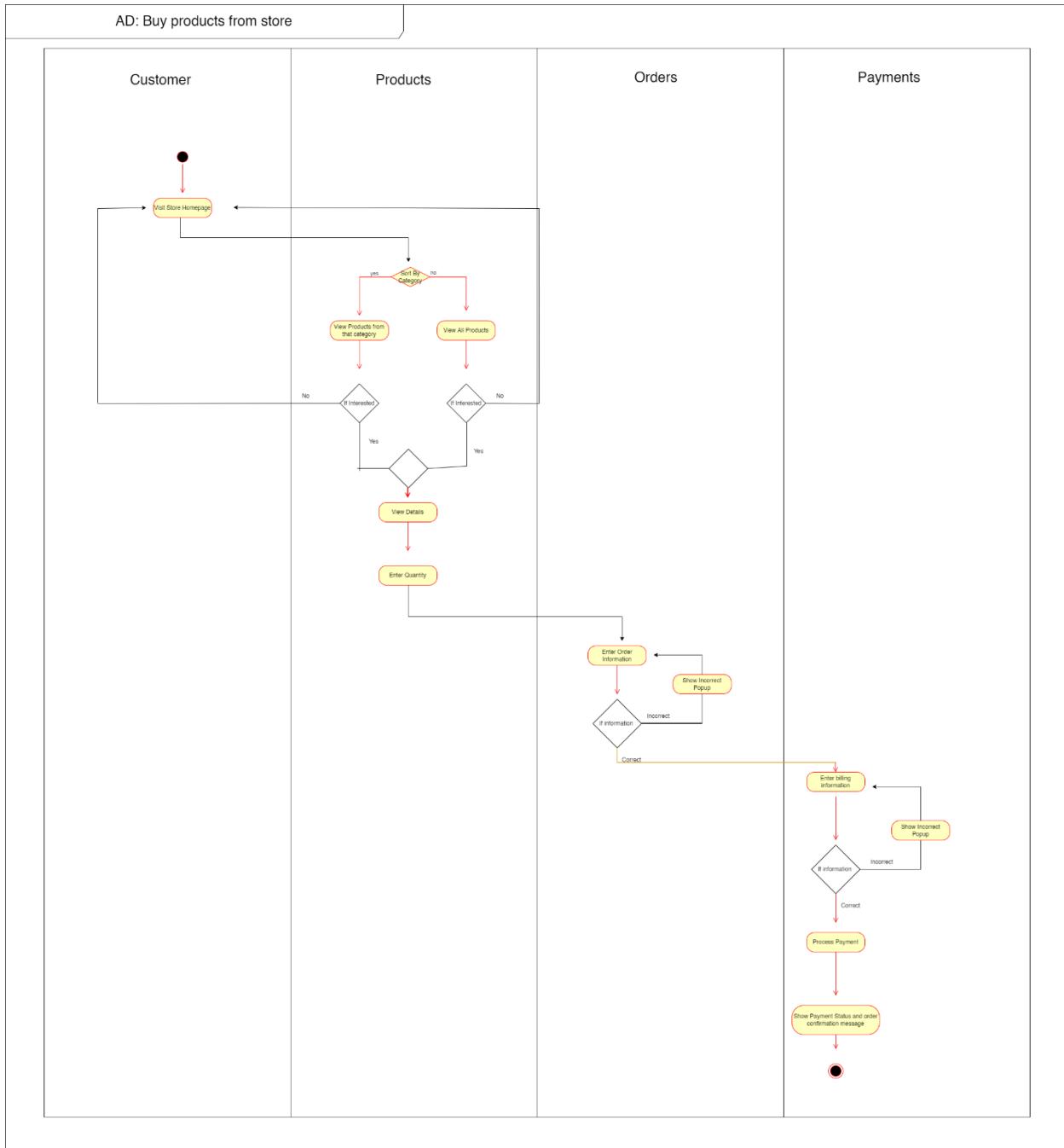


Figure 9Buy product from store activity diagram

AD: Add products to the Store

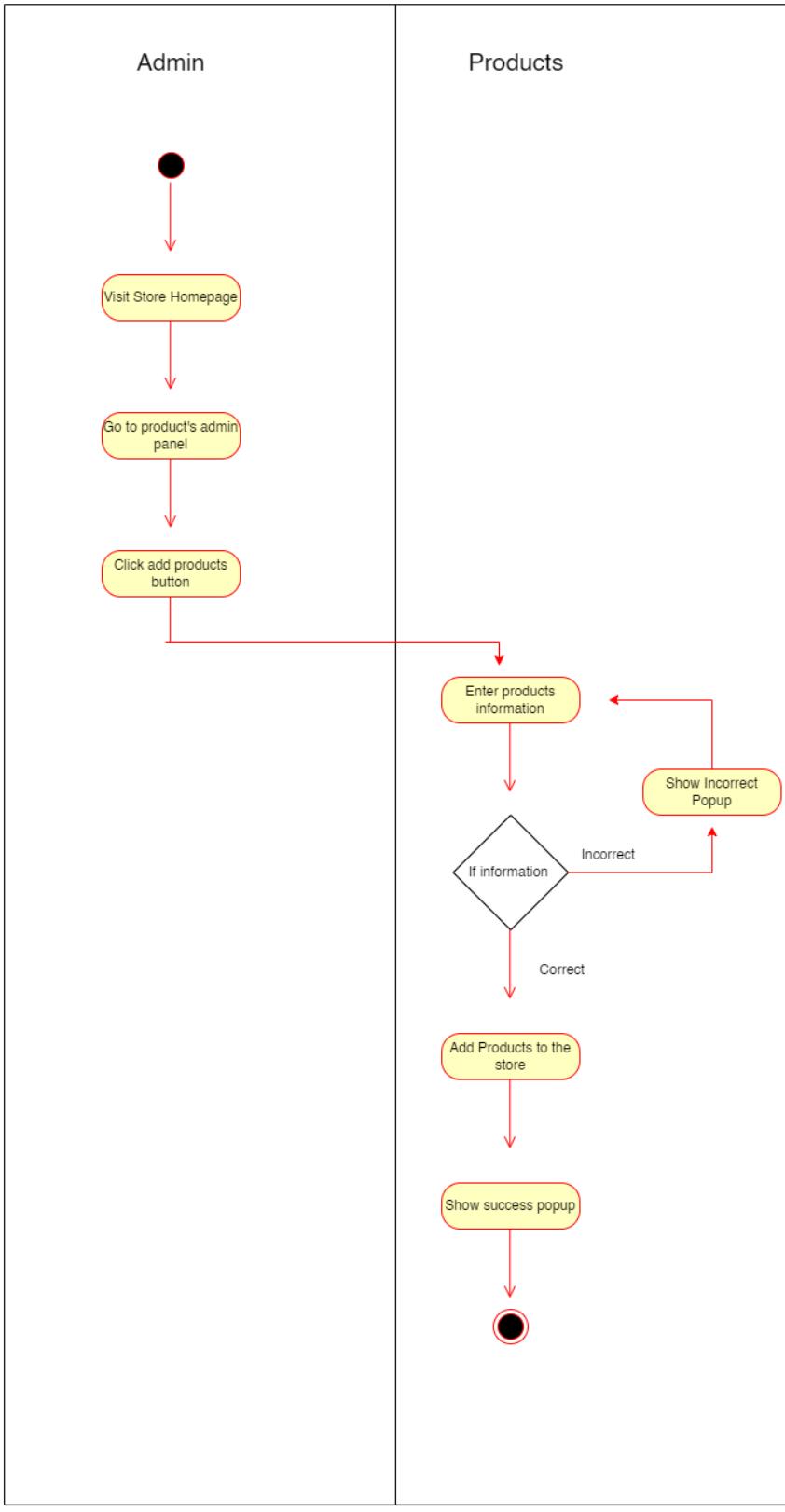


Figure 10Add product activity diagram

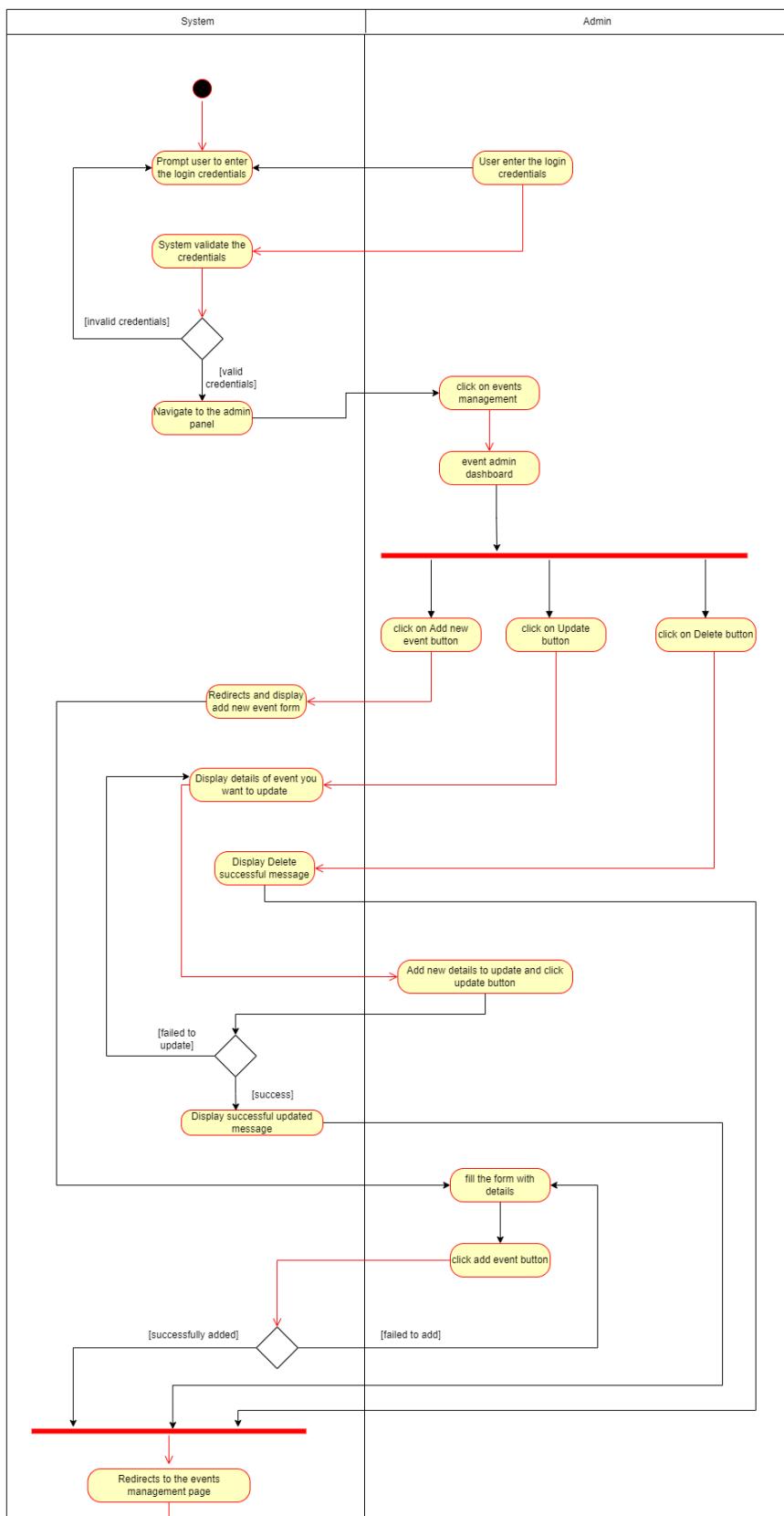
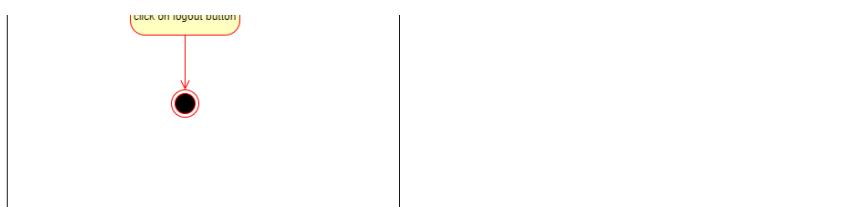


Figure 11Event management Activity diagram



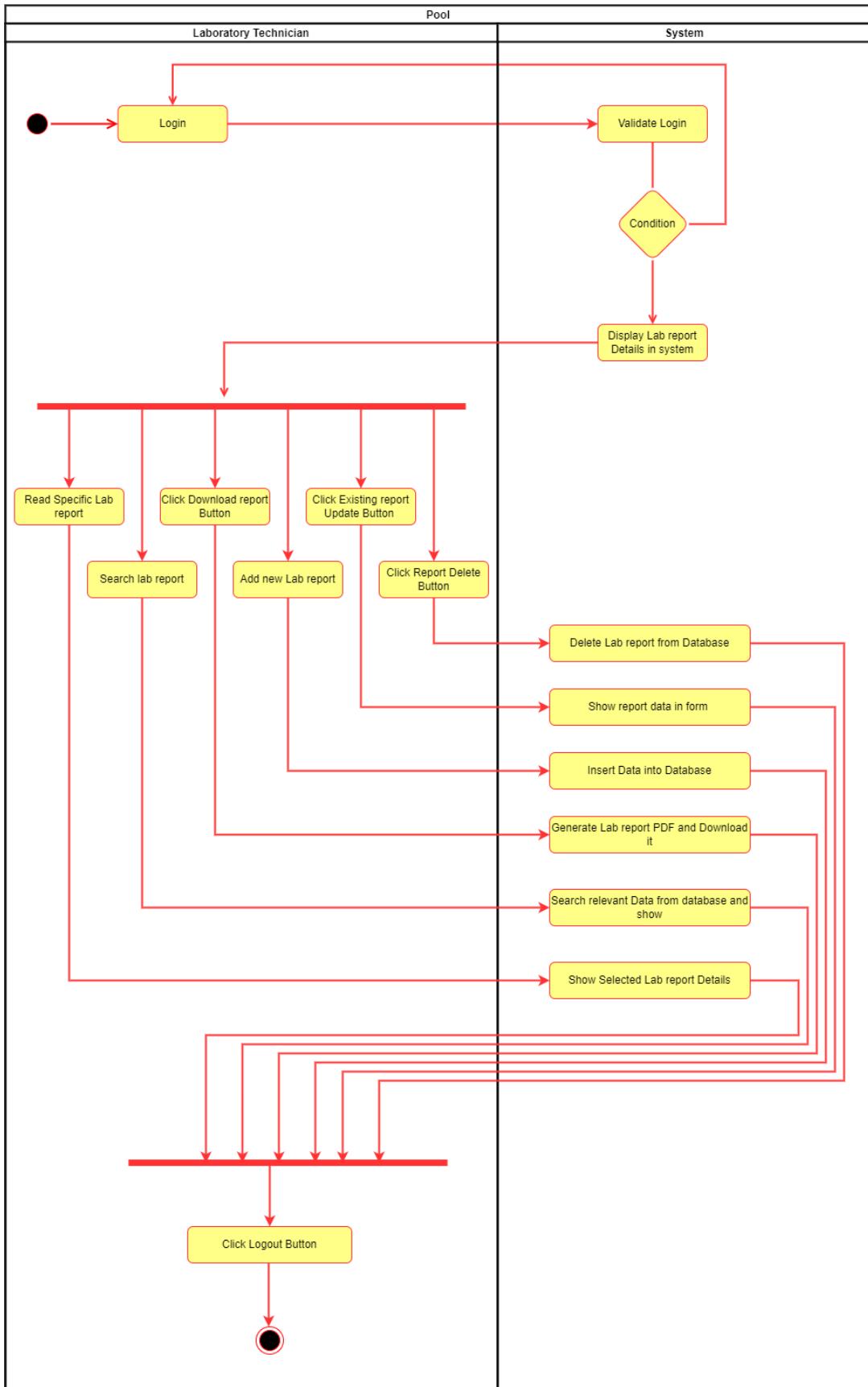


Figure 12 Laboratory management activity diagram

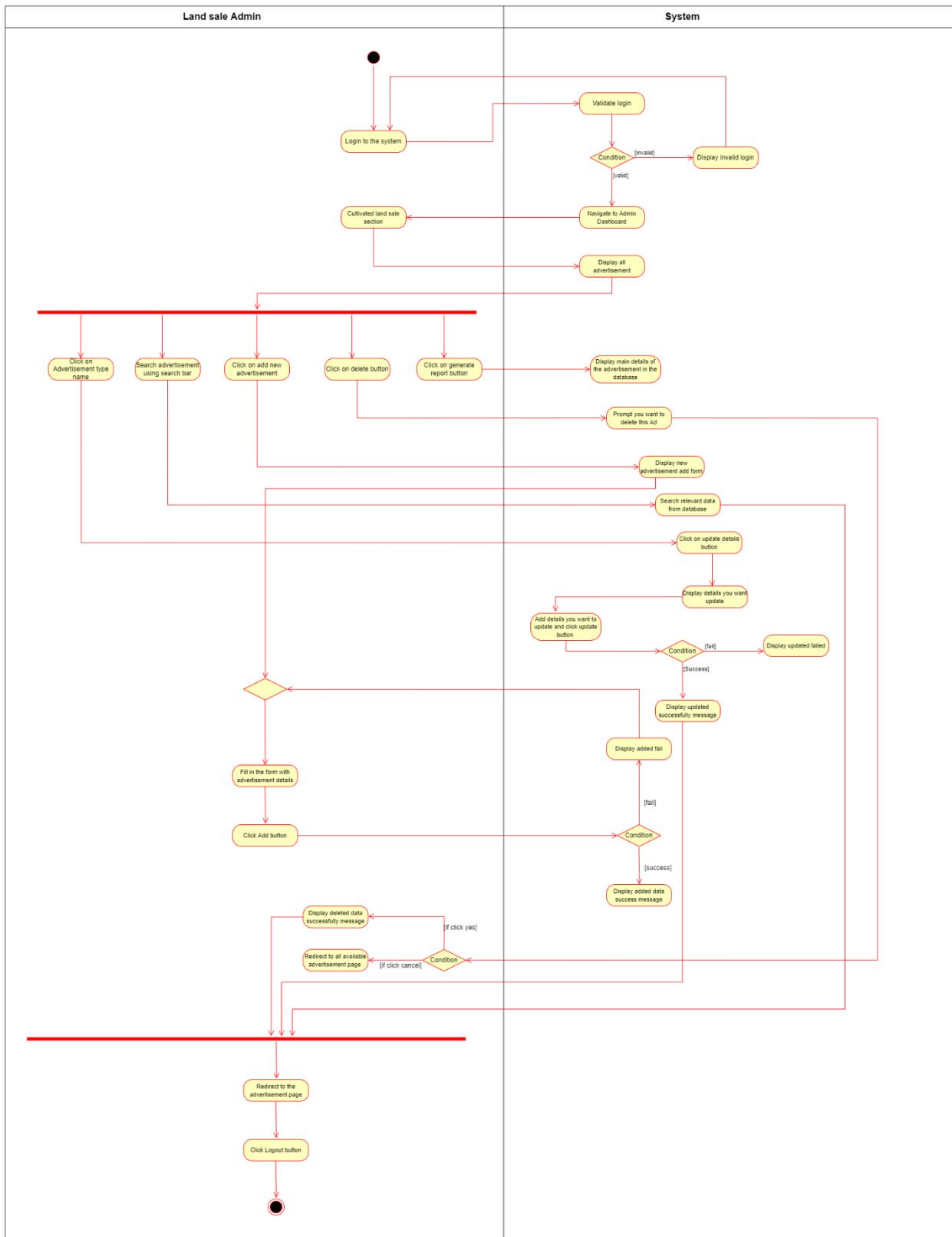
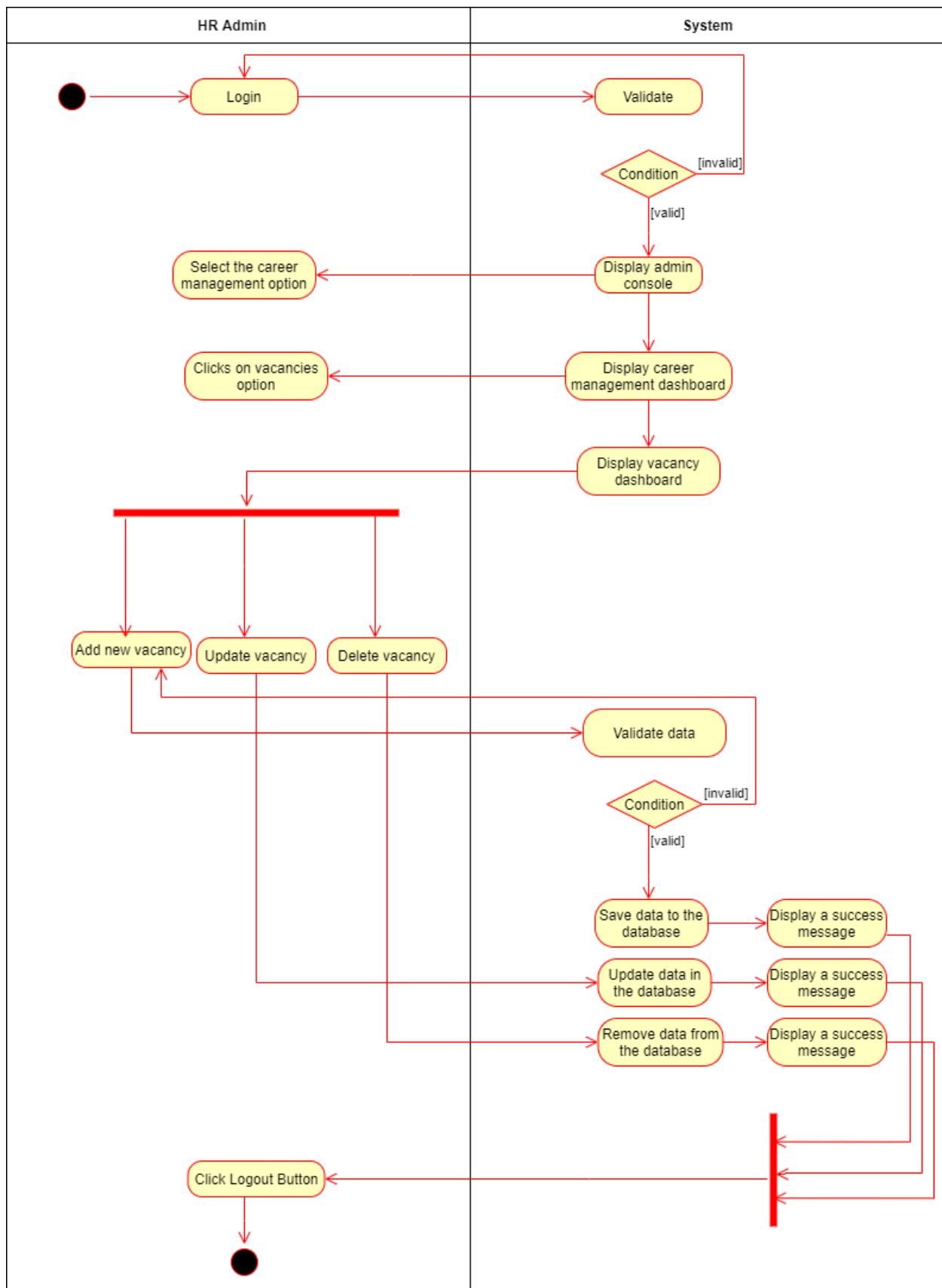


Figure 13 Land sale management activity diagram



*Figure 14*Career management activity diagram

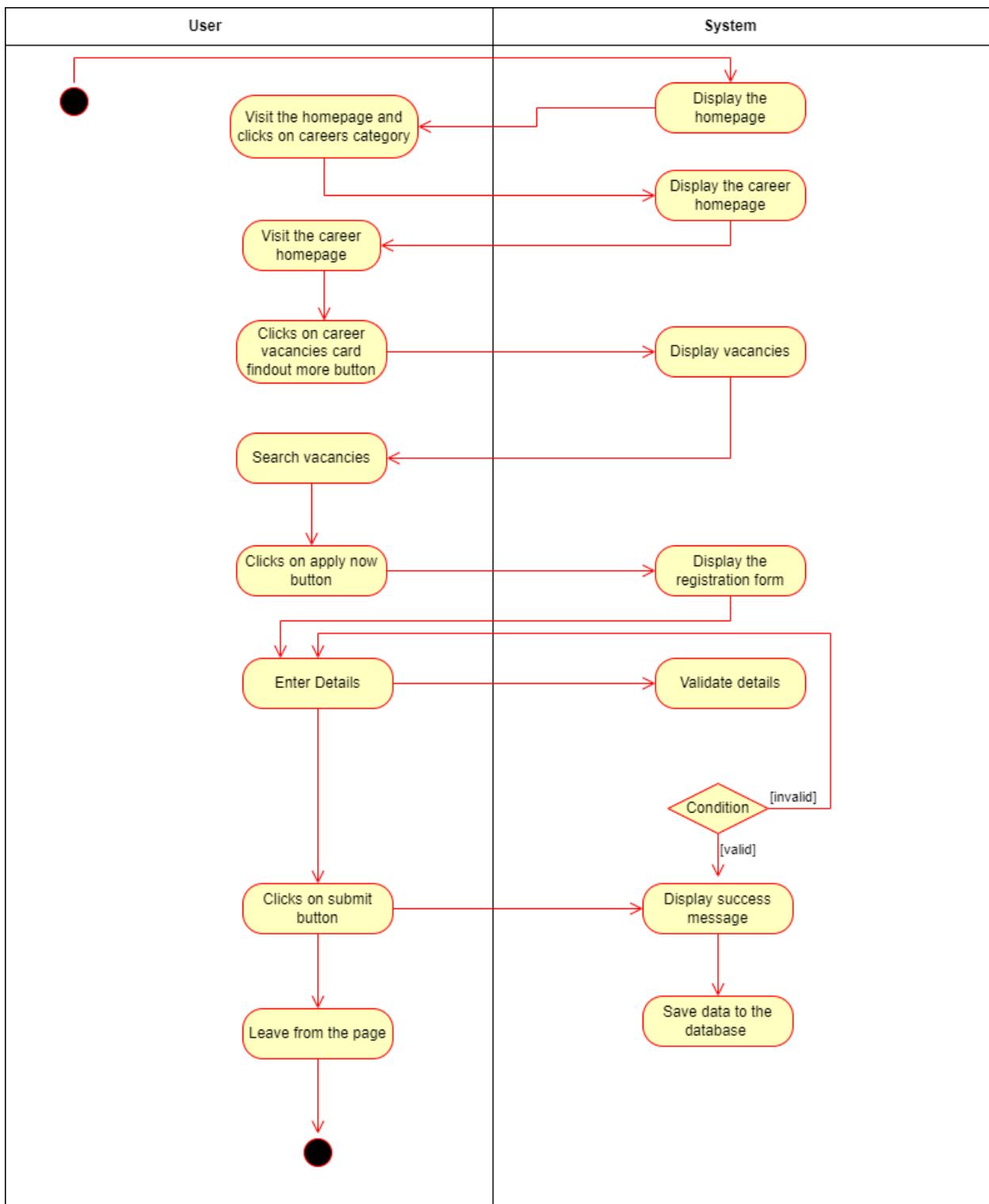


Figure 15vacancy managment activity diagram

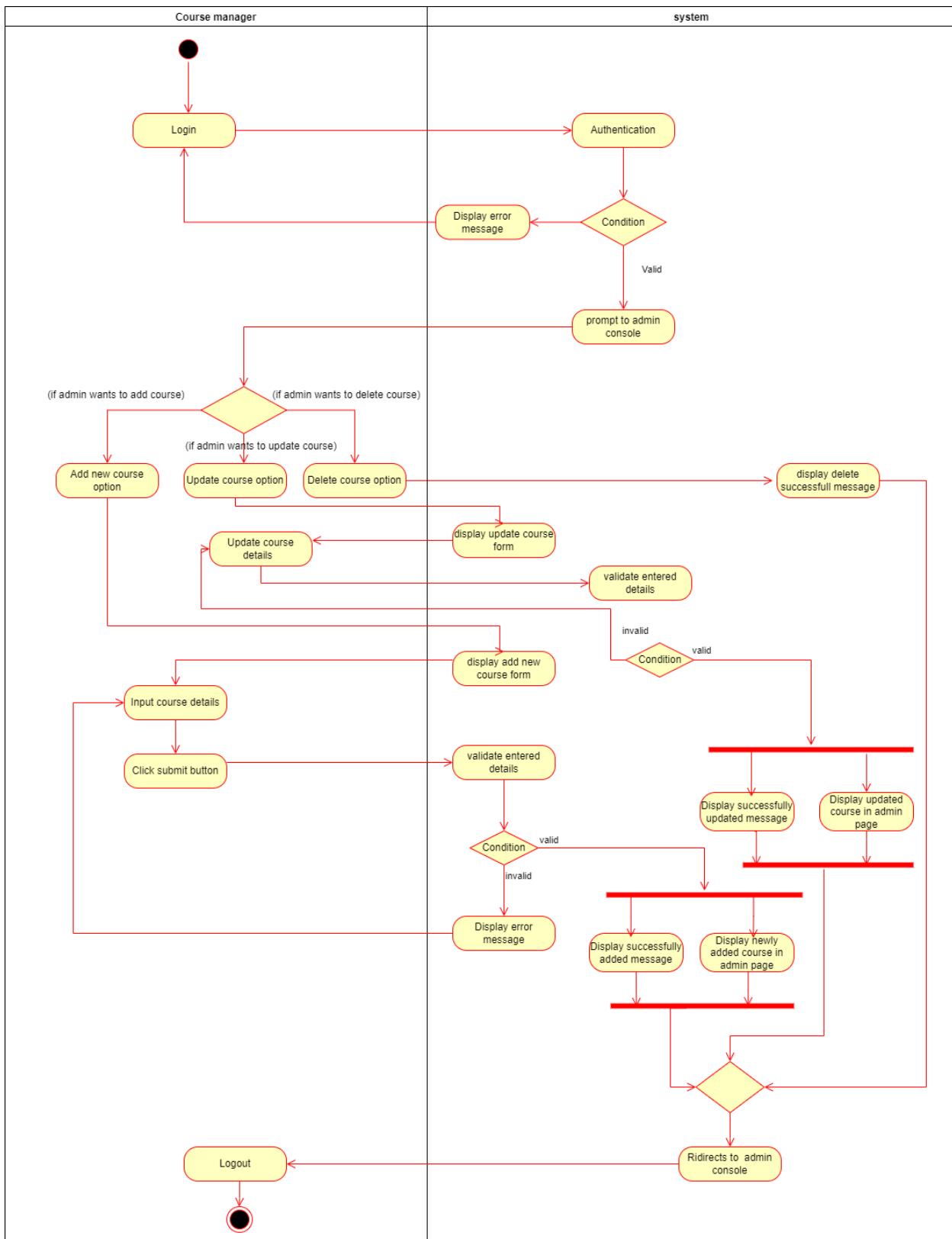
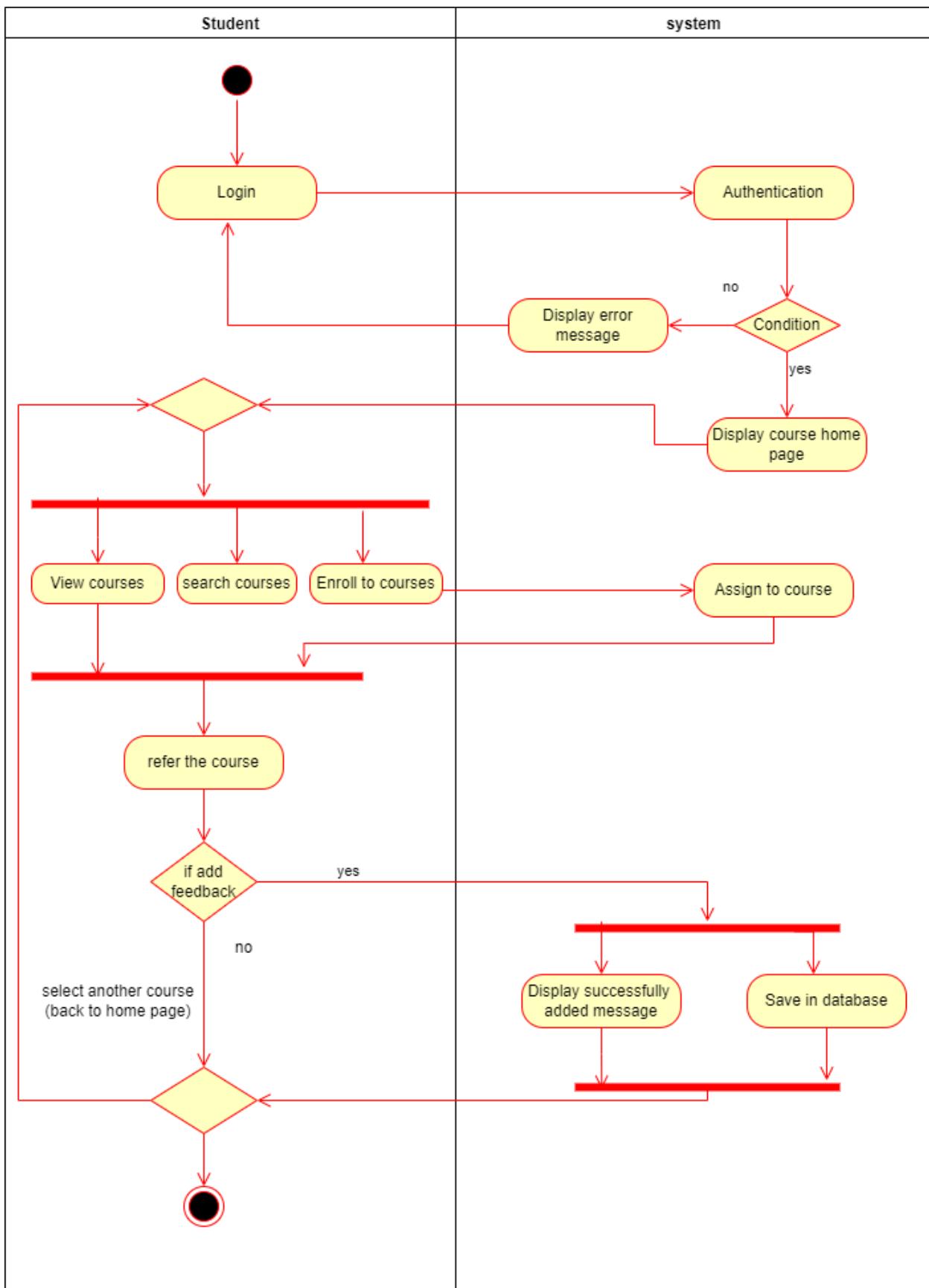


Figure 16course management activity diagram



*Figure 17*course home activity diagram

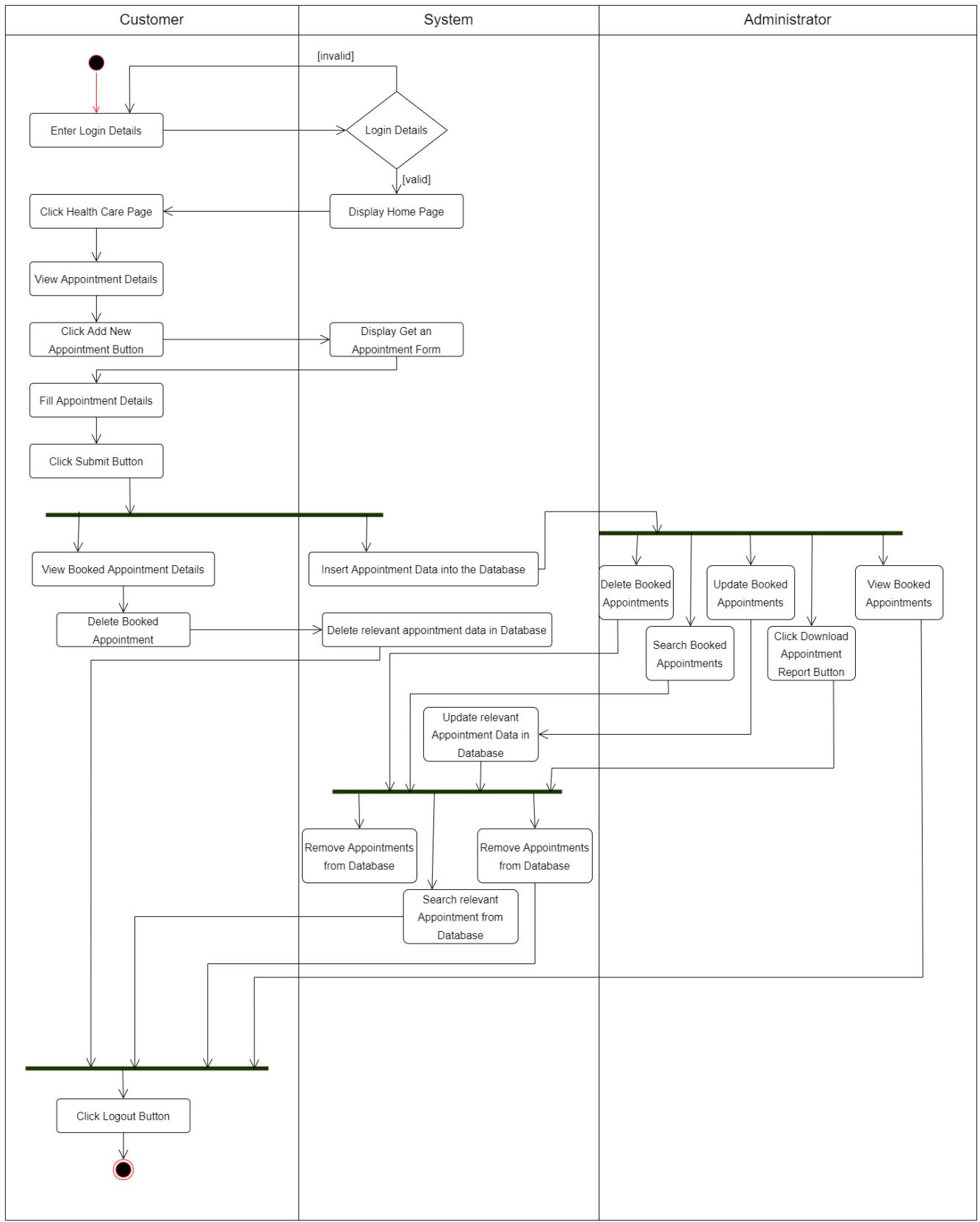


Figure 18Health care management activity diagram

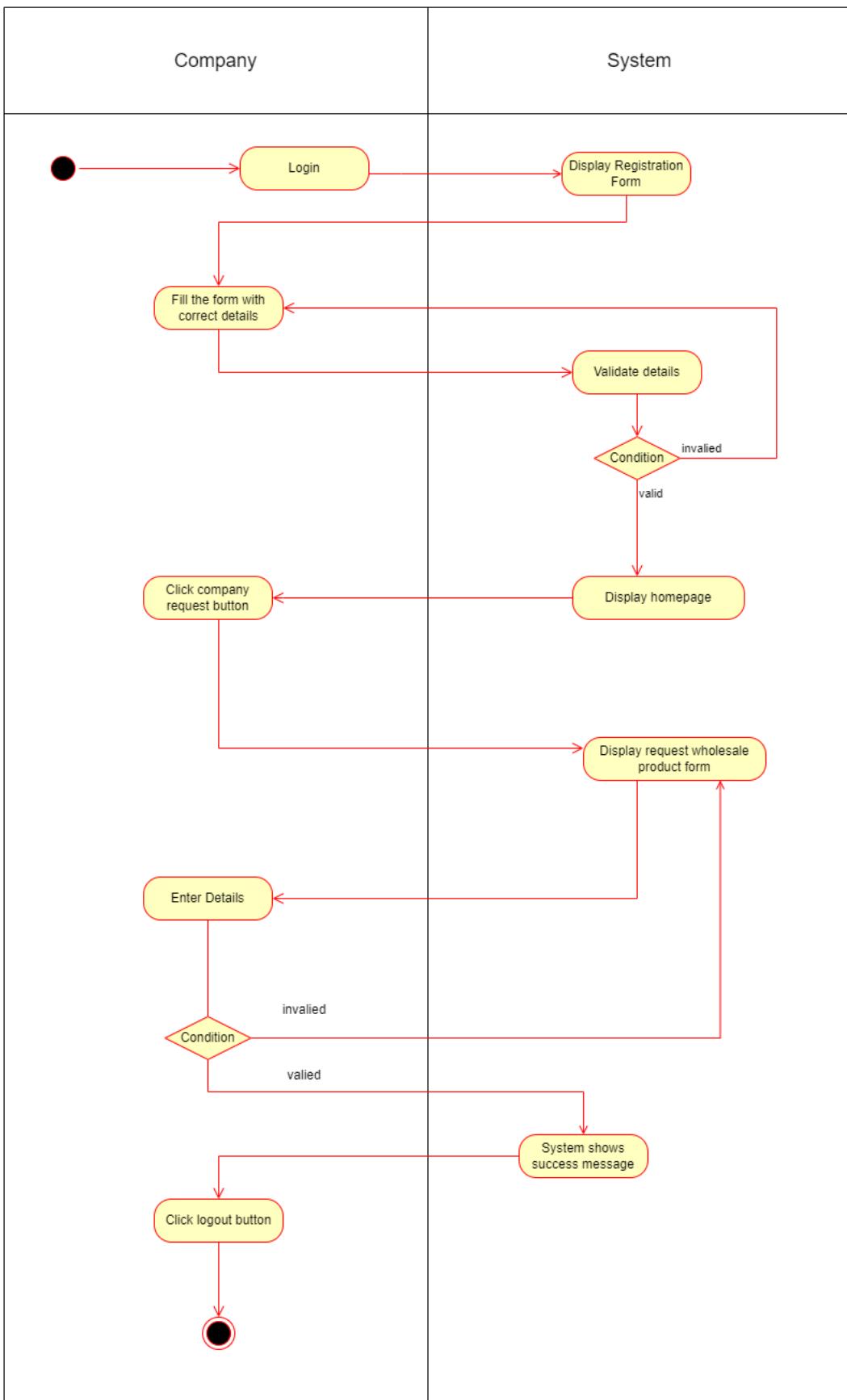


Figure 19 Company activity diagram

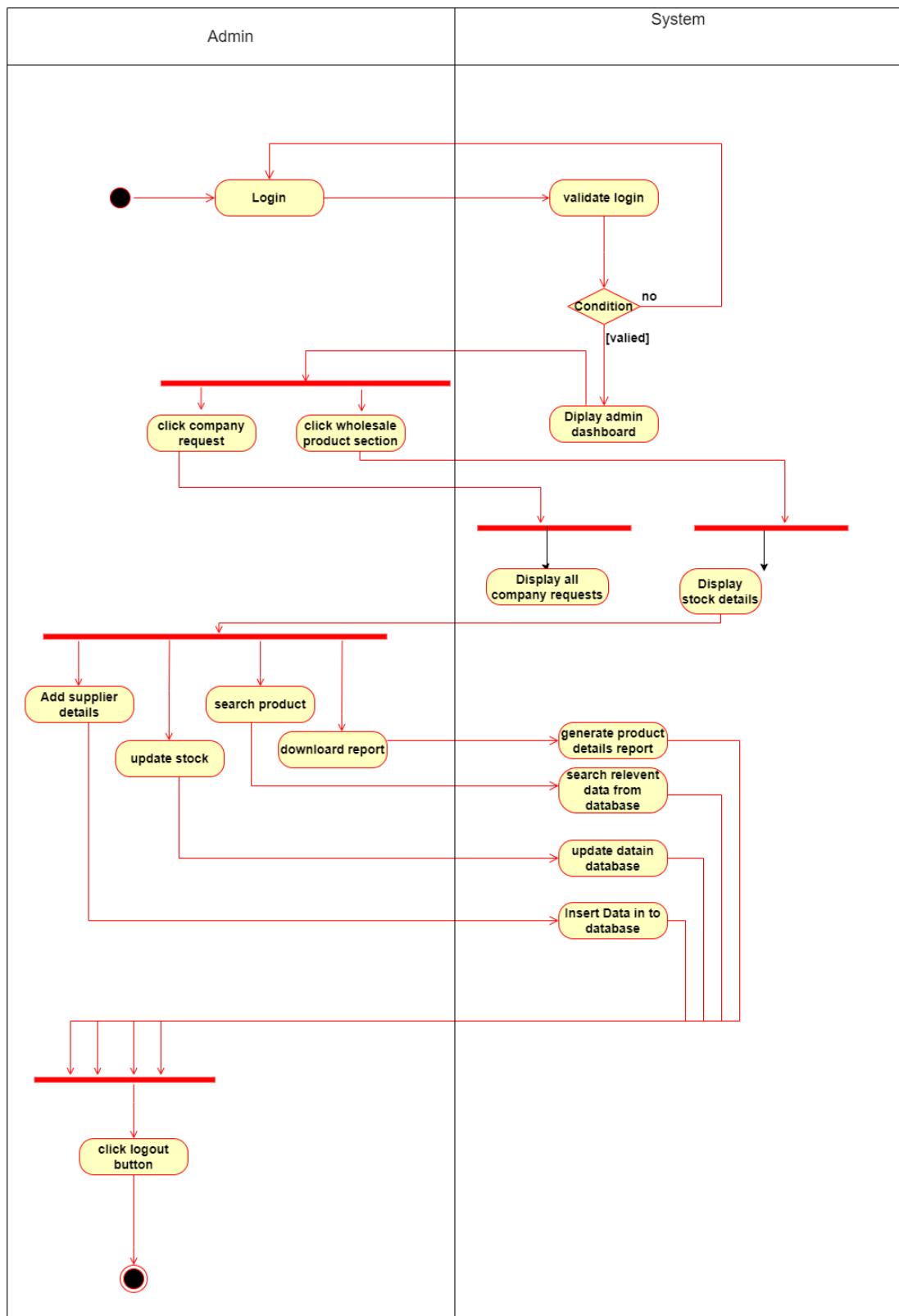


Figure 20Product activity diagram

Table 19Store Add new products test

Group ID : WD_B01_ITP_G07	
Project title: Store Management	
Testing Function 3: Add products to the website	
Test case ID : 003	Test designed by: Kumarapeli K.A.P.P Reg. No- IT20610166
Test priority (High/Medium/Low):	High
Test Description: Add new products to the system through admin area. If the input is success the the product will be added to the database and the success alert will be displayed.	
Preconditions (if there are any): User should be inside the admin area.	
Dependencies (if there are any):	
Test steps:	
<ol style="list-style-type: none"> 1. Navigate to product admin page. 2. Click on the add new product button. 3. Enter details to the input fields. 4. Click on Apply Now button. 5. If the inputs are valid then the products should be added to the database. 6. If the inputs are incorrect a small validation message will be appeared 	

Test executed Group ID:

Test Executed members details:

Reg. No- IT-20610166

Name- Kumarapeli K.A.P.P

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Comments
003	<p>Products details</p> <p>INPUTS</p> <ul style="list-style-type: none"> • Name Potatoes • Category Vegetables • Unit Price 5\$ • Image https://i.ibb.co/zG0bhPn/Potatoes.jpg • Small Description Potato is a good vegetable • Long Description Some long description about potatoes 	Since the user has input the correct and valid inputs there should be a popup saying "Product added to the database" was displayed.	A popup saying "Product added to the database" was displayed.	Pass	The function works as Expected and the values Are going to the database Without any errors.

Table 20 Add course Test Case

Group ID: WD_B01_ITP_G07	
Project title: Agricultural Management System	
Testing Function 1: Agriculture Education Management – Add New Course	
Test case ID: 001	Test designed by: Reg. No- IT20644512 Name- Samarasinghe S.K.M.S
Test priority (High/Medium/Low):	High
Test Description: Add new course to the system	
Preconditions (if there are any): Admin must be logged in to the system.	
Dependencies (if there are any): No	
Test steps:	
<ol style="list-style-type: none"> I. Course manager log in to the system using logging credentials II. Select the Course Management from my workspace in Admin Dashboard. III. Click on the Add New Course option. IV. Enter course details to the input fields. V. Click on the Add Course button. 	

Test executed Group ID:

Test Executed members details:

Reg. No- IT20604844

Name- W.G.T.D Thilakarathna

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Comments
	<p>Add new course to the system</p> <p>INPUTS</p> <ul style="list-style-type: none"> • Course Id A234 • Course Name Insurance and crop adjusting • Course Category Crop science • Course Thumbnail Image link • Provide Institute CIC Agri • Institute email Email • Course description Agricultural Technology and Management degree program including production and management of field, horticultural, 	If validations are success, an alert will be displayed as “course added successfully” and course manager clicks on okay button its redirect to the admin dashboard and display course details also in course home page and data will be saved in course database.	All validations are successfully working, alerts are successfully working, and the added course is displayed in the course admin console and course home page, and data saved in course database.	Pass	<ul style="list-style-type: none"> • All the validations are working. • Entered inputs are successfully going to the database. • Alert messages are successfully displaying. • Added course is successfully displaying in the course admin dashboard and display course details in course homepage,

	<ul style="list-style-type: none"> • Course link <p>Source link</p>				
--	--	--	--	--	--

Table 21 Update course test case

Group ID: WD_B01_ITP_G07	
Project title: Agricultural Management System	
Testing Function 1: Agriculture Education Management – Update Course	
Test case ID: 001	Test designed by: Reg. No- IT20644512 Name- Samarasinghe S.K.M.S
Test priority (High/Medium/Low):	High
Test Description: Update the course	
Preconditions (if there are any): Course manager must be logged in to the system.	
Dependencies (if there are any): No	

Test steps:

- VI. Course manager log in to the system using logging credentials
- VII. Select the Course Management from my workspace in Admin Dashboard.
- VIII. Course manager clicks on update option in the course that he wants to update
- IX. Change the course details wants to update.
- X. Click on the update course button.

Table 22Update course test case

Test executed Group ID:

Test Executed members details:

Reg. No- IT20604844

Name- W.G.T.D Thilakarathna

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Comments
	<p>Update course</p> <p>INPUTS</p> <ul style="list-style-type: none"> • Current value Course Institute (CIC Agri Lanka) Institute Email (cic@gmail.com) • Wish to update Course Institute (CIC Agri Academy) Institute Email (cicacademy@gmail.com) 	If validations are success, an alert will be displayed as “course updated successfully” and course manager clicks on ok button its redirect to the admin dashboard and display updated details also in course home page and data will be updated in course database.	All validations are successfully working, alerts are successfully working, and the updated details are displayed in the course admin console and course home page, and data updated in course database.	Pass	<ul style="list-style-type: none"> • All the validations are working. • Entered updated inputs are successfully going to the database. • Alert messages are successfully displaying. • Updated details are successfully displaying in the course admin dashboard and display course details in course homepage,

Test steps:

- I. Login to the system using Admin login credentials
- II. Select the lab management button on the admin home page.
- III. Click on the Add report option.
- IV. Enter all details into the report.
- V. Click Save Button.
- VI. Check if the lab report was created in the All-lab report table on the directed page (Lab report Home page) and that the new lab report should be visible to our customer in customer UI.

Pass-condition:

After submitting the form newly created Report should be in the Lab report table (Step 4) and also should update our Customer User UI with the newly added lab report Details. Also, the data in both report and customer UI should be the same as the entered data.

Table 23Lab Test Cases

Test executed Group ID: Test Executed members details: Reg. No- Name-					
Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Comments
	<p>Add new Lab report</p> <p>INPUTS</p> <ul style="list-style-type: none"> • Company Name Citrus Hotel • Company Email CitrusH@gmail.com • Lab report about Checked the water sample to get a report for is that the water is suitable for animal use • Lab ID Lab B • Lab report Status pass 	If validations are successful, an alert will be displayed “Report Added Successfully” and displayed the newly added report in the Admin UI Lab report Table and User Lab report UI.	All validations are successfully working, alerts are successfully working, and the added lab report is displayed in the admin lab report table and User lab report UI .	Pass	<ul style="list-style-type: none"> • All the validations are working. • Entered inputs are successfully going to the database. • Alert messages are successfully displayed. • An added lab report is successfully displayed on the admin lab report table and User lab report UI.

Preconditions (if there are any): Admin must be logged in to the system.

Dependencies (if there are any): No

Testing Function 3: Lab Management– Update a current Lab report	
Test case ID: 006	Test designed by: Reg. No- Name-
Test priority (High/Medium/Low):	High
Test Description: Update the Lab report with different data	

Preconditions (if there are any): Admin must be logged in to the system.
Dependencies (if there are any): No

Test steps:
I. Admin must Log in to the system as Admin. II. Admin should go to the All-lab reports Page. III. Admin should select the report that wants to update by clicking company name. IV. Change the data wants to update. V. Click the Update Button. VI. Check if the lab report was Updated in the All-lab report table on the directed page (Lab report Home page) and that the Updated lab report should be visible to our customer in customer UI.

Test executed Group ID: WD_B01_ITP_G07

Test Executed members details:

Reg. No-

Name-

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Comments
	<p>Update lab report</p> <p>INPUTS</p> <ul style="list-style-type: none"> • Company Name Citrus Hotel • Company Email CitrusH@gmail.com • Lab report about Checked the water sample for, get a report for is that the water is suitable for animal use • Lab ID Lab C (updated) • Lab report Status Fail (updated) 	If validations are successful, an alert will be displayed “Post updated Successfully” and displayed the updated report in the Admin UI Lab report Table and User Lab report UI.	All validations are successfully working, alerts are successfully working, and the Updated lab report is displayed in the admin lab report table and User lab report UI.	Pass	<ul style="list-style-type: none"> • All the Validations are working • All the alert messages are working. • Updated inputs are successfully going to the database. • An updated lab report and updated data successfully displayed on the admin lab report table and User lab report UI.

<u>Testing Function 3: Lab Management</u>					
Logic in Interfaces	Validation and proper error messages	Connected to the database	Easy to use, User friendliness,	Easy navigation	Function is complete (%)
<ul style="list-style-type: none"> All the logics and interface are completed 	<ul style="list-style-type: none"> Validations and proper error messages are working correctly. 	<ul style="list-style-type: none"> There is a proper database connection. 	<ul style="list-style-type: none"> Easy to use and user friendly. 	<ul style="list-style-type: none"> Easy navigations are used. 	<ul style="list-style-type: none"> Overall function has no issues and completes.

Table 24LandSaleManagement Test Case3

Group ID: WD_B01_ITP_G07	
Project title: Cultivated Land Sale Management	
Testing Function 4: Add Advertisement to the website	
Test case ID: 004	Test designed by: Reg. No : IT20605902 Name: Samarasinghe S.D
Test priority (High/Medium/Low):	High
Test Description: Add new advertisement to the system through admin area. If the input is success the advertisement will be added to the database and the success alert will be displayed.	

Preconditions (if there are any): User should be inside the admin area.
Dependencies (if there are any):

Test steps:
<ol style="list-style-type: none"> 7. Navigate to advertisement admin page. 8. Click on the create new advertisement button. 9. Enter details to the input fields. 10. Click on submit button. 11. If the inputs are valid, then the ad should be added to the database. 12. If the inputs are incorrect a relevant validation message will be appeared

Test executed Group ID: WD_B01_ITP_G07

Test Executed members details:

Reg. No-IT20605902

Name-Samarasinghe S.D

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Comments
004 45	<p>Advertisement details</p> <p>INPUTS</p> <ul style="list-style-type: none"> • Type Coconut • Town Maharagama • AgentRef AK Agri Lands • Heading Coconut Land for Sale • Description Coconut in an island is almost a common sight. • Size of Area (Perches) 103000 • Price Rate (Rs. Per Perch) 0706776354 • Contact Name W.K. Wijesinghe • Email Wijesinghe5@gmail.com • Phone 0706776354 • Image https://ibb.co/jVx5dj3 	<p>Since the user has input the correct and valid inputs there should be a popup saying, “Advertisement added to the database”.</p>	A popup saying “Advertisement added to the database” was displayed.	Pass	The function works as Expected and the values Are going to the database Without any errors.

Table 25Career Management System Testcase – Add new vacancies test case

Group ID: WD_B01_ITP_G07	
Project title: Agricultural Management System	
Testing Function 1: Career Management – Add New Vacancies	
Test case ID: 001	Test designed by: Reg. No- IT20644512 Name- Wijesundara W.M.P.S
Test priority (High/Medium/Low):	High
Test Description: Add New Vacancies to the System	
Preconditions (if there are any): Admin must be logged in to the system.	
Dependencies (if there are any): No	
Test steps:	
XI. Login to the system using Admin login credentials XII. Select the name, Career Management from my workspace in Admin Dashboard. XIII. Click on the Careers in my workspace. XIV. Click on the Add New Vacancies in the Vacancies Admin Dashboard. XV. Enter details to the input fields. XVI. Click on the Add button.	
Test executed Group ID:	
Test Executed members details:	

Reg. No- IT20299552
Name- Rubasinghe L.M

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Comments
	<p>Add New Vacancies to the System</p> <p>INPUTS</p> <ul style="list-style-type: none"> • Vacancy No VA005 • Job Title Warehouse Manager • Description We are looking for a qualified and experienced warehouse manager • Published Date 2022/05/10 • Image Image link 	<p>If validations are success, an alert will be displayed “Going to add new vacancy “then admin wants clicks on yes, vacancy will be added into the system and displayed the new vacancy in Career Vacancies page and Vacancy Admin Dashboard.</p>	All validations are successfully working, alerts are successfully working, and the added vacancy is displayed in the Career Vacancies page and Vacancy Admin Dashboard.	Pass	<ul style="list-style-type: none"> • All the validations are working. • Entered inputs are successfully going to the database. • Alert messages are successfully displaying. • Added vacancy is successfully displaying in the Career Vacancies page and Vacancy Admin Dashboard.

Testing Function 1: Career Management – Apply for Vacancy

Test case ID: 002	Test designed by: Reg. No- IT20649494 Name- Ranasinghe B. D. R. A. M. A. K. B.
Test priority (High/Medium/Low):	High

Test Description: Apply for vacancies by providing details.

Preconditions (if there are any): User must be accessing the Vacancy page.

Dependencies (if there are any): Depends on the Vacancies

Test steps:

- I. User must Access the Career Vacancies Page first.
- II. Clicks on the Vacancy Apply Now button.
- III. Enter details to the input fields.
- IV. Click on Apply Now button.

Table 26Apply for vacancies testcase

Test executed Group ID:

Test Executed members details:

Reg. No- IT20299552

Name- Rubasinghe L.M

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Comments
	<p>Apply for Vacancies</p> <p>INPUTS</p> <ul style="list-style-type: none"> • Position <u>Manager</u> • Name with Initials S. Piyasinghe 	If validations are success, alert will be displayed as “Going to Apply Vacancy” then	All the validations are working successfully, all the alerts are working successfully, and the	Pass	<ul style="list-style-type: none"> • All the Validations are working • All the alert messages are working. • Entered inputs are successfully

	<ul style="list-style-type: none"> • Name in full Sahan Piyasinghe • Birthday 1995/04/17 • NIC 199510701911 • Address Galle • Mobile 0774589632 • Email Sahan.p@gmail.com • LinkedIn Sahanpiasinghe.linkedin.com • O/L Yes • A/L Yes • Degree Yes • CV Document 	<p>applicant clicks on yes the response will be saved and displays an alert “Your response is Successfully Submitted” and the submitted details will be saved in Career Vacancy Applicant dashboard.</p>		<p>response is saved in Career Vacancy Applicant Dashboard.</p> <p>going to the database.</p> <ul style="list-style-type: none"> • Responses are saved in the Career Vacancy Applicant Dashboard.
--	---	--	--	--

Table 27Add new Events Mangement Test case

Group ID: WD_B01_ITP_G07	
Project title: Agricultural Management System	
Testing Function 1: Event Management – Add New Events	
Test case ID: 001	Test designed by: Reg. No- IT20650452 Name- Laksiri B. A. S. V
Test priority (High/Medium/Low):	High

Test Description: Add New Events to the System

Preconditions (if there are any): Admin must be logged in to the system.

Dependencies (if there are any): No

Test steps:

- XVII. Login to the system using Admin login credentials
- VIII. Select the name, Farmer Support Portal from my workspace in Admin Dashboard.
- XIX. Click on the Farmer Support Portal in my workspace.
- XX. Click on the Add New Events in the Events Admin Dashboard.
- XXI. Enter details to the input fields.
- XXII.** Click on the Add button.

Test executed Group ID:

Test Executed members details:

Reg. No-IT20607678

Name-Senevirathne W.S.M.S. D

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Comments
	<p>Add New Events to the System</p> <p>INPUTS</p> <ul style="list-style-type: none"> • Event ID E02 • Event Name AgroLanka'22 • Category Agriculture • Start Date 	<p>If validation is success, Event is successfully added, an alert will be displayed</p> <p>“Event added.”</p> <p>“Then admin wants clicks on ok button, Event will be added into the</p>	<p>All validations are successful, and Alerts are successfully working, and the added Event is displayed in the Events home page as a new card and display in</p>	Pass	<ul style="list-style-type: none"> • All the validation are working • Entered inputs are successfully going to the database. • Alert messages are successfully displaying. • Added Event is successfully displaying in the Events home page as

	<p>2022/08/19</p> <ul style="list-style-type: none"> • Start Time 10.00 a.m • All Day Event yes • Venue Kandy 123/B • Description <p>The Agrolanka'22 main purpose is to make the attendees those who have a keen interest in agriculture and the farmers aware of the latest techniques and new discoveries which are taking place in the field of agriculture in the contemporary times.</p> <ul style="list-style-type: none"> • Image Image link 	<p>database and displayed in Events home page and Events Admin Dashboard.</p>	<p>Events Admin Dashboard.</p>		a new card and Events Admin Dashboard.
--	--	---	--------------------------------	--	--

Table 28Register for events test case

Testing Function 2: Events Management – Register for Events	
Test case ID: 002	Test designed by: Reg. No- IT20646592 Name- Sampath R. D. D
Test priority (High/Medium/Low):	High
Test Description: Register for Events by filling details.	

Preconditions (if there are any): User must be accessing the Events page.

Dependencies (if there are any): Depends on the Events in home page

Test steps:

- V. User must Access the Events home Page first.
- VI. Clicks on the Join button in the relevant event card or by searching the event name.
- VII. Enter details to the input fields.
- VIII.** Click on Register button.

Test executed Group ID:

Test Executed members details:

Reg. No- IT20607678

Name- Senevirathne W.S.M.S.D

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Comments

	<p>Register for Events</p> <p><u>INPUTS</u></p> <ul style="list-style-type: none"> • Full Name P.Liyanage • Address Pawan Liyanage • E-Mail pawan@gmail.com • Phone Number 0718807933 • Number of Guests 2 	<p>If validations are success, applicant clicks on Register button and displays an alert “Registered” and the submitted details will be saved in the database.</p>	<p>All the validations are working successfully, all the alerts are working successfully, and the response is saved in Event Registration table in the database.</p>	<p>Pass</p>	<ul style="list-style-type: none"> • All the Validations are working • All the alert messages are working. • Entered inputs are successfully going to the database.
--	---	--	--	-------------	--

Table 29Healthcare Test Case

Group ID : WD_B01_ITP_G07	
Project title: Agricultural Management System	
Testing Function 1: Get an Appointment-Health Care Management	
Test case ID :	Test designed by: Reg. No- IT20607128 Name- Shalinda R.M.M
Test priority (High/Medium/Low):	High
Test Description: User Get an Appointment	

Preconditions (if there are any): Company should be logged into the system

Dependencies (if there are any):

Test steps:

- I. Login to the system as a user
- II. Users navigate to the appointment form page
- III. User can add their appointment by fill appointment form
- IV. Click the submit button
- V. Check if newly requested request in the page [HealthCare Manager all appointment page].

Pass-condition:

After submitting the form, newly requested request should be in all appointment [V steps]

Table 30WholeSale Testcase

Group ID : WD_B01_ITP_G07

Project title: Agricultural Management System

Testing Function 1: Wholesale Product Management

Test case ID :	Test designed by: Reg. No- IT20617028 Name- Wanni Arachchige P.N
Test priority (High/Medium/Low):	High
Test Description: Company Request their wholesale products	
Preconditions (if there are any): Company should be logged into the system	
Dependencies (if there are any):	
Test steps:	
<ul style="list-style-type: none">I. Login to the system as a companyII. Company has to navigate to the All services in navigation bar and select for companiesIII. Company can add their request by fill request formIV. Click the submit buttonV. Check if newly requested request in the page [product manager all company request page]	

Pass-condition:

After submitting the form, newly requested request should be in the all company request [step V]

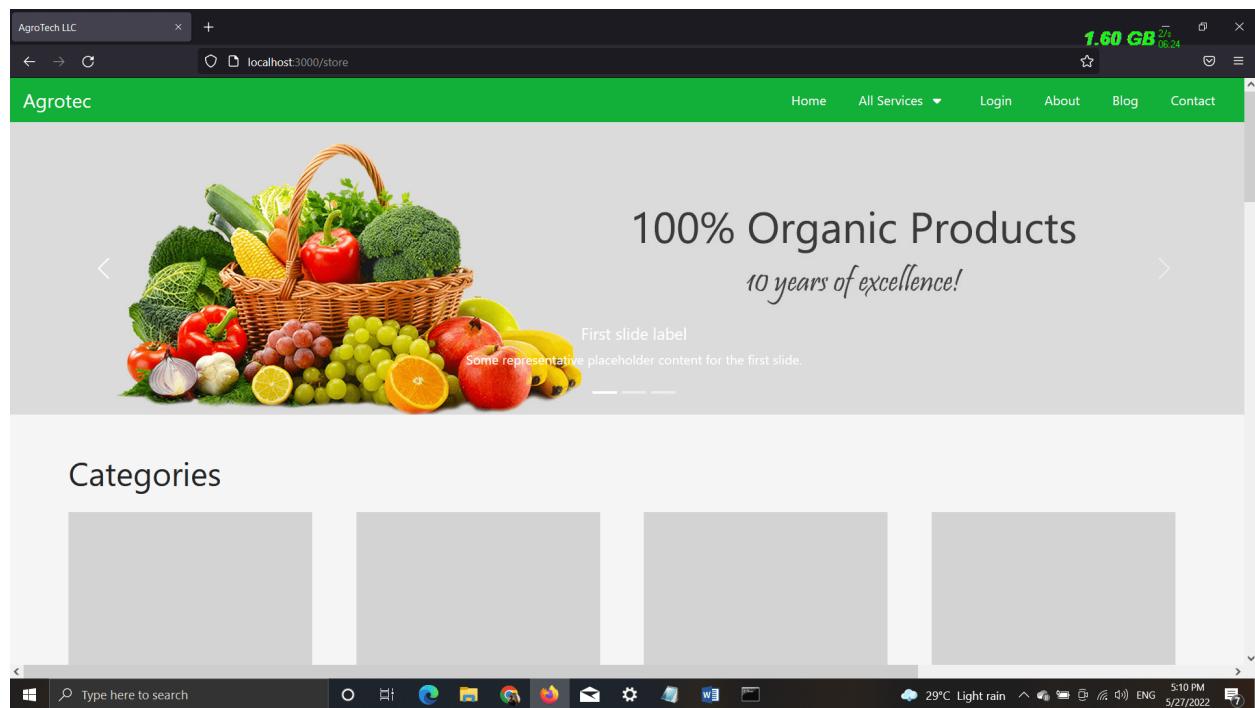


Figure 21 Store ui part 1

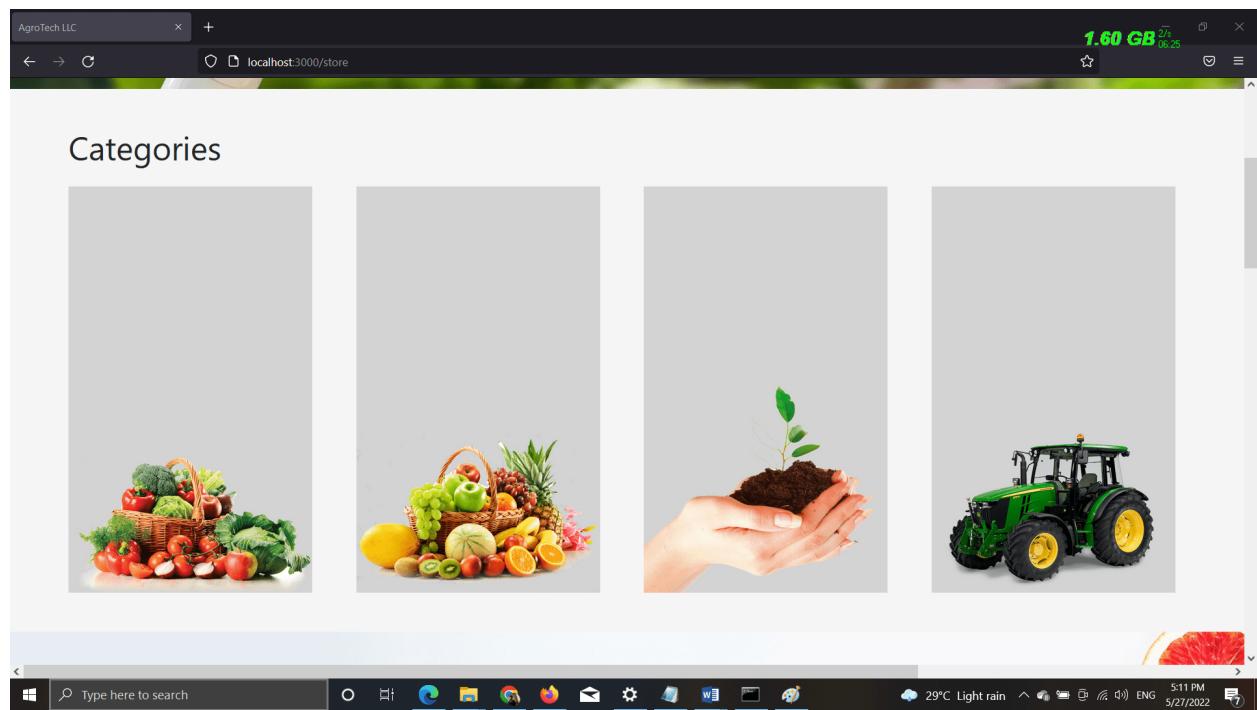


Figure 22 Store ui part 2

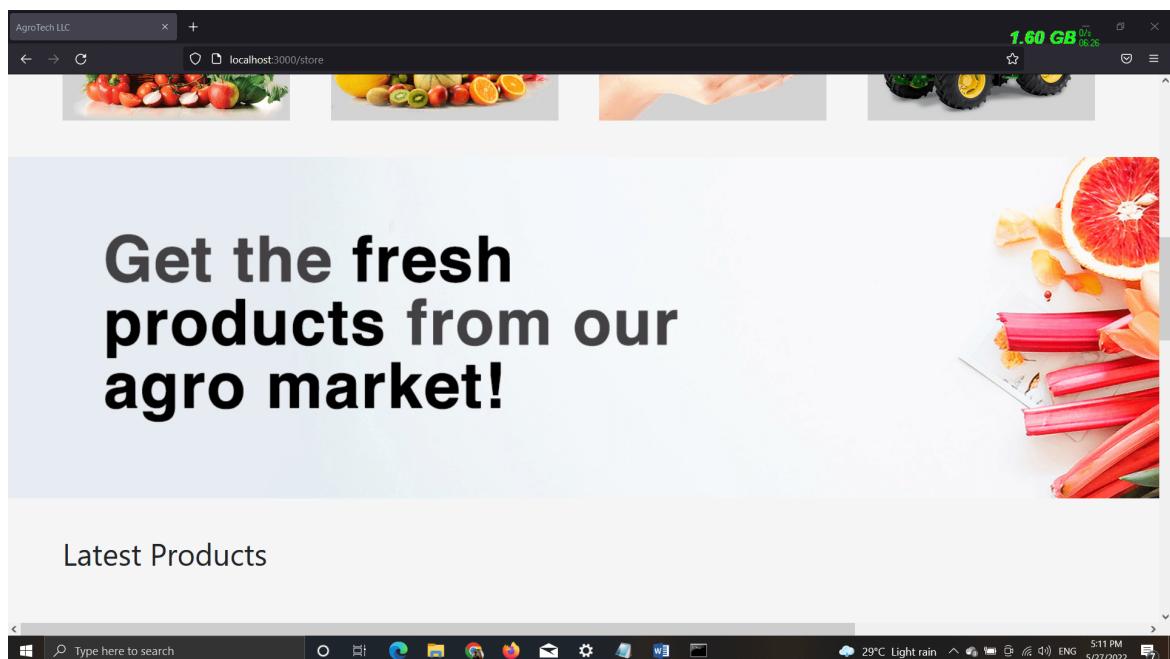


Figure 23 Store ui part 3

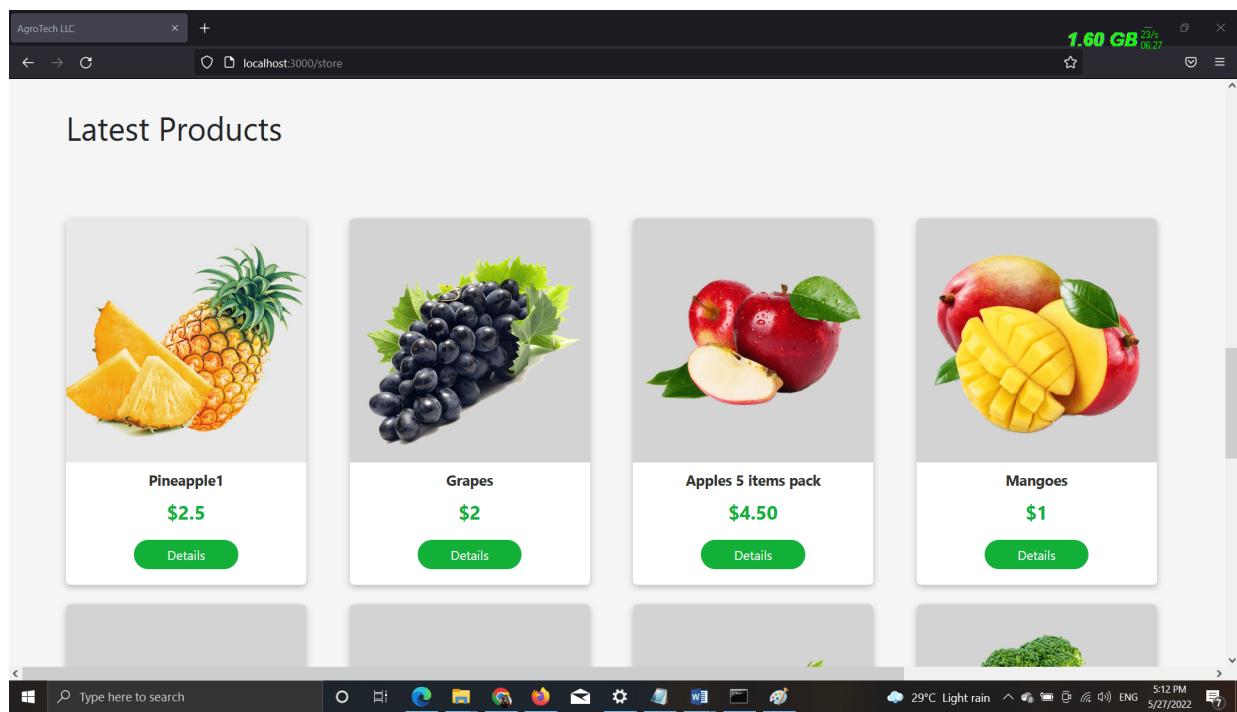


Figure 24 Store latest product ui part I

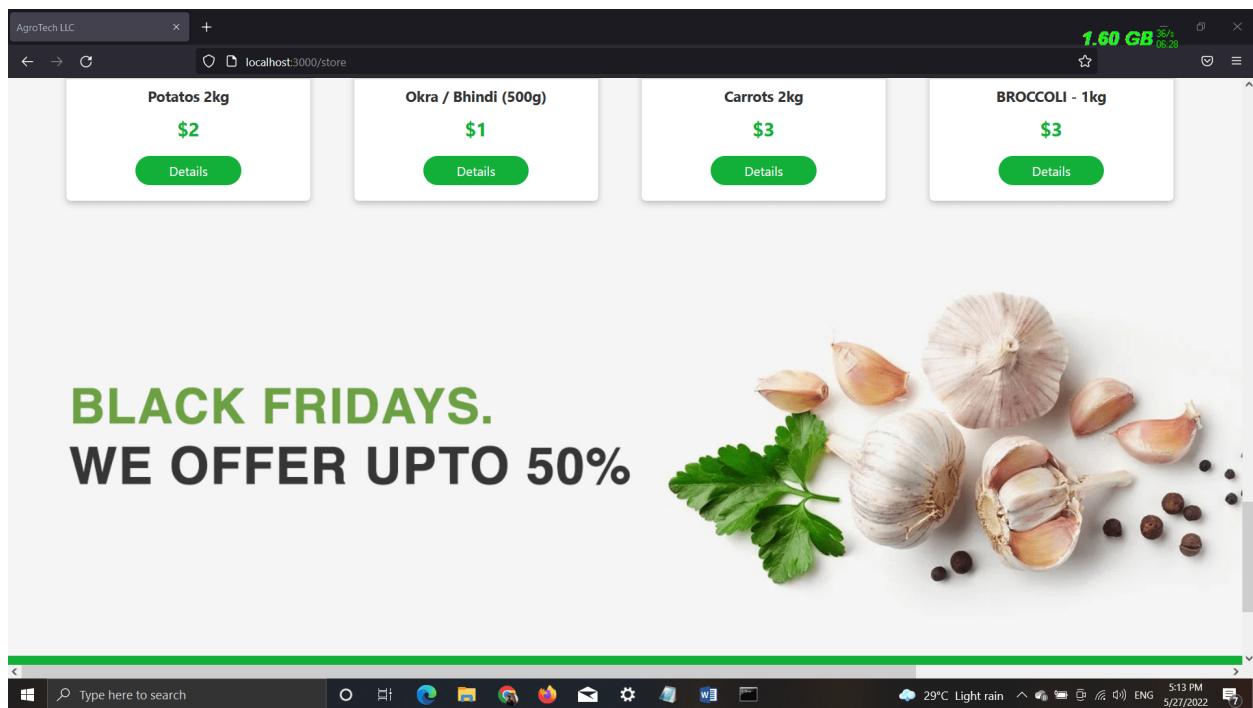


Figure 25 Store latest product ui part 2

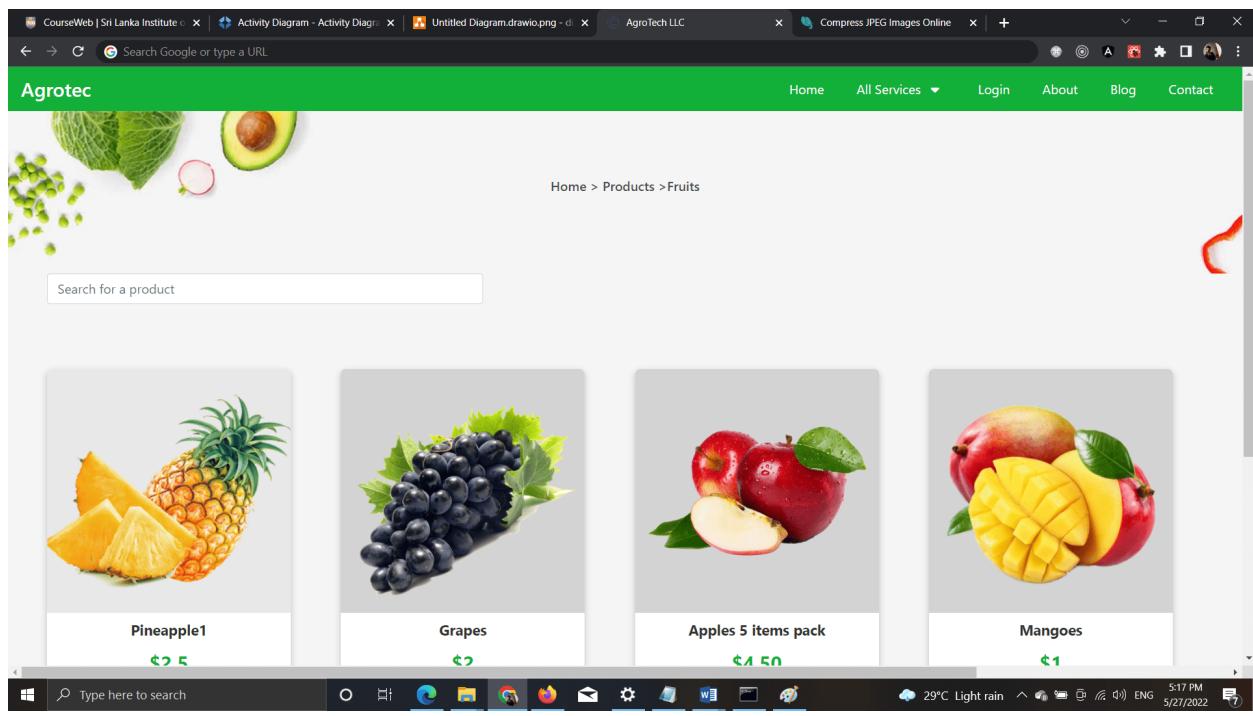


Figure 26 Store categories part I

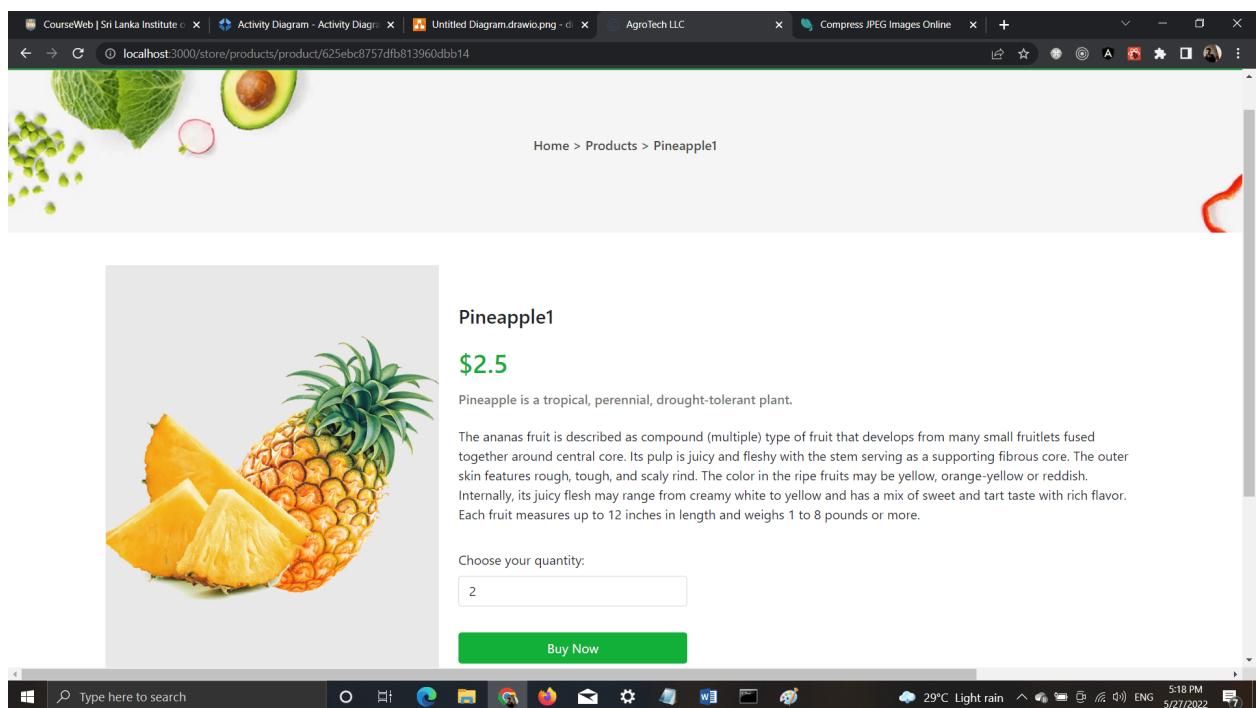


Figure 27 Store ui product details part I

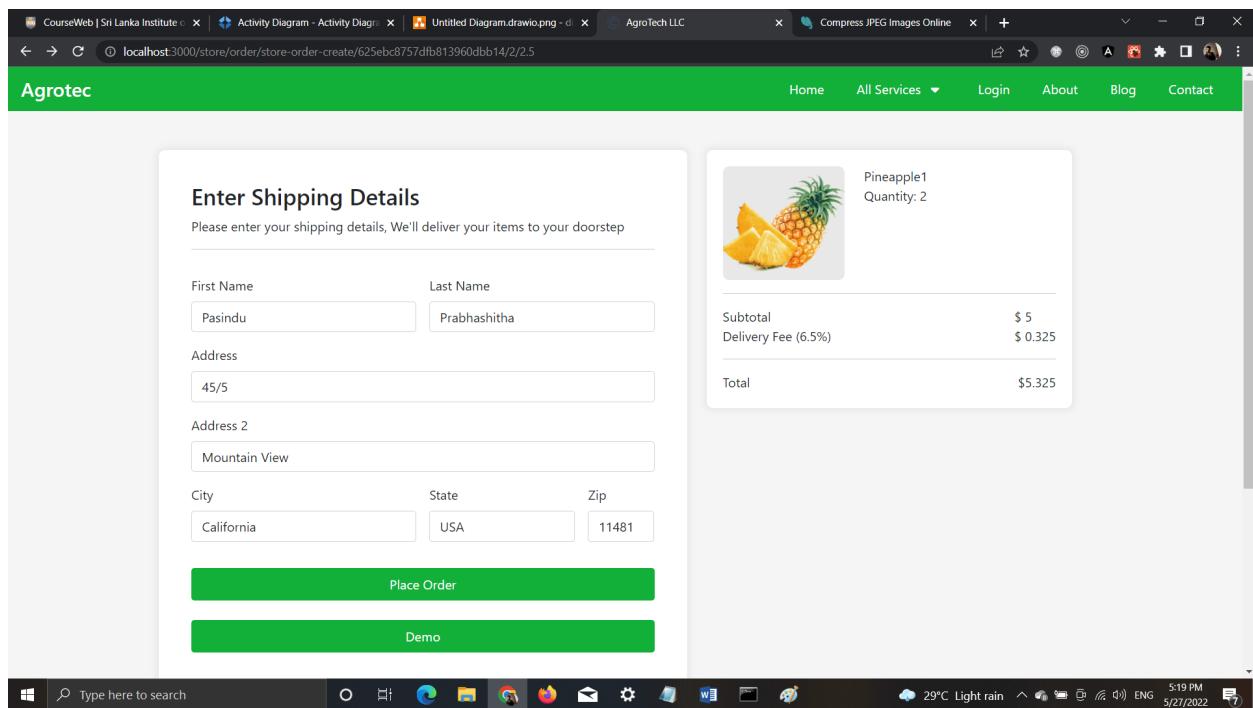


Figure 28Store order place ui part 1

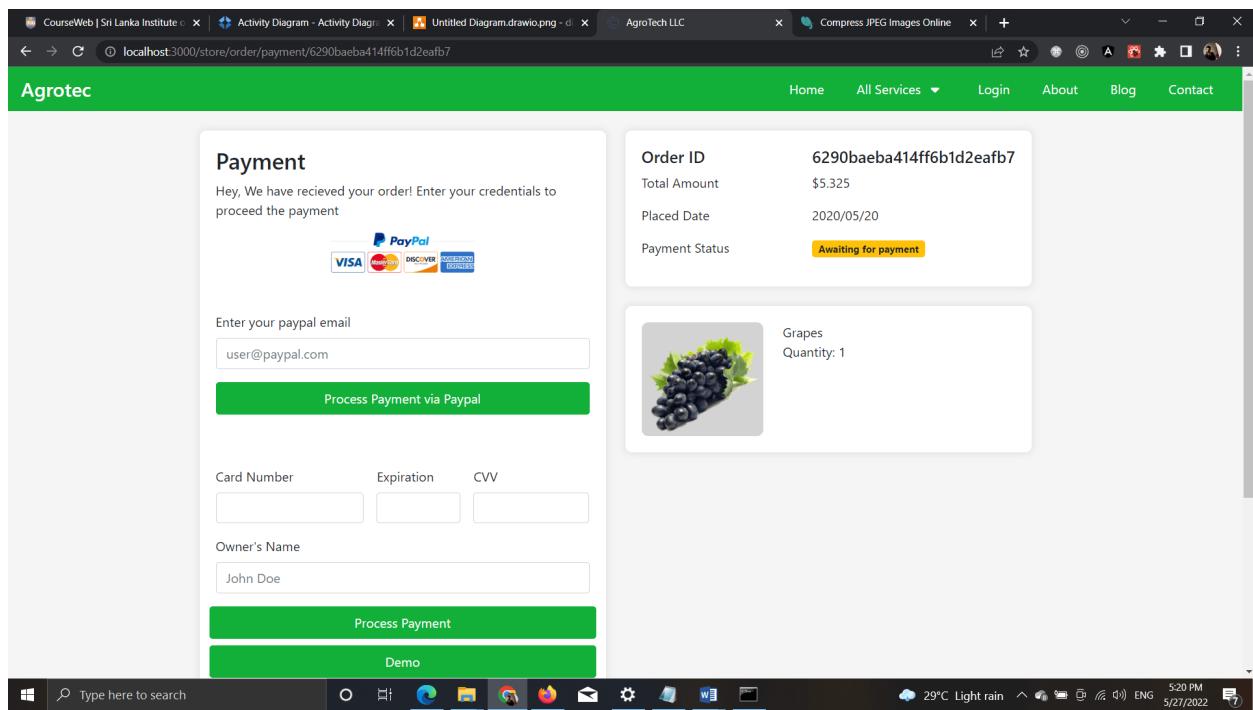


Figure 29Store payment pay stram

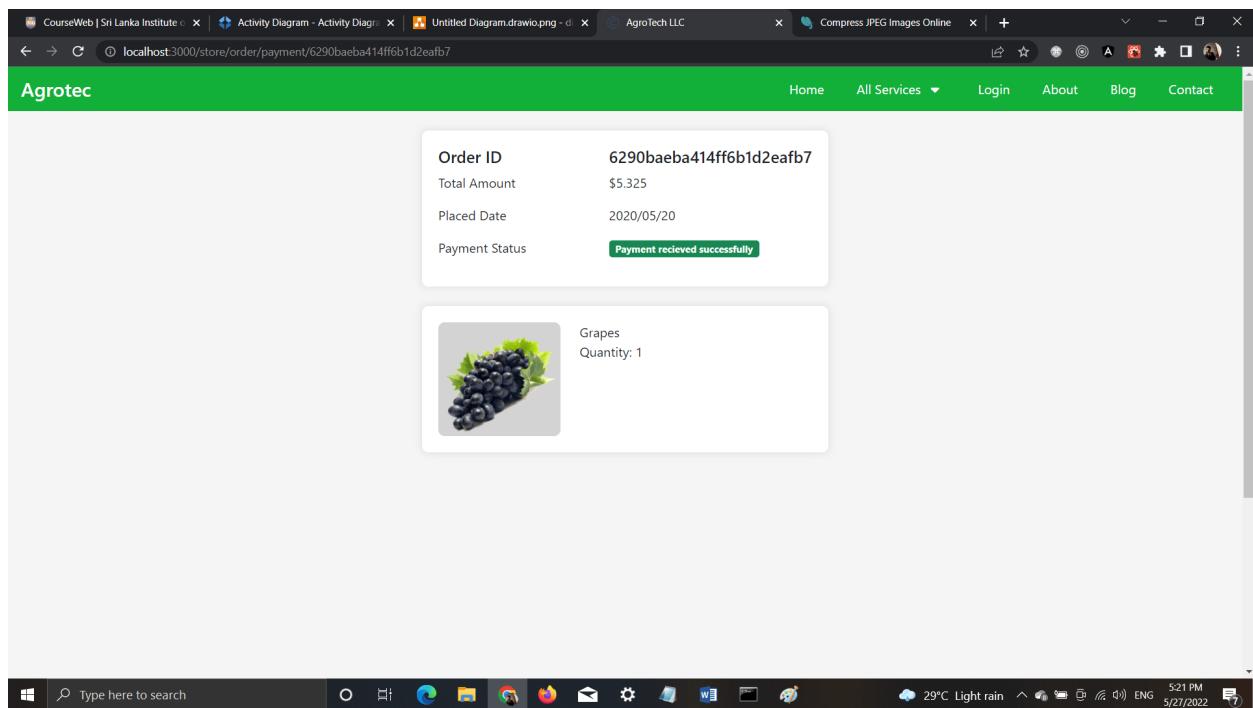


Figure 30 Store payment confirm stream

The screenshot shows a web browser window with multiple tabs open at the top. The active tab is 'localhost:3000/store/store-admin-products'. The page has a green header bar with the 'Agrotec' logo on the left and navigation links for Home, All Services, Login, About, Blog, and Contact on the right. Below the header, the title 'Store Products Admin' is displayed, followed by a sub-instruction: 'These are the products exists inside the store'. There are two buttons at the top: '+ Add Product to Store' and 'Download Products As PDF'. The main content is a table with the following data:

Product ID	Product Name	Category	Actions
625ebc8757dfb813960dbb14	Pineapple1	fruits	Edit Delete
625ebd8857dfb813960dbb1e	Grapes	fruits	Edit Delete
625ebe2957dfb813960dbb20	Apples 5 items pack	fruits	Edit Delete
625ebe8657dfb813960dbb22	Mangoes	fruits	Edit Delete
625f601184072c074f9e5ec1	Potatos 2kg	vegetables	Edit Delete
625f675384072c074f9e5ec8	Okra / Bhindi (500g)	vegetables	Edit Delete

At the bottom of the screen, the Windows taskbar is visible, showing the Start button, a search bar with 'Type here to search', and various pinned icons for apps like File Explorer, Edge, Google Chrome, Mail, and Settings. The system tray displays the date and time as '5/27/2022 5:21 PM'.

Figure 31 Store product admin

The screenshot shows a web browser window with multiple tabs open at the top. The active tab is 'localhost:3000/store/store-admin-orders'. The page has a green header bar with the 'Agrotec' logo on the left and navigation links for 'Home', 'All Services', 'Login', 'About', 'Blog', and 'Contact' on the right. Below the header, a section titled 'Store Order Admin' displays a table of recent orders. The table has columns for 'Order ID', 'Customer Name', 'Amount', and 'Date'. Each row contains a link to the order details. A button labeled 'Download Orders As PDF' is located above the table. The table data is as follows:

Order ID	Customer Name	Amount	Date
62663df102c4bc2eae9287	Pasindu Prabhashitha	\$ 2.13	2022-04-25T06:21:37.254Z
62663f6e02c4bc2eae929a	Pasindu Prabhashitha	\$ 3.195	2022-04-25T06:27:50.285Z
628a6105236f62c4f4863249	234 Prabhashitha	\$ 2.6625	2022-05-22T16:12:53.856Z
628a64af236f62c4f4863259	Pasindu Prabhashitha	\$ 2.6625	2022-05-22T16:28:31.021Z
628aedbc372bf1f3531a2f7b	Pasindu Prabhashitha	\$ 2.13	2022-05-23T02:13:16.617Z
628af5bf2bc02322be018bb7	Pasindu Prabhashitha	\$ 2.6625	2022-05-23T02:47:27.267Z
628af8342bc02322be018bce	Pasindu Prabhashitha	\$ 5.325	2022-05-23T02:57:56.511Z
628afe622bc02322be018be9	Pasindu Prabhashitha	\$ 2.13	2022-05-23T03:24:18.524Z

At the bottom of the screen, the Windows taskbar is visible with a search bar, pinned icons for File Explorer, Edge, and Mail, and system status indicators.

Figure 32 Store Order admin

Store Payment Admin

These are the payments happen inside this month

[Download Payments As PDF](#)

Payment ID	Payee Name	Payment Status	Date
62658605db425188b0d12368		\$ 10.65	2022-04-24T17:16:53.781Z
6266399402c4bc2eaaaa9279		\$ 7.9875	2022-04-25T06:03:00.527Z
62663f9702c4bc2eaaaa929e		\$ 3.195	2022-04-25T06:28:39.454Z
628a64b7236f62c4f486325d		\$ 2.6625	2022-05-22T16:28:39.026Z
628afe85c2bc02322be018bd2	Pasindu Prabhashitha	\$ 5.325	2022-05-23T02:58:36.978Z
628afe692bc02322be018bed	Pasindu Prabhashitha	\$ 2.13	2022-05-23T03:24:25.243Z
628b01792bc02322be018c12	Pasindu Prabhashitha	\$ 9.585	2022-05-23T03:37:29.318Z
6290bb1ba414ff6b1d2eafbb	Pasindu Prabhashitha	\$ 5.325	2022-05-27T11:50:51.972Z

Figure 33 Store payment admin

Agrotec

Home All Services ▾ Login About Blog Contact

Add Product to Store

Enter the details of the new product:

Name

Category

Unit Price

Image

Small Description

Long Description

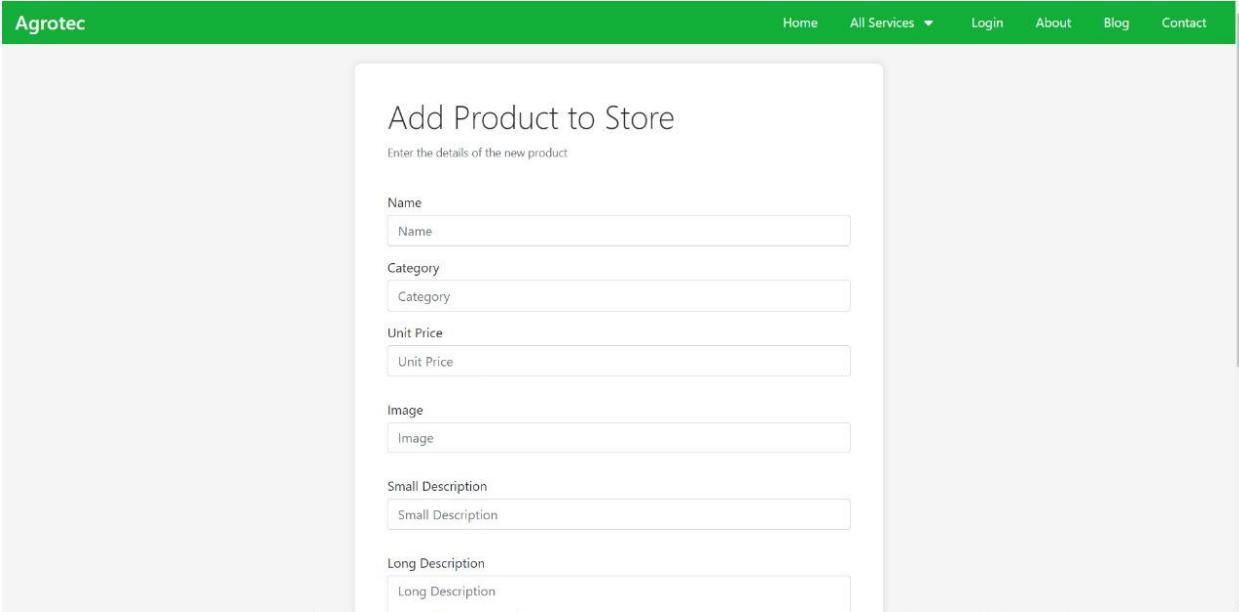
A screenshot of a web application titled "Agrotec". At the top, there is a navigation bar with links for Home, All Services (with a dropdown arrow), Login, About, Blog, and Contact. Below the navigation bar, the main content area has a title "Add Product to Store" and a subtitle "Enter the details of the new product:". There are six input fields labeled "Name", "Category", "Unit Price", "Image", "Small Description", and "Long Description", each with a placeholder text like "Name", "Category", etc.

Figure 34Store add product

Agrotec

Home All Services ▾ Login About Blog Contact

Edit Product on Store

Enter the new details that you need to edit

Name

Category

Unit Price

Image

Small Description

Long Description

Figure 35 Store edit product

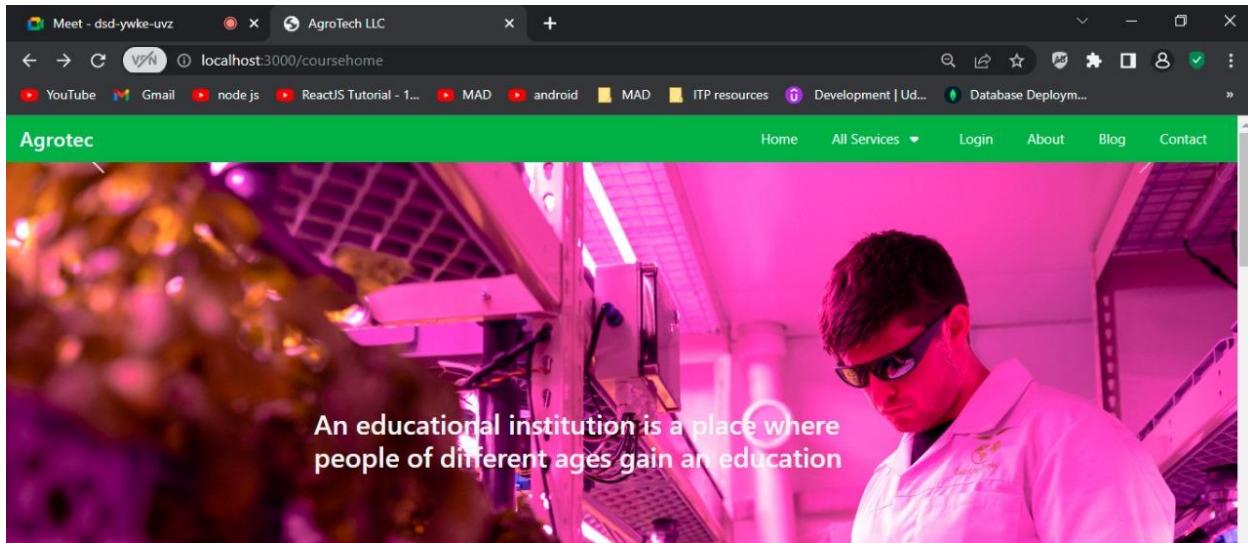


Figure 36Course Home ui part 1

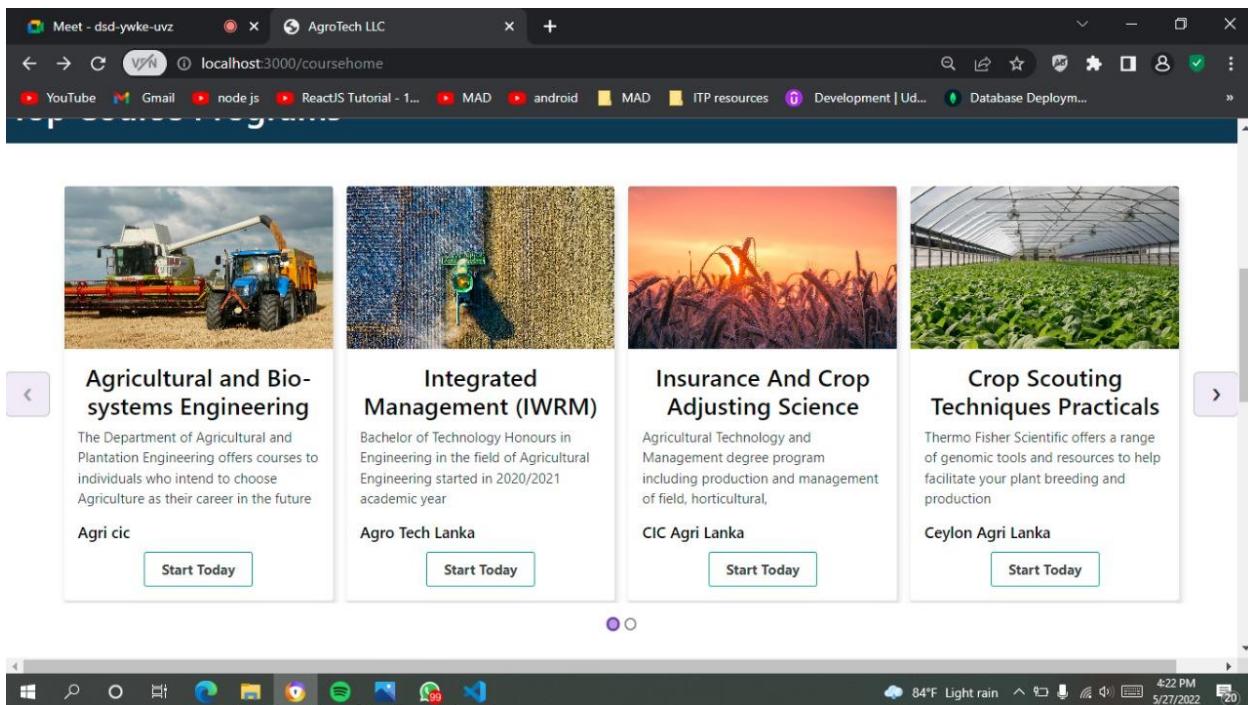


Figure 37Course Home ui part 2

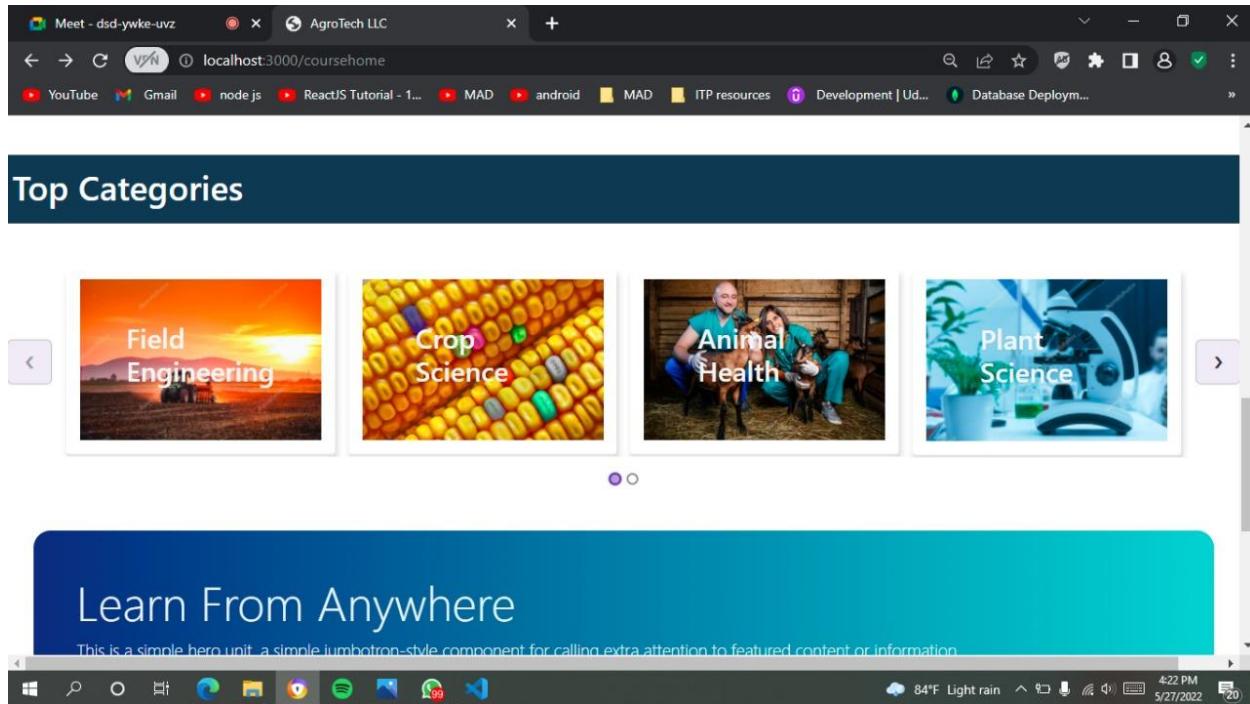


Figure 38 Course Home ui part 3

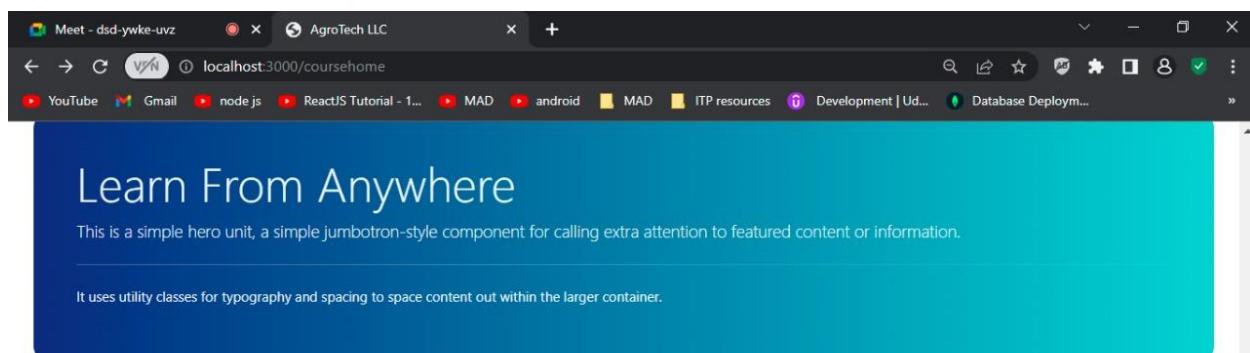


Figure 39 Course Home ui part 4

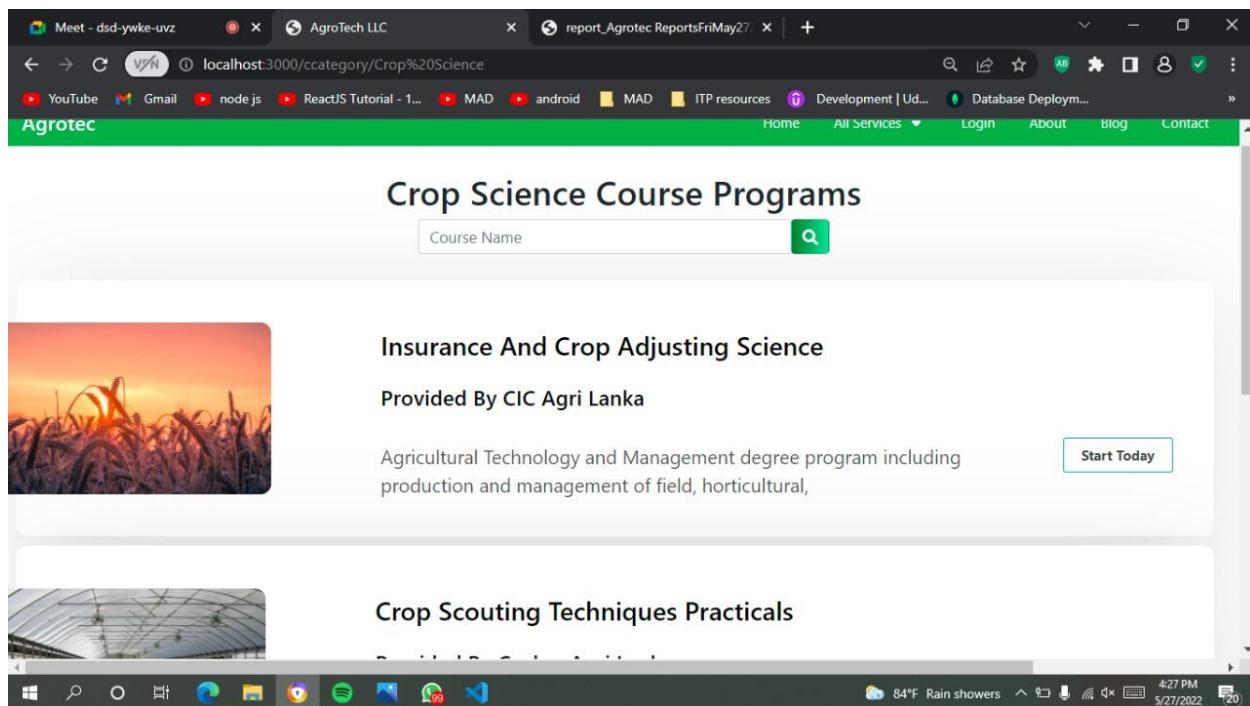


Figure 40 Course category ui part 1

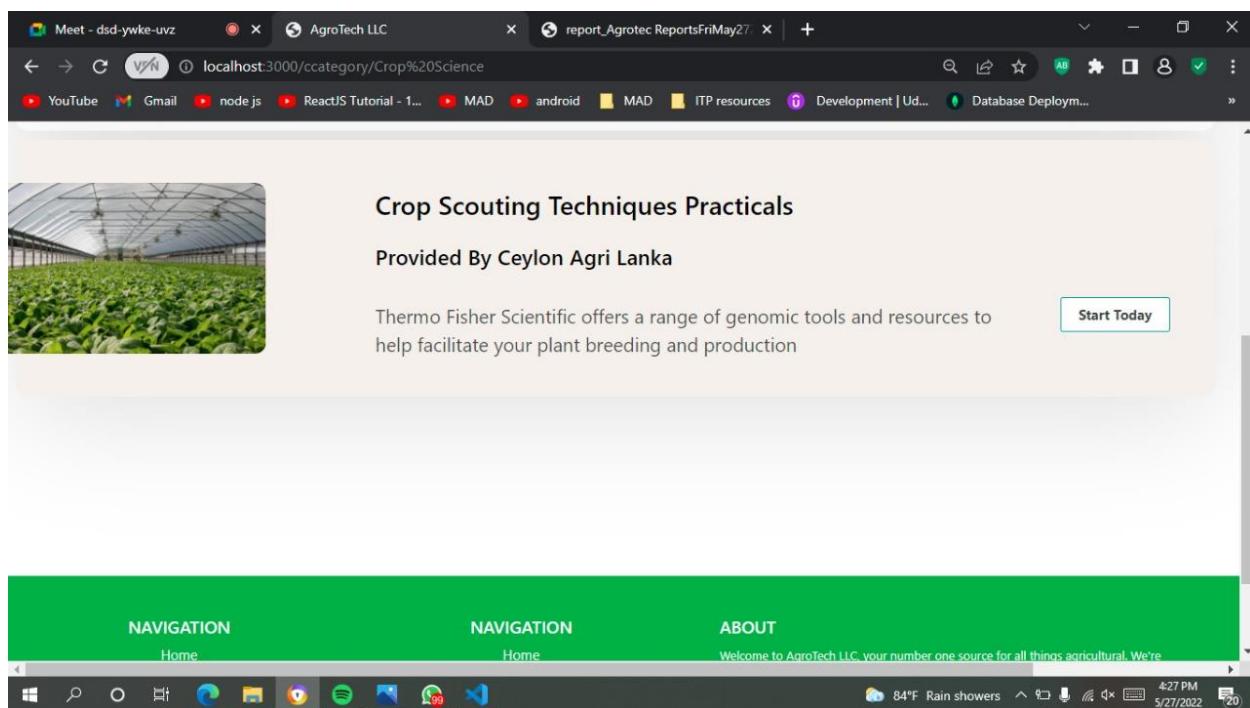


Figure 41 Course category ui part 2

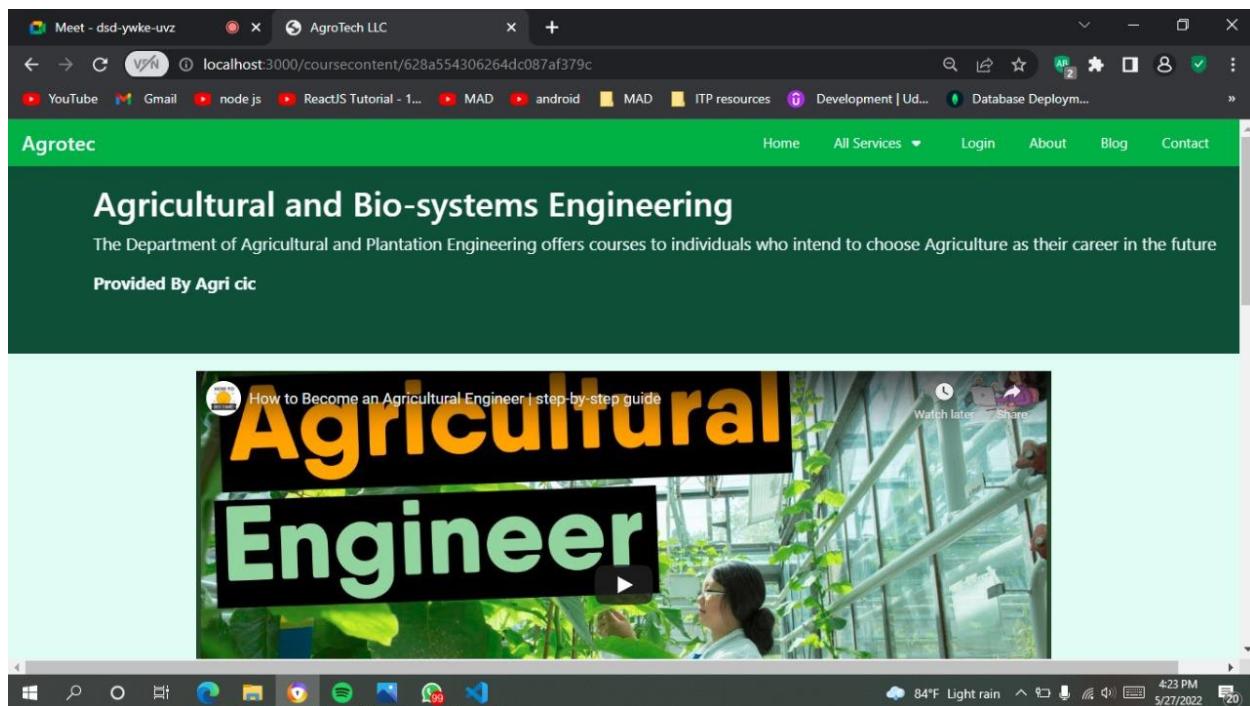


Figure 42 Course content part 1

A screenshot of a Microsoft Edge browser window. The address bar shows 'localhost:3000/coursecontent/628a554306264dc087af379c'. The page title is 'Agrotec' and the main heading is 'Agricultural and Bio-systems Engineering'. Below the heading, there is a detailed description of the course content, mentioning various agricultural disciplines and research opportunities. A section titled 'Student Feedbacks' is present, although no actual feedback is shown. The Windows taskbar at the bottom shows various pinned icons and the date/time as 5/27/2022 4:23 PM.

Figure 43 Course content part 2

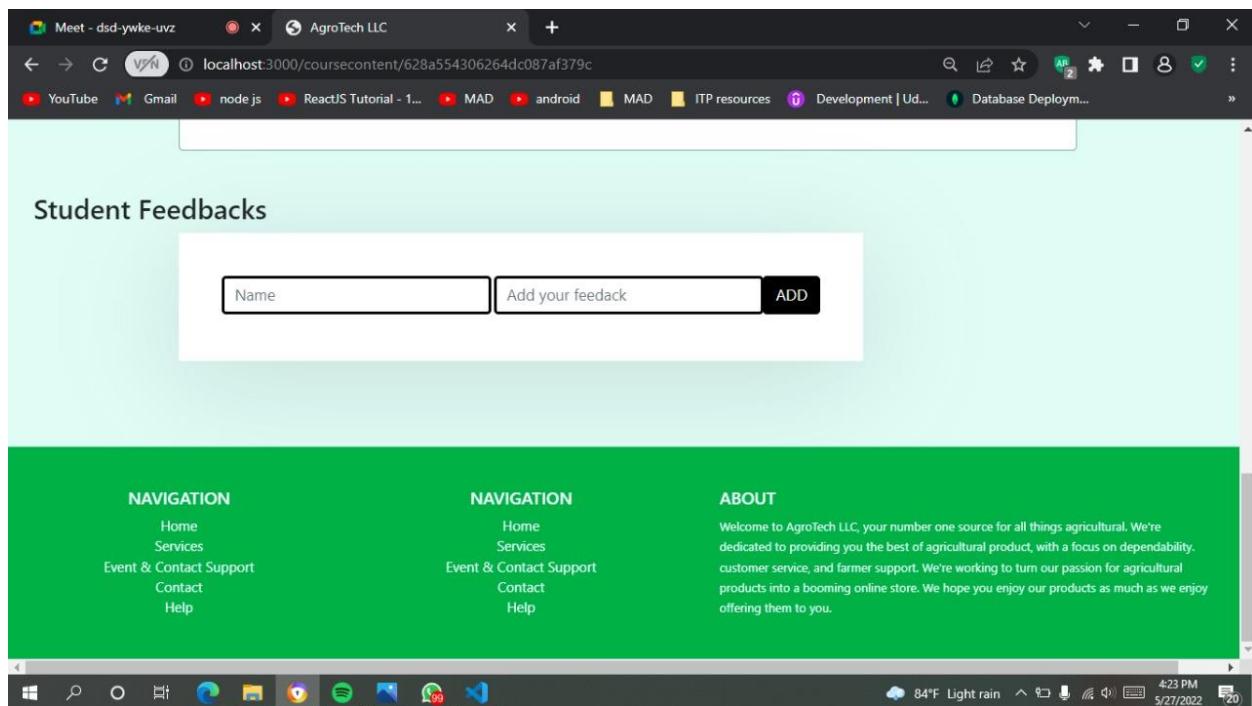


Figure 44Course content part 3

The screenshot shows a web page titled "Manage Courses" under the "Agrotec" header. The page includes a search bar for "Course Name", a "Report" button, and a "+ Add New Course" button. Below is a table listing courses:

Course Id	Thumbnail	Course Name	Category	Institute	Institute Email	Action
E122		Agricultural and Bio-systems Engineering	Field Engnierung	Agri cic	BaursLanka@gmail.com	<button>Update</button> <button>Delete</button>
FE231		Integrated Management (IWRM)	Field Engnierung	Agro Tech Lanka	agrotechlanka@gmail.com	<button>Update</button> <button>Delete</button>
C234		Insurance And Crop Adjusting Science	Crop Science	CIC Agri Lanka	cic@gmail.com	<button>Update</button> <button>Delete</button>

The browser's address bar shows "localhost:3000/courseadmin". The taskbar at the bottom shows various application icons.

Figure 45Course admin console

The screenshot shows the 'Manage Courses' page of the Agrotec application. At the top, there is a search bar with the text 'Agri' and a magnifying glass icon. Below the search bar is a green button labeled 'Report' with a document icon. In the top right corner, there is a green button labeled '+ Add New Course'. The main area displays a table with two rows of course data:

Course Id	Thumbnail	Course Name	Category	Institute	Institute Email	Action
E122		Agricultural and Bio-systems Engineering	Field Engineering	Agri cic	BaursLanka@gmail.com	<button>Update</button> <button>Delete</button>
P124		Agrigenomics Solutions for Plants	Plant Science	Baurs Lanka	baurs@gmail.com	<button>Update</button> <button>Delete</button>

Figure 46 Course admin search ui

The screenshot shows the 'Add New Course' page of the Agrotec application. At the top, there is a red button labeled 'Demo'. The main form has the following fields:

- Course ID *: P124
- Course Category *: Plant Science
- Course Name *: Agrigenomics Solutions for Plants
- Course Thumbnail *: <https://images.pexels.com/photos/391294/>
- Provide Institute *: Provide Institute

Figure 47 Add new course ui 1

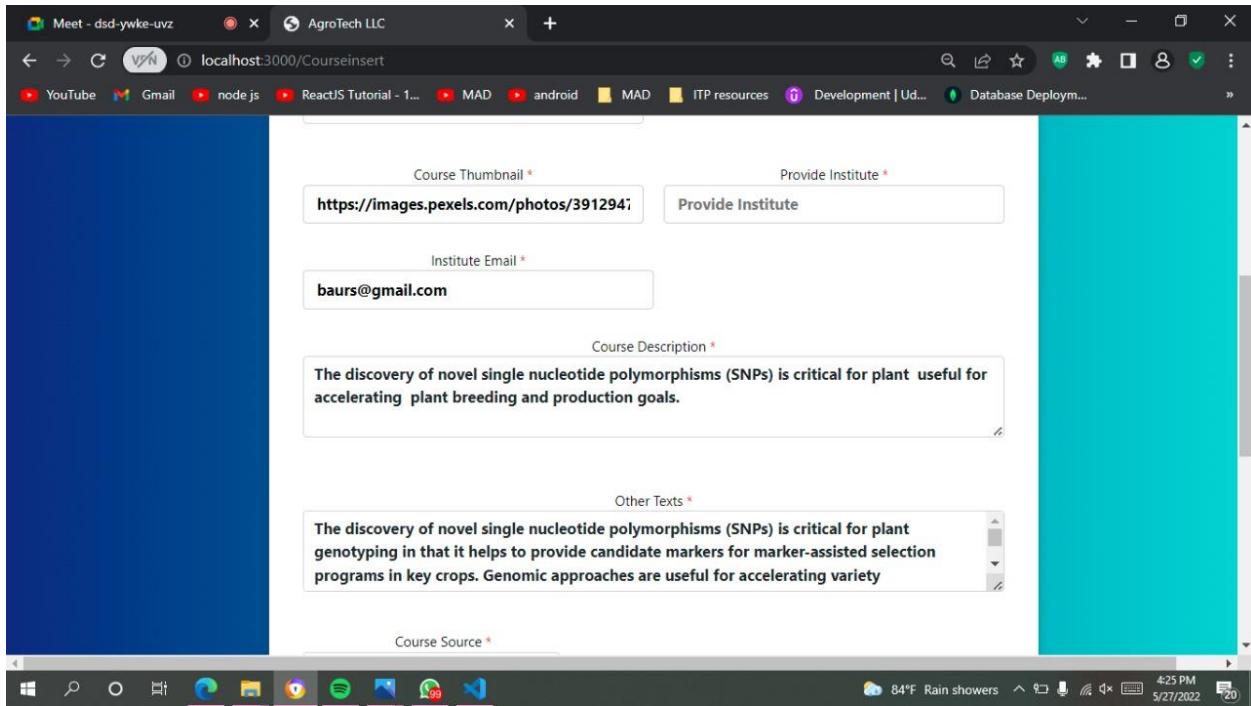


Figure 48Add new course ui 2

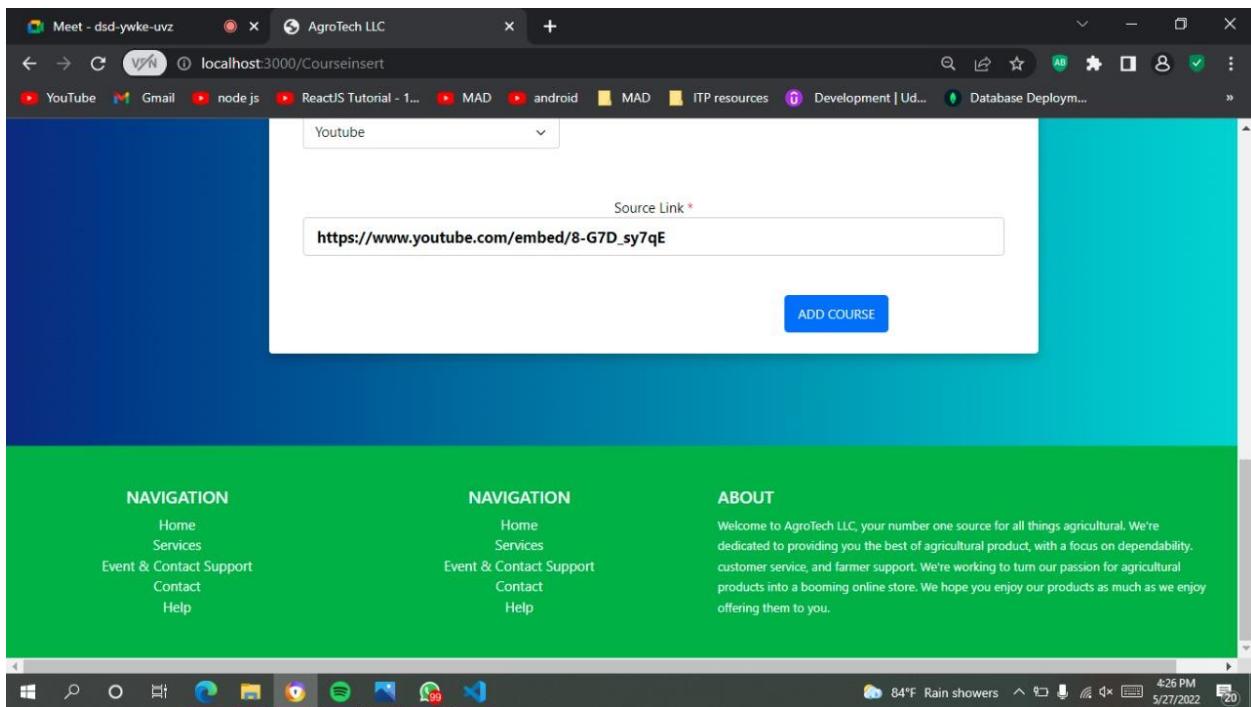


Figure 49Add new course ui 3

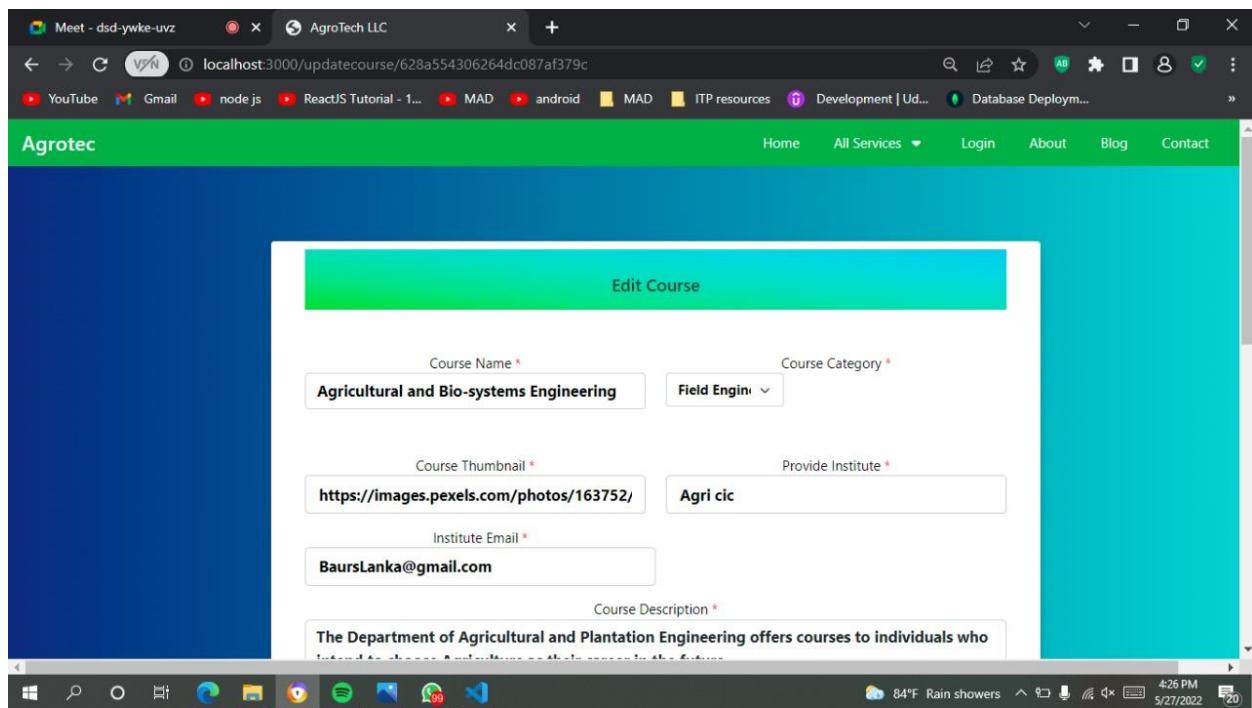


Figure 50 Update course ui 1

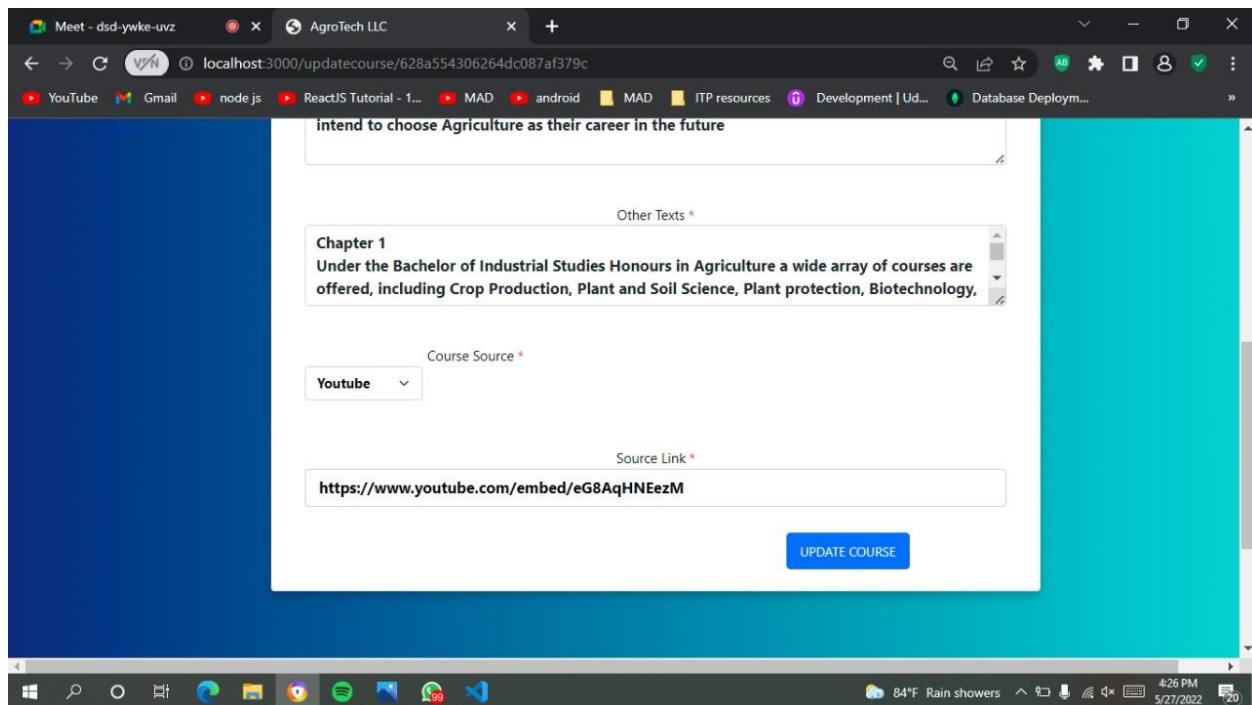


Figure 51 Update course ui 2

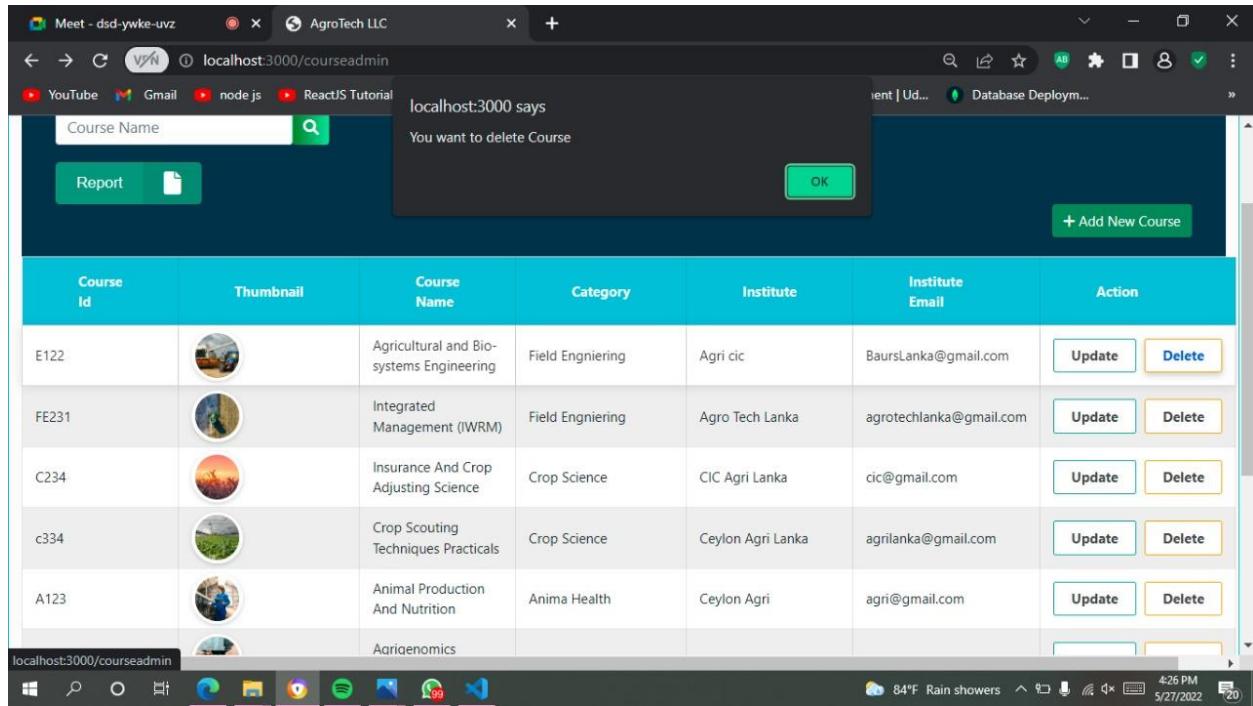


Figure 52 Course admin delete

The screenshot shows a web browser window titled 'localhost:3000/coursereport'. The page has a green header bar with the 'Agrotec' logo and navigation links for Home, All Services, Login, About, Blog, and Contact. The main content area is titled 'Course Programs Report' and features a 'Print' button. Below the title is a table with columns: Course Id, Course Name, Category, Course Source, Institute, and Institute Email. The table contains five rows of course data.

Course Id	Course Name	Category	Course Source	Institute	Institute Email
FE231	Integrated Management (IWRM)	Field Engniering	Youtube	Agro Tech Lanka	agrotechlanka@gmail.com
C234	Insurance And Crop Adjusting Science	Crop Science	Html5(mp4)	CIC Agri Lanka	cic@gmail.com
c334	Crop Scouting Techniques Practicals	Crop Science	External Url	Ceylon Agri Lanka	agrilanka@gmail.com
A123	Animal Production And Nutrition	Anima Health	Youtube	Ceylon Agri	agri@gmail.com
P124	Agrigenomics Solutions for Plants	Plant Science	Youtube	Baurs Lanka	baurs@gmail.com

Figure 53 Course admin report

Agrotec LLC

Signature :
May 27/ 2022 | 16h : 26min : 53sec

Course Id	Course Name	Category	Course Source	Institute	Institute Email
FE231	Integrated Management (IWM)	Field Engineering	Youtube	Agro Tech Lanka	agrotechlanka@gmail.com
C234	Insurance And Crop Adjusting Science	Crop Science	HTML5(mp4)	CIC Agri Lanka	cic@gmail.com
c334	Crop Scouting Techniques Practicals	Crop Science	External Url	Ceylon Agri Lanka	agrilanka@gmail.com
A123	Animal Production And Nutrition	Animal Health	Youtube	Ceylon Agri	agri@gmail.com
PT24	Agrigenomics Solutions for Plants	Plant Science	Youtube	Baurs Lanka	beurs@gmail.com

Figure 54 Course report pdf

Agrotec

CAREERS

Career Vacancies
You can build your future Career with us.

[Find Out More](#)

SUPPORT
GUIDANCE
Career Guidance Programs

Register as Candidate

UPCOMING EVENTS

Events

NAVIGATION

29°C Rain showers

NAVIGATION

File | C:/Users/Lenovo/Downloads/report_Agrotec%20ReportsFriMay27202216_26_54.pdf

ABOUT

10:15 AM 5/27/2022

Figure 55 Career Home

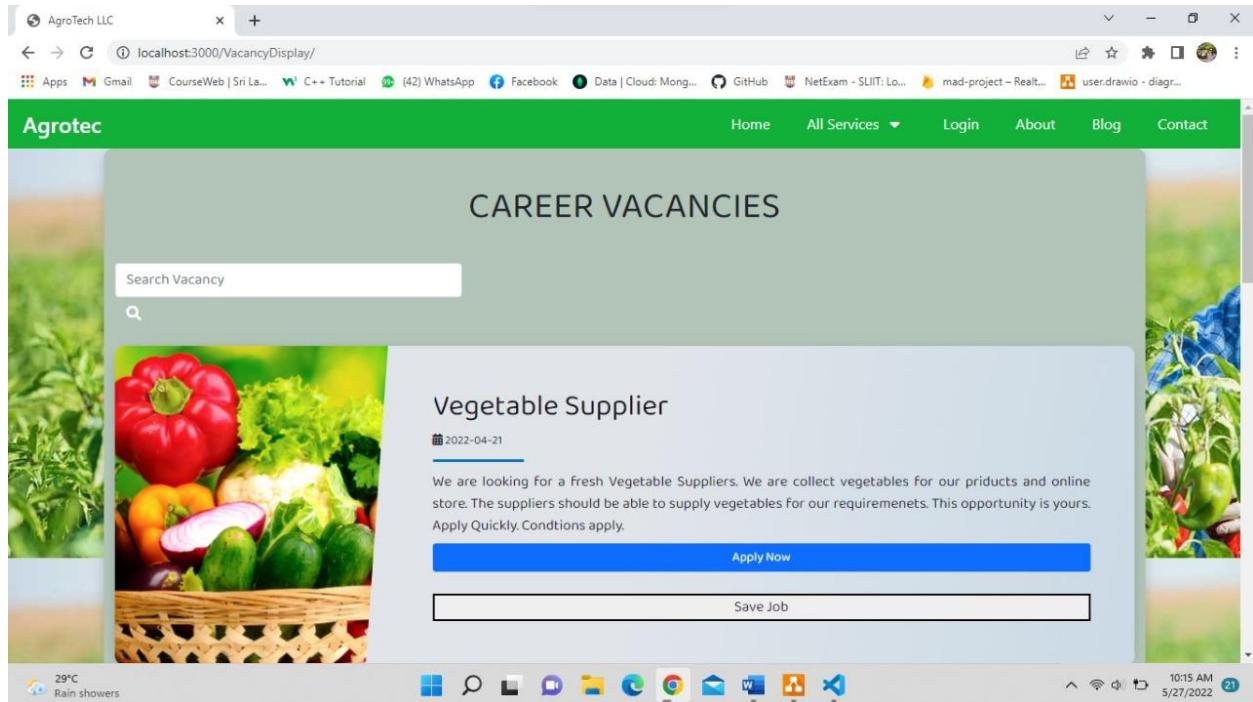


Figure 56 Vacancy display ui 1

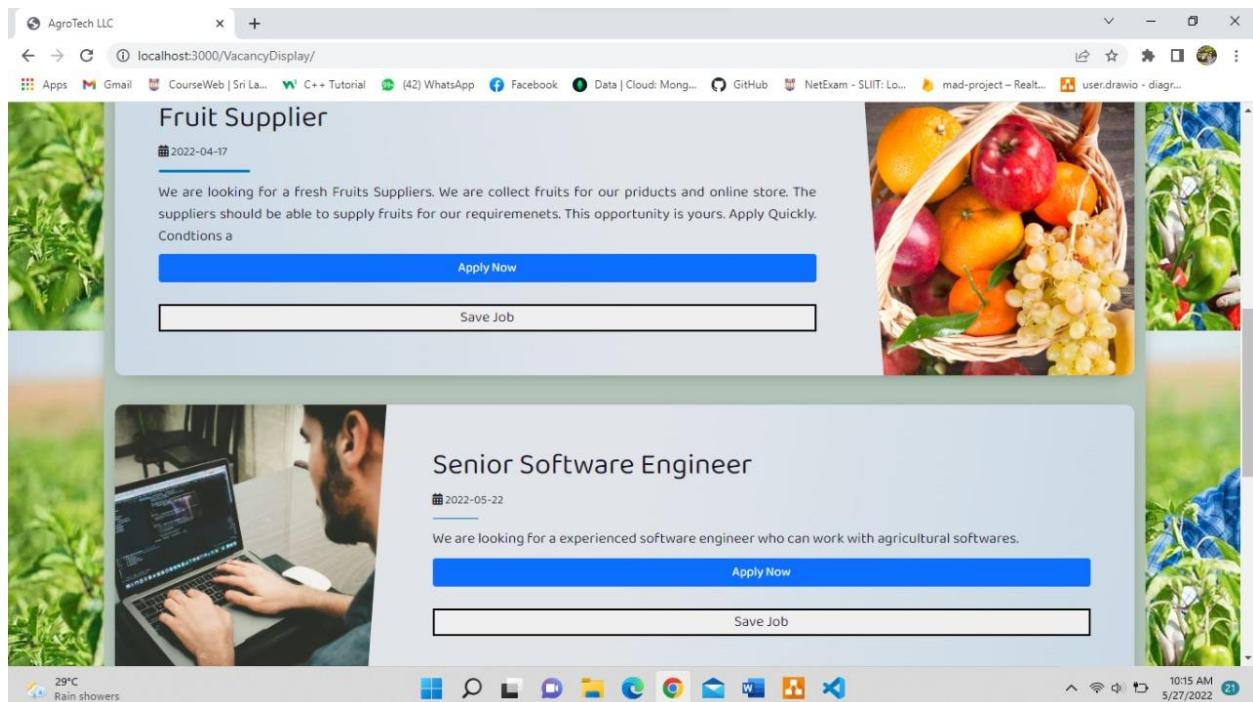


Figure 57 Career vacancy display ui 2

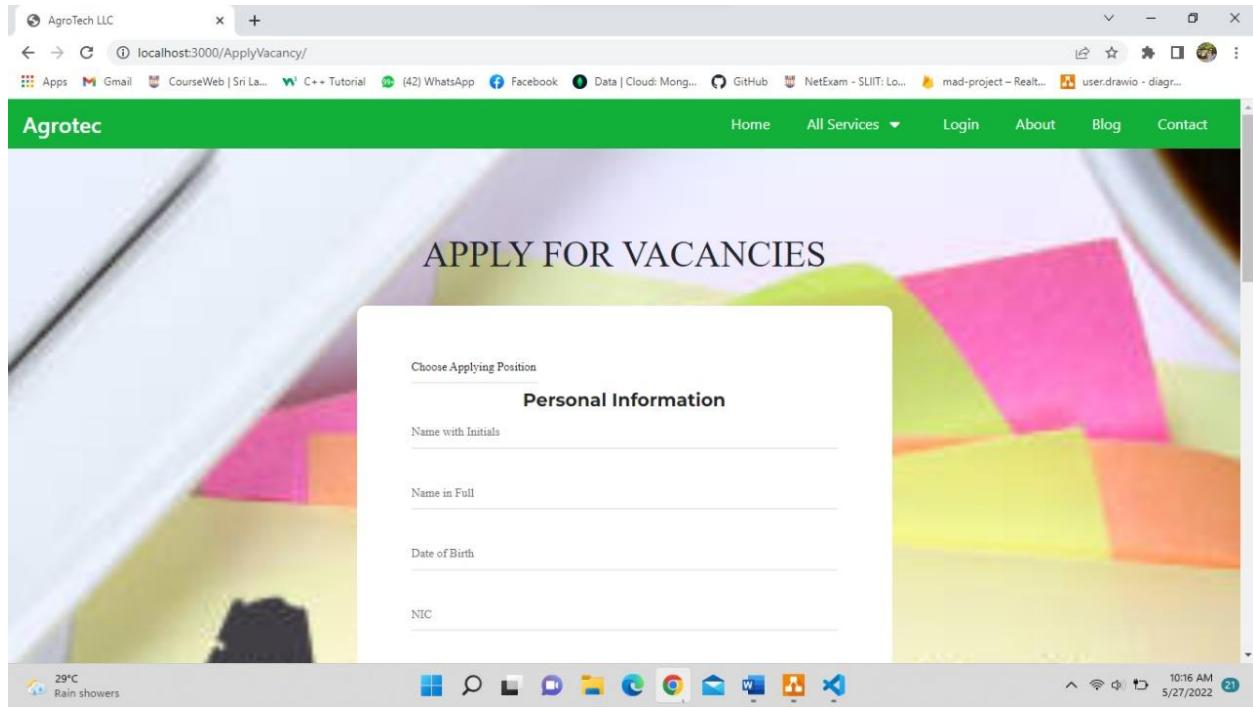


Figure 58 Apply Vacancy 2

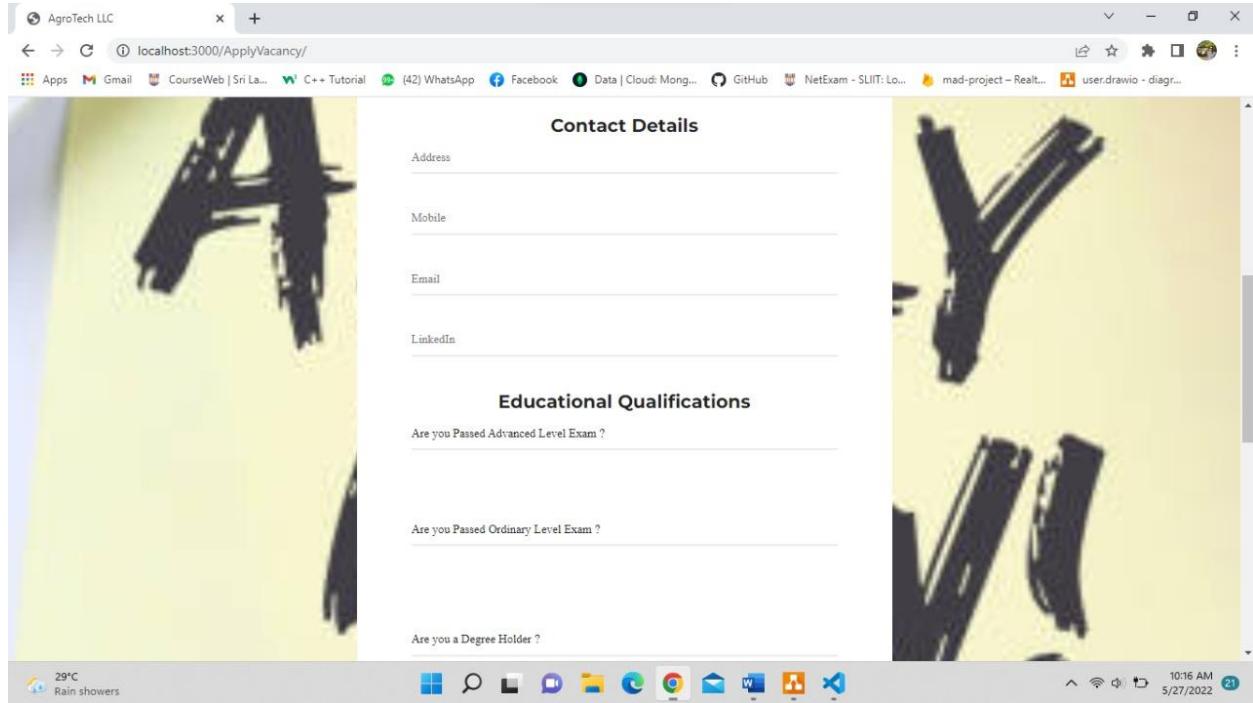


Figure 59 Apply vacancy 3

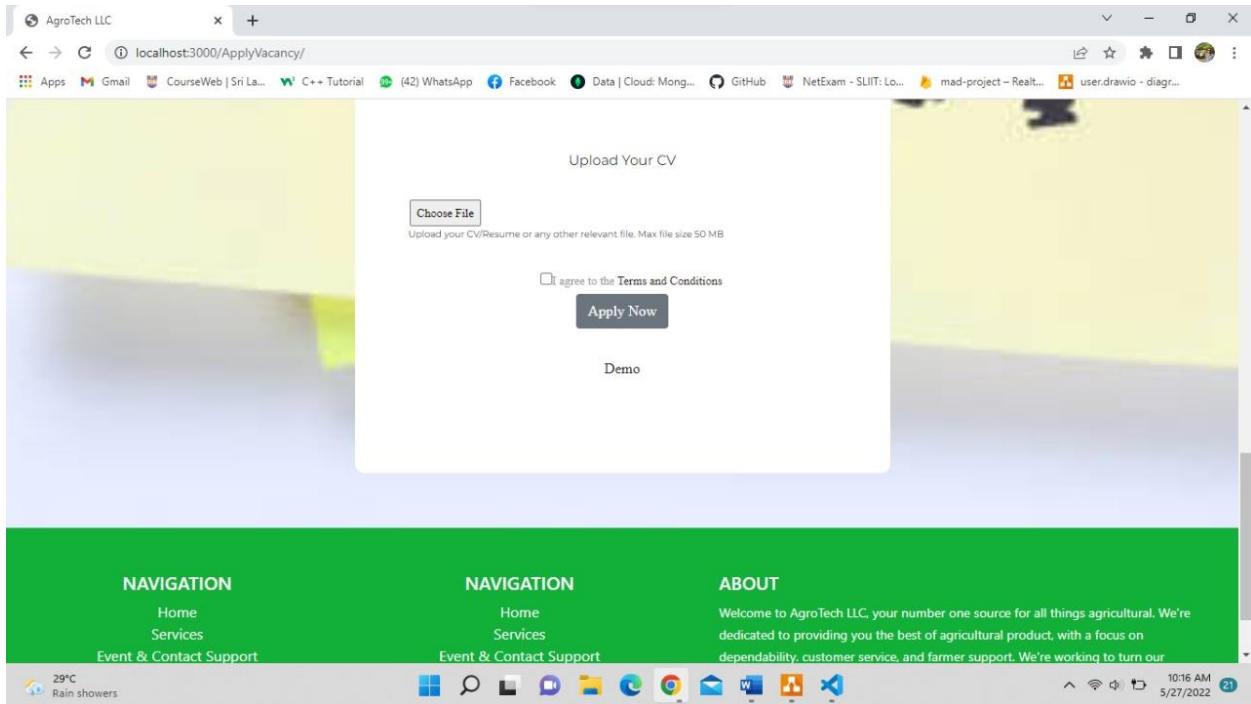


Figure 60 Apply vacancy 4

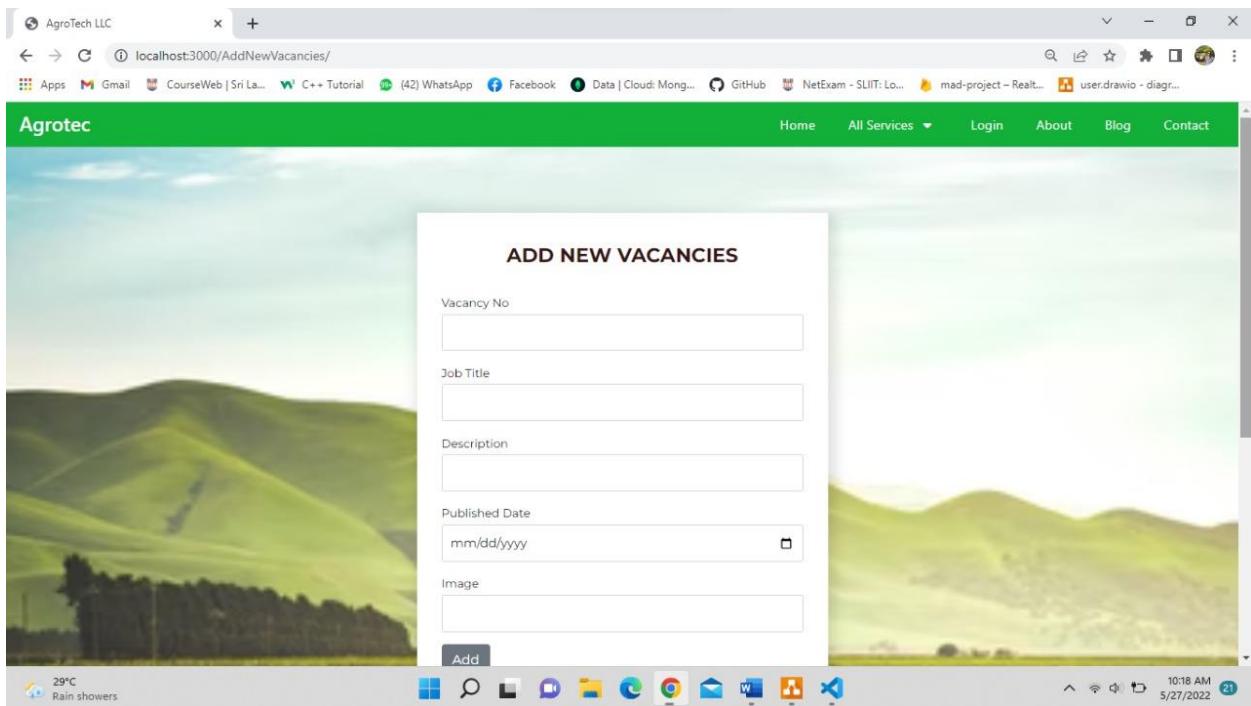


Figure 61 Add new vacancy

The screenshot shows a Microsoft Edge browser window with the title 'AgroTech LLC' and the URL 'localhost:3000/VacancyAdmin'. The page displays a table with columns: VacancyNo, Job Title, Job Description, Image, PublishedDate, Delete, and Update. The first row contains data for a vacancy with VacancyNo 'VA001', Job Title 'Vegetable Supplier', a detailed Job Description, an image link, the date '2022-04-21', and two buttons: 'Delete' (red) and 'Update' (yellow). The status bar at the bottom shows '29°C Rain showers' and the date '5/27/2022'.

VacancyNo	Job Title	Job Description	Image	PublishedDate	Delete	Update
VA001	Vegetable Supplier	We are looking for a fresh Vegetable Suppliers. We are collect vegetables for our products and online store. The suppliers should be able to supply vegetables for our requiremenets. This opportunity is yours. Apply Quickly.	https://www.simonbaynes.net/assets/template/images/york_fruit_and_veg.jpg	2022-04-21		

Figure 62 Vacancy admin dashboard

The screenshot shows a Microsoft Edge browser window with the title 'AgroTech LLC' and the URL 'localhost:3000/ApplyVacancyAdmin'. The page has a green header with the logo 'Agrotec' and navigation links: Home, All Services, Login, About, Blog, Contact. Below the header is a section titled 'CAREER VACANCY APPLICANTS' with a table. The table columns are: Position, Name with Initials, Full Name, DOB, NIC, Address, Mobile, Email, LinkedIn, O/L, and A/L. Three applicant rows are listed: 1. Software Engineer, LM Rubasinghe, Lalindu Mihisara Rubasinghe, 1999/04/16, 199910701911, Thelijjawila, 0776400813, mihisara.r99@hotmail.com, lalindumrubasinghe.linkedin.com, Yes, Yes. 2. Fruit Supplier, T.Thilakarathne, Tharindu Thilakarathne, 1998/04/20, 199810801969, Karapitiya, 0776606636, tharindu@gmail.com, (no LinkedIn link), Yes, Yes. 3. Warehouse, S.D.Senevirathene, Samitha, 2000/10/14, 199910802015, Kegalle, 0776400813, samitha@gmail.com, samithadilshan.linkedin.com, Yes, Yes. The status bar at the bottom shows '29°C Rain showers' and the date '5/27/2022'.

Position	Name with Initials	Full Name	DOB	NIC	Address	Mobile	Email	LinkedIn	O/L	A/L
Software Engineer	LM Rubasinghe	Lalindu Mihisara Rubasinghe	1999/04/16	199910701911	Thelijjawila	0776400813	mihisara.r99@hotmail.com	lalindumrubasinghe.linkedin.com	Yes	Yes
Fruit Supplier	T.Thilakarathne	Tharindu Thilakarathne	1998/04/20	199810801969	Karapitiya	0776606636	tharindu@gmail.com	(no LinkedIn link)	Yes	Yes
Warehouse	S.D.Senevirathene	Samitha	2000/10/14	199910802015	Kegalle	0776400813	samitha@gmail.com	samithadilshan.linkedin.com	Yes	Yes

Figure 63 Vacancy applicant dashboard

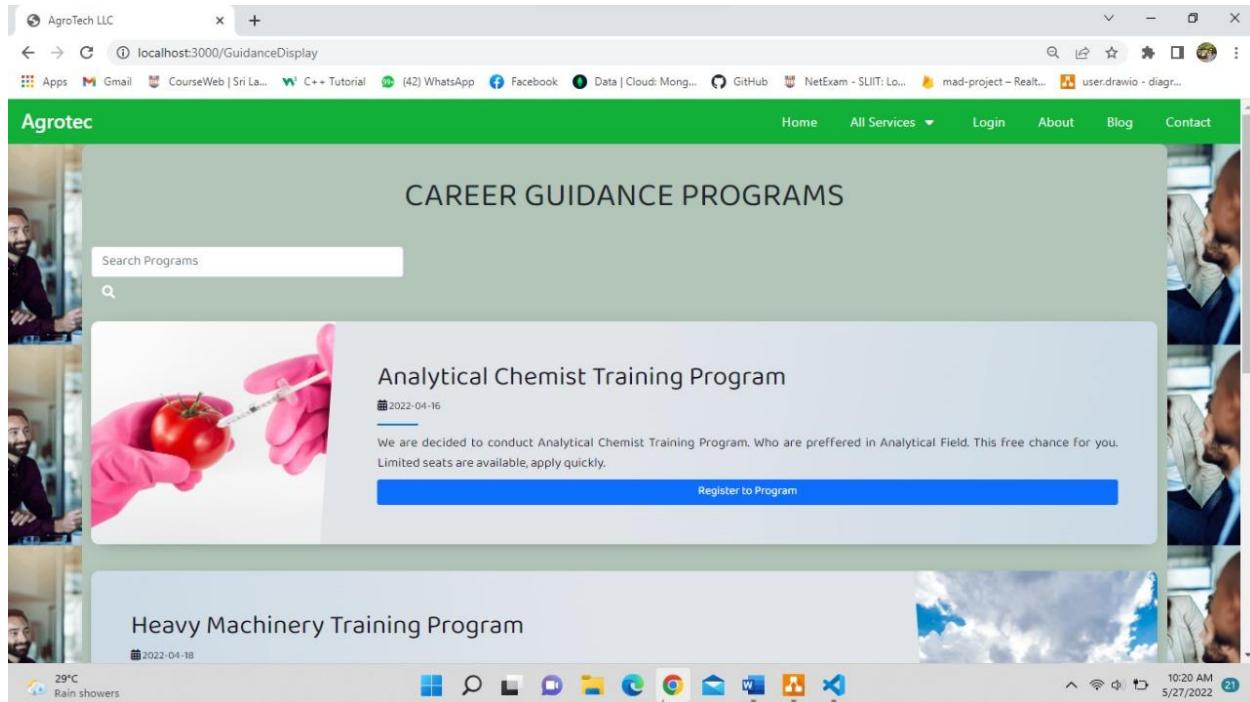


Figure 64 Guidance display

ProgramNo	Program Name	Description	Image	PublishedDate	Delete	Update
CG001	Analytical Chemist Training Program	We are decided to conduct Analytical Chemist Training Program. Who are preferred in Analytical Field. This free chance for you. Limited seats are available, apply quickly.	https://homeworkdoer.org/images/modified-1744952_640.jpg	2022-04-16		
	Heavy	We are planning to conduct 6 months heavy				

Figure 65 Applicant ui dashboard

The screenshot shows a web browser window for 'AgroTech LLC' at 'localhost:3000/ApplyVacancyAdmin'. The main content area displays a table of applicant information:

Fruit Supplier	T.Thilakarathne	Tharindu Thilakarathne	1998/04/20	199810801969	Karapitiya	0776606636	tharindu@gmail.com	Yes	Yes	
Warehouse Manager	S.D.Senevirathne	Samitha Dilshan	2000/10/14	199910802015	Kegalle	0776400813	samitha@gmail.com	samithadilshan.linkedin.com	Yes	Yes

Below the table is a 'Download Report' button. The page includes a navigation bar with links for Home, Services, Event & Contact Support, Contact, and Help. On the right, there's an 'ABOUT' section with a welcome message. The bottom of the screen shows a Windows taskbar with various icons and system status.

Figure 66Career ui 12

The screenshot shows a web browser window for 'AgroTech' at 'localhost:3000/ApplyVacancyAdmin'. The main content area displays a table of applicant information:

NIC	Address	Mobile	Email	LinkedIn	O/L	A/L	Degeree	CV	Delete	Call for Interview
16 199910701911	Thelijjawila	0776400813	mihisara.r99@hotmail.com	lalindumrubasinghe.linkedin.com	Yes	Yes	Yes	C:\fakepath\lalindu Mihisara Rubasinghe - CV.pdf	<button>Delete</button>	<button>Send Mail</button>
20 199810801969	Karapitiya	0776606636	tharindu@gmail.com		Yes	Yes	No		<button>Delete</button>	<button>Send Mail</button>
14 199910802015	Keoalle	0776400813	samitha@gmail.com	samithadilshan.linkedin.com	Yes	Yes	Yes	C:\fakepath\lalindu Mihisara	<button>Delete</button>	<button>Send</button>

The top navigation bar includes links for Home, All Services, Login, About, Blog, and Contact. The bottom of the screen shows a Windows taskbar with various icons and system status.

Figure 67Applicant ui dashboard

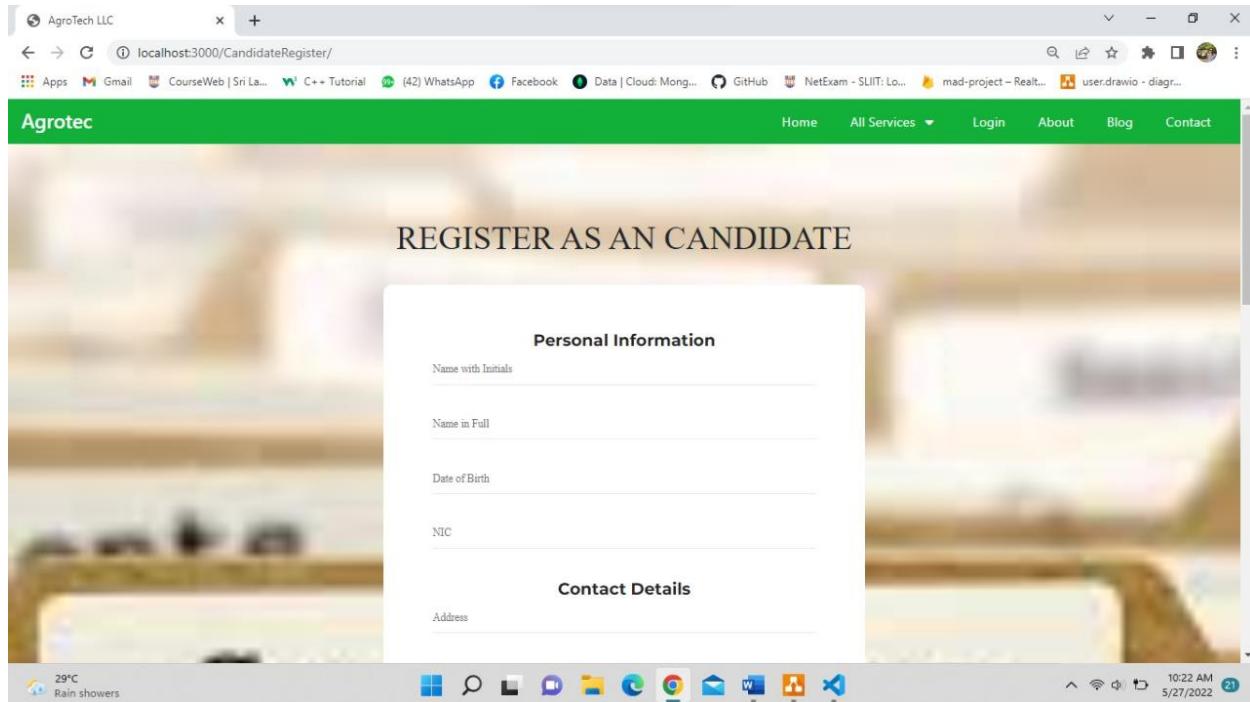


Figure 68 Register candidate ui 1

A screenshot of a web browser window showing the 'Apply Guidance Admin' page. The title bar says 'localhost:3000/ApplyGuidanceAdmin'. The main content area has a green header 'Agrotec' with navigation links: Home, All Services, Login, About, Blog, Contact. Below the header is a table titled 'GUIDANCE PROGRAM APPLICANTS'. The table has columns: Program, Name with Initials, Full Name, NIC, Address, Mobile, Email, O/L, Delete, and Call for Program. Three rows of data are listed:

Program	Name with Initials	Full Name	NIC	Address	Mobile	Email	O/L	Delete	Call for Program
Product Development Training	S.C. Amarasena	Sandun Chathuranga Amarasena	199904701911	Wanduramba	0778501789	sandun@gmail.com	Yes		
Analytical Chemist Training	S.D. Samarasinghe	Sadisha Dilmin Samarasinghe	200010801969	Piliyandala	0708804596	sadishlk@gmail.com	Yes		
Analytical Chemist Training	A. Gamage	Akila Gamage	199918001978	Hiyare	0708804596	akila@gmail.com	Yes		

The system tray at the bottom shows the date as 5/27/2022 and the time as 10:21 AM.

Figure 69 Guidance applicant ui 1

The screenshot shows a web browser window titled 'AgroTech LLC' at 'localhost:3000/CandidateAdmin'. The page header includes 'Agrotec' and links for Home, All Services, Login, About, Blog, and Contact. Below the header is a section titled 'REGISTERED CANDIDATES' containing a table of candidate information. The table has columns for Name with Initials, Full Name, DOB, NIC, Address, Mobile, Email, LinkedIn, O/L, A/L, Degeree, and CV. Two rows of data are visible:

Name with Initials	Full Name	DOB	NIC	Address	Mobile	Email	LinkedIn	O/L	A/L	Degeree	CV
LM Rubasinghe	Lalindu Mihisara Rubasinghe	1999/04/16	199904701911	Thelijjawila	0776400813	mihisarademax99@gmail.com	lalindumrubasinghe.linkedin.com	Yes	Yes	Yes	C:\fa Mihi - CV
S.M Rubasinghe	Sithma Methsarani Rubasinghe	2001/10/17	200110401719	Nupe	0778501458	sithma.m20@gmail.com	sithmamethsarani.linkedin.com	Yes	Yes	No	C:\fa train form

At the bottom left is a 'Download Report' button. The system tray shows weather (29°C Rain showers), system icons, and the date/time (10:22 AM 5/27/2022).

Figure 70 Career ui Register candidate

Agrotec LLC

The screenshot shows a web browser window titled 'AgroTech LLC' at 'localhost:3000/CandidateAdmin'. The page header includes 'Agrotec' and links for Home, All Services, Login, About, Blog, and Contact. Below the header is a section titled 'Signature : May 23/ 2022 | 9h : 51min : 12s' containing a table of candidate information. The table has columns for Position, Name with Initials, Full Name, DOB, NIC, Address, Mobile, Email, LinkedIn, O/L, A/L, Degeree, and CV. Three rows of data are visible:

Position	Name with Initials	Full Name	DOB	NIC	Address	Mobile	Email	LinkedIn	O/L	A/L	Degeree	CV
Software Engineer	LM Rubasinghe	Lalindu Mihisara Rubasinghe	1999/04/16	199910701911	Thelijjawila	0776400813	mihisarademax99@hotmail.com	lalindumrubasinghe.linkedin.com	Yes	Yes	Yes	C:\kekpathi\lalindu Mihisara Rubasinghe - CV.pdf
Fruit Supplier	T.Thilakarathne	Tharindu Thilakarathne	1998/04/20	199810601968	Kerapitiya	0776006638	tharindu@gmail.com		Yes	Yes	No	
Warehouse Manager	S.O.Senevirathne	Samitha Dilshan	2000/10/14	199910802015	Kegalle	0776400813	samithadilshan@gmail.com	samithadilshan.linkedin.com	Yes	Yes	Yes	C:\kekpathi\lalindu Mihisara Rubasinghe - CV.pdf

Figure 71 Applicant ui report

Company Name		Company Email	Report About	Lab ID	Report Status	Action
1	Citress Farm	Citress1@gmail.com	Checking Farm soils for get an Idea about to is that land is suitable for Apple farming	Lab5a	pass	EDIT DELETE
2	Galadhari Hotell	galadhari1@gmail.com	Checking Farm soils for get an Idea about to is that land is suitable for potato farming	Lab5a	pass	EDIT DELETE
3	Agro Farm	Agro@gmail.com	Checking Farm soils for get an Idea about to is that land is suitable for potato farming	Lab5a	fail	EDIT DELETE

[+ Add New Report](#)
[⬇ Download Report](#)

Figure 72Laboratory technician ui

Agrotec

Home All Services ▾ Login About Blog Contact

Create New Lab report

Company Name
Enter Company Name

Company Email
Enter Company Email

Lab Report About
About

Figure Lab report form ui 1

Lab Report About
About

Lab ID
Enter Lab Id

Lab Report Status
Enter Report Status

Save Report

Demo

Figure 73Lab report form ui 2

Agrotec

Home All Services ▾ Login About Blog Contact

Citress Farm Lab Report Details

Company Name	Company Email
Citress Farm	Citress1@gmail.com
Lab Report About	
Checking Farm soils for get an Idea about to is that land is suitable for Apple farming	
Lab ID	Lab Report Status
Lab5a	pass

Ok

The screenshot shows a web application interface for managing lab reports. At the top, there's a green header bar with the 'Agrotec' logo and navigation links for Home, All Services (with a dropdown arrow), Login, About, Blog, and Contact. Below the header is a dark grey sidebar on the left and a light green main content area on the right. In the center, there's a white rectangular form titled 'Citress Farm Lab Report Details'. The form contains several input fields and sections. At the top left is a 'Company Name' field containing 'Citress Farm'. To its right is a 'Company Email' field containing 'Citress1@gmail.com'. Below these is a section titled 'Lab Report About' with a text area containing the text 'Checking Farm soils for get an Idea about to is that land is suitable for Apple farming'. Underneath this is another row of input fields: 'Lab ID' (containing 'Lab5a') and 'Lab Report Status' (containing 'pass'). At the bottom left of the form is a green button labeled 'Ok'.

Figure 74Lab report admin report data



Figure 75Lab report edit ui

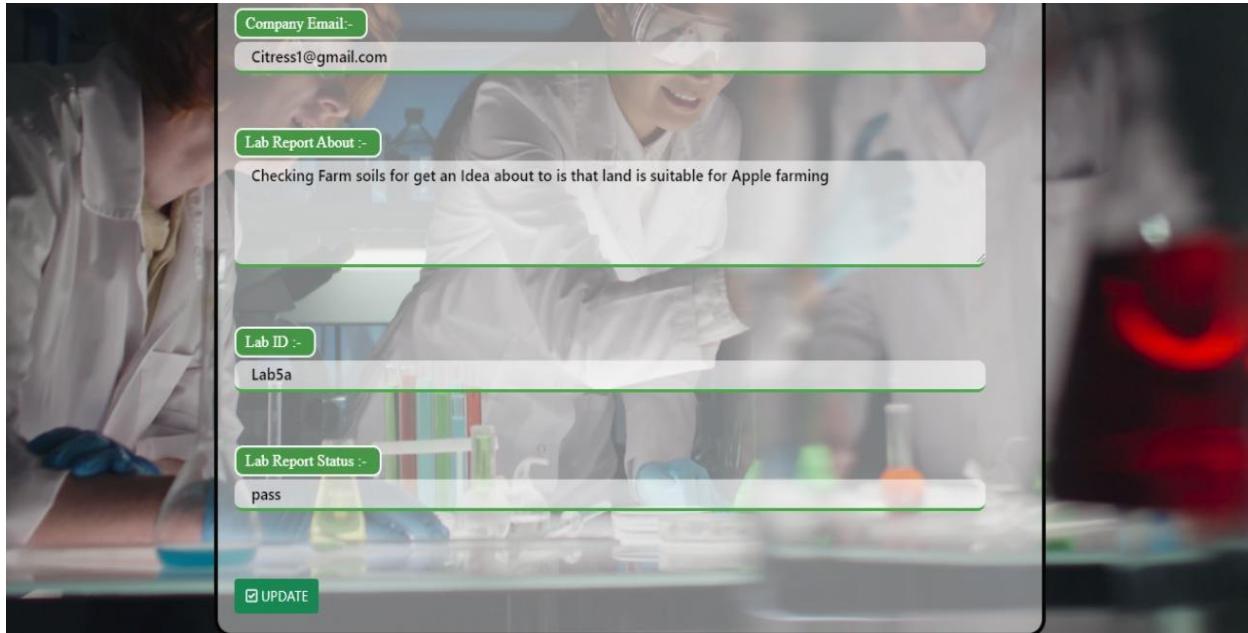


Figure 76Lab report edit ui 2

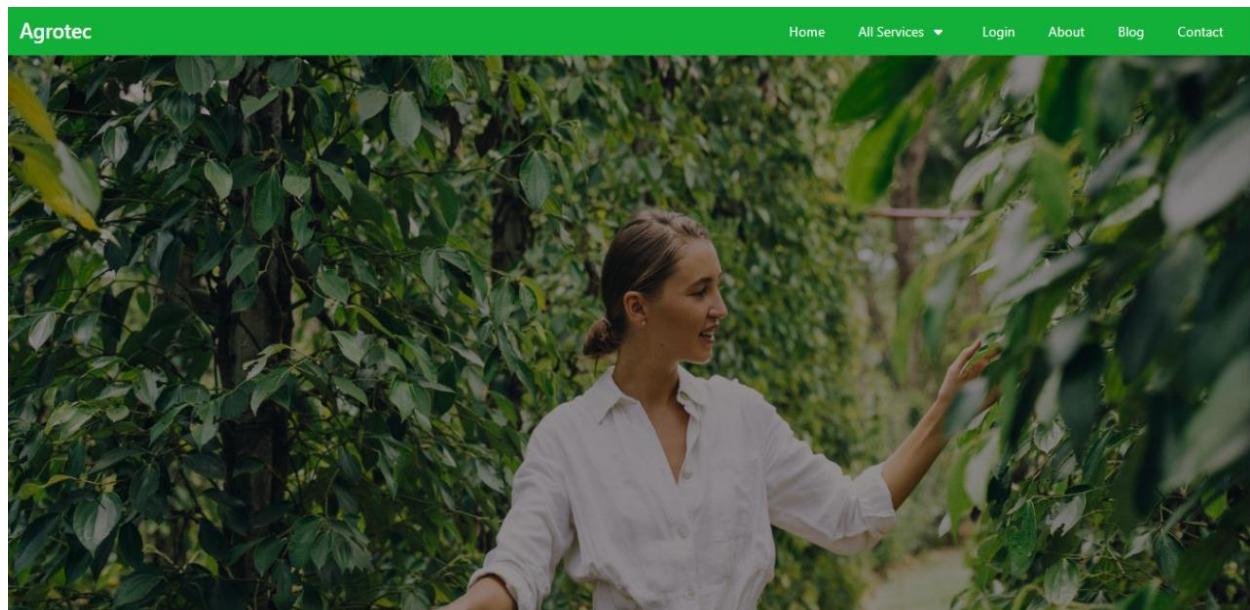


Figure 77All Lab report user

A screenshot of a web application interface. At the top left is a search bar with the placeholder "Search By Company Name". Below it are two card-like entries, each representing a lab report.

Citress Farm
Citress1@gmail.com
Checking Farm soils for get an Idea about to is that land is suitable for Apple farming
[VIEW REPORT](#)

Galadhari Hotell
galadhari1@gmail.com
Checking Farm soils for get an Idea about to is that land is suitable for potato farming
[VIEW REPORT](#)

Figure 78All lab report user 2

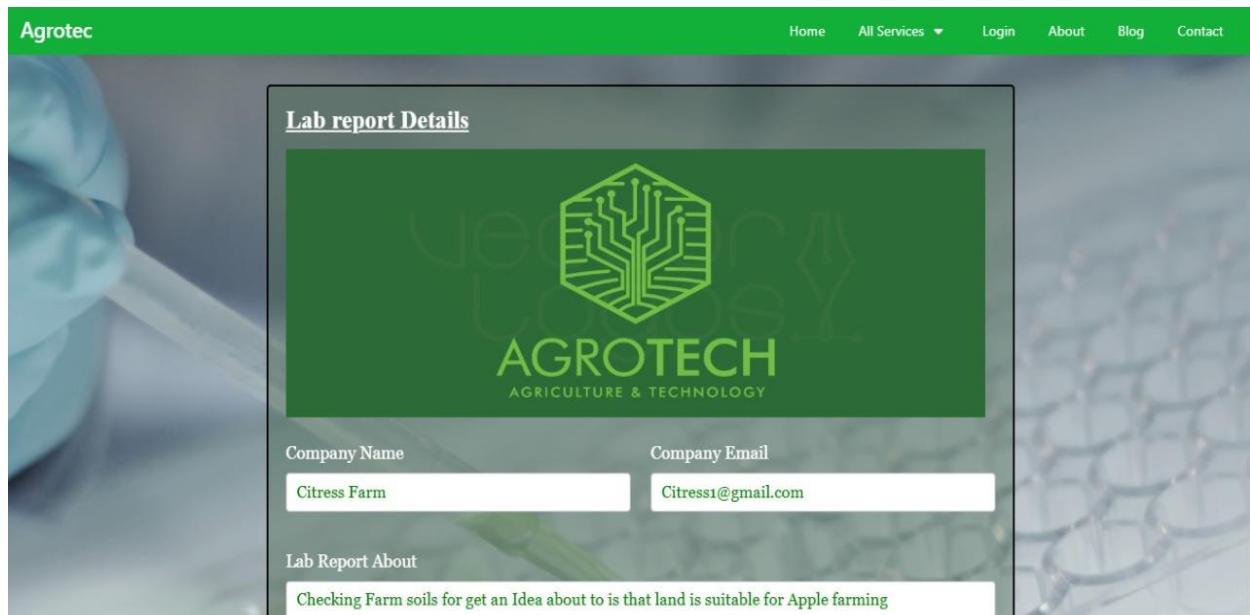


Figure 79User specific lab report ui 1

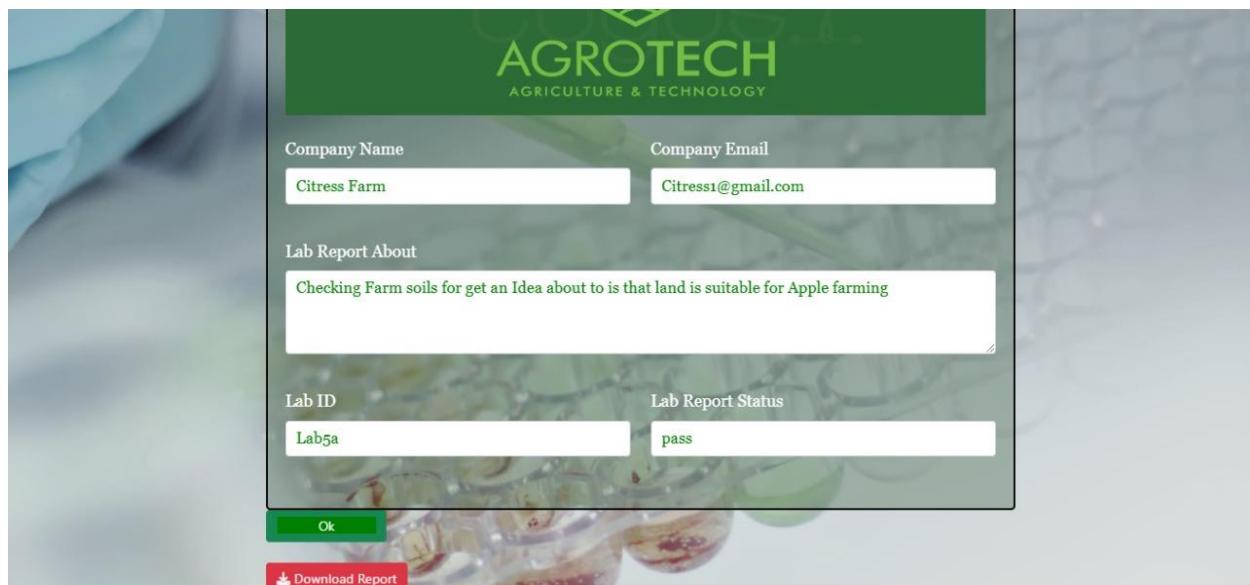


Figure 80User specific lab report ui 2

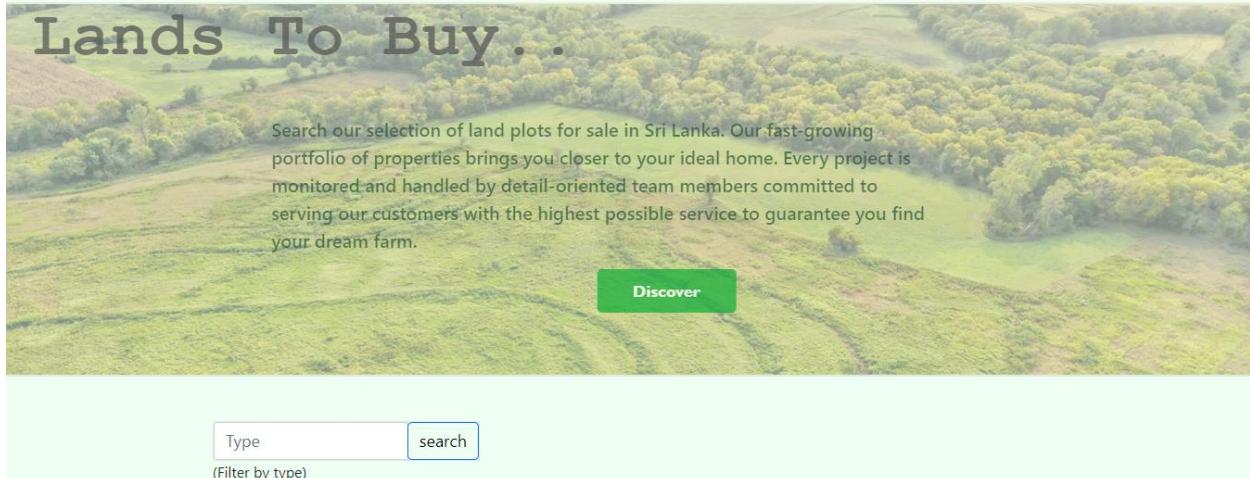


Figure 81 Land sale home ui 1

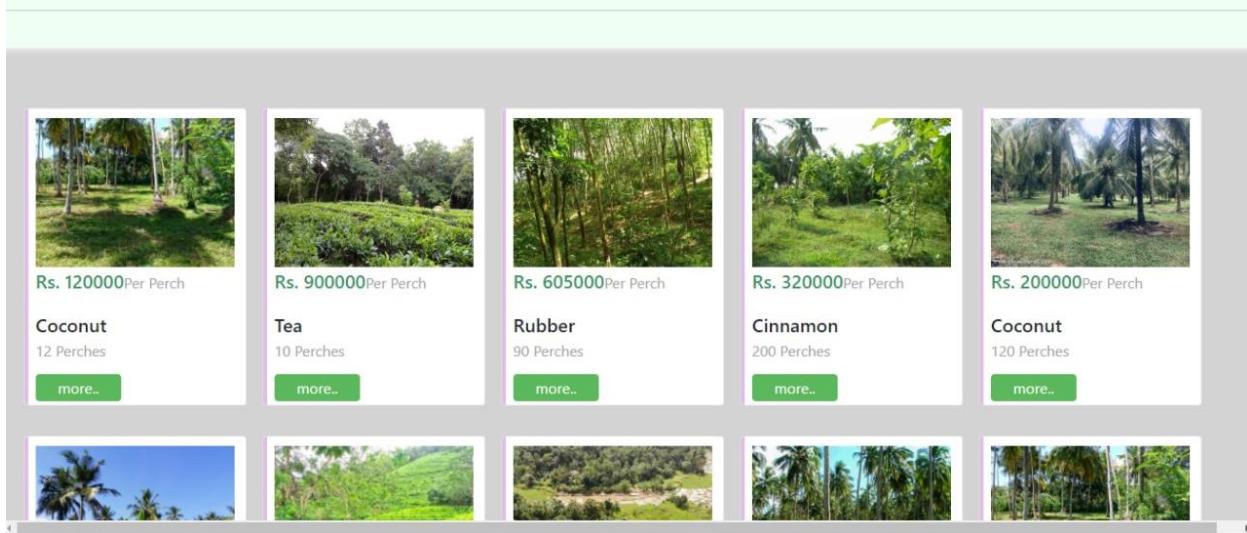


Figure 82 Land sale all ad ui

Agrotec		Home	All Services ▾	Login	About	Blog	Contact	
Good Night Admin								
		Download Report	Create New Advertisement					
No. Description								
1	1.5km from kurusa kanuwa junction (Nittambuwa-Airport road). 5 km away from Katunayake international airport & Minuwangoda town. Land is facing to a paddy field & a river.	Type	Coconut	Price(Rs.)	120000	Size(Purches)	Action	
2	Well maintained tea estate 150 acres 25 million monthly income from tea harvesting 120000kg of tea harvest per month Natural waterfall 200 coconut trees 100 banana trees All labour quarters and facilities available Easy access roads	Type	Tea	900000	10		Edit Delete	
3	HOMAGAMA, KIRIWATTUDUWA.... 4 ACRES RUBBER LAND AT KIRIWATTUDUWA CLOSE TO TECH CITY, HOMAGAMA This superb land facing 20ft carpeted road and paddy field Rapidly developing area This is ideal for housing development project or land blocking project.	Type	Rubber	605000	90		Edit Delete	
4	Villa or any other Eco tourism. Nearly five lacks worth cinnamon could be harvested immediately. Tourist attraction with mangroves trees and river around this land. Four	Type	Cinnamon	320000	200		Edit Delete	
5	1.5km from kurusa kanuwa junction (Nittambuwa-Airport road). 5 km away from Katunayake international airport & Minuwangoda town. Land is facing to a paddy field & a river.	Type	Coconut	200000	120		Edit Delete	

Figure 83Land sale admin ui

Agrotec

Home All Services ▾ Login About Blog Contact

Advertiser Form

Type

Town

AgentRef

Heading

Figure 84Add advertisement ui 1

Image

SUBMIT

Demo

NAVIGATION

- Home
- Services
- Event & Contact Support
- Contact
- Help

NAVIGATION

- Home
- Services
- Event & Contact Support
- Contact
- Help

ABOUT

Welcome to AgroTech LLC, your number one source for all things agricultural. We're dedicated to providing you the best of agricultural product, with a focus on dependability, customer service, and farmer support. We're working to turn our passion for agricultural products into a booming online store. We hope you enjoy our products as much as we enjoy offering them to you.

Copyright © 2022 Agriculture Management

Figure 85Add advertisement ui 2

Agrotec

Home All Services ▾ Login About Blog Contact

Edit Advertisement

Town
Kutunayaka

AgentRef
Home lands Agro

Heading
Land for sale

Description

1.5km from kurusa kanuwa junction (Nittambuwa-Airport road). 5 km away from Kutunayake internatc

Size of Area

Figure 87Edit advertisement ui 1

Size of Area
12

Price Rate
120000

Contact Name
hasantha kumara

Email
nimsrilak@gmail.com

Phone
0702449679

Image
<https://th.bing.com/th/id/R.af33f17558bd971ed68403483f4a1c4a?rik=Y4WMeusyShvTrA&riu=http%3a%2f%2fwww.agrotec.lk%2fwp-content%2fuploads%2f2017%2f07%2fagro-tractor-1024x683.jpg>

Update

Figure 86Edit advertisement ui 2

developing area This is ideal for housing development project or land blocking project.			
4 Villa or any other Eco tourism. Nearly five lacks worth cinnamon could be harvested immediately. Tourist attraction with mangroves trees and river around this land. Four	Cinnamon	320000	200
5 1.5km from kurusa kanuwa junction (Nittambuwa-Airport road). 5 km away from Katunayake international airport & Minuwangoda town. Land is	Coconut	200000	120
6 1.5 km from main road. Nearly 1000 coconut trees days. The land could be devided into two lands and		201000	102
7 small productive tea estate, in Nawalapitiya Close p with good access and great views		12000	100
8 Villa or any other Eco tourism. Nearly five lacks wo Tourist attraction with mangroves trees and river ar		100000	10
9 1.5km from kurusa kanuwa junction (Nittambuwa-A international airport & Minuwangoda town. Land is		200000	120
10 1.5km from kurusa kanuwa junction (Nittambuwa-A international airport & Minuwangoda town. Land is	Cinnamon	101330	123
11 1.5km from kurusa kanuwa junction (Nittambuwa-Airport road). 5 km away from Katunayake international airport & Minuwangoda town. Land is facing to a paddy field & a river		101330	123

Figure 89Admin prompt ui 1

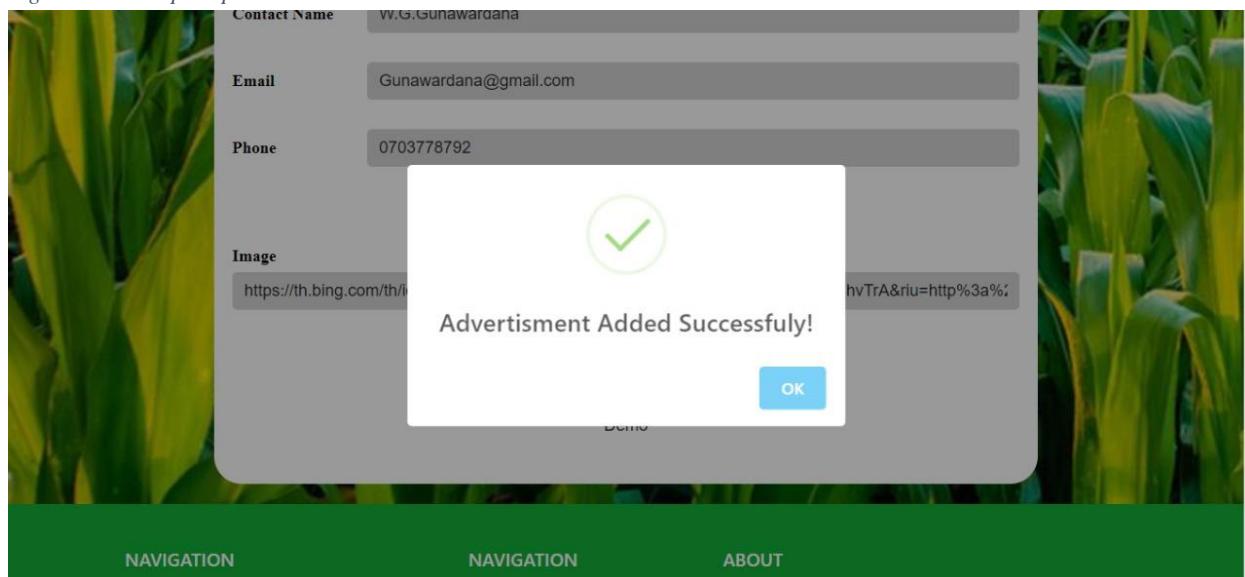


Figure 88Admin prompt ui 2

[Back](#)

Figure 91Advertisement view ui 1

Property Details

1.5km from kurusa kanuwa junction (Nittambuwa-Airport road). 5 km away from Katunayake international airport & Minuwangoda town. Land is facing to a paddy field & a river.

Contact Advertiser (hasantha kumara)

Phone : 0702449679

Email : nimsrilak@gmail.com

[Contact Me](#)

NAVIGATION

NAVIGATION

ABOUT

Figure 90Advertisement view ui 2

The screenshot shows the 'ManageEvents' section of the Agrotec website. At the top, there's a green header bar with the 'Agrotec' logo and navigation links for Home, All Services, Login, About, Blog, and Contact. Below the header is a dark banner with the text 'ManageEvents' and a '+ Add New Events' button. The main content area displays a table of events:

EVENT ID	EVENT NAME	CATEGORY	START_DATE	START_TIME	VENUE
E001	crop protection 2022	Agricultural	07/2/2022	12.00 p.m.	Colombo,Citycenter
E123	crop protection 2022	Animal	07/2/2022	12.00 p.m.	galle

Each row has 'Delete' and 'Update' buttons. The background features a stylized green field and agricultural icons.

Figure 92Event admin dashboard

The screenshot shows the 'Event Registration' page. The header is identical to the dashboard, with the 'Agrotec' logo and navigation links. The main form is titled 'Event Registration' and includes fields for:

- A checkbox labeled 'Will You be attending to this event?'
- 'Full Name' and 'Address' input fields
- 'Email' field containing '@gamil.com' and 'Phone Number' input field
- 'No of Guests' dropdown menu set to 'Choose...'
- A checkbox labeled 'Check me out'
- A large green dollar sign icon
- A blue 'Register' button
- A blue 'Demo' button

The background features a photograph of a green field with agricultural icons overlaid.

Figure 93Event register form

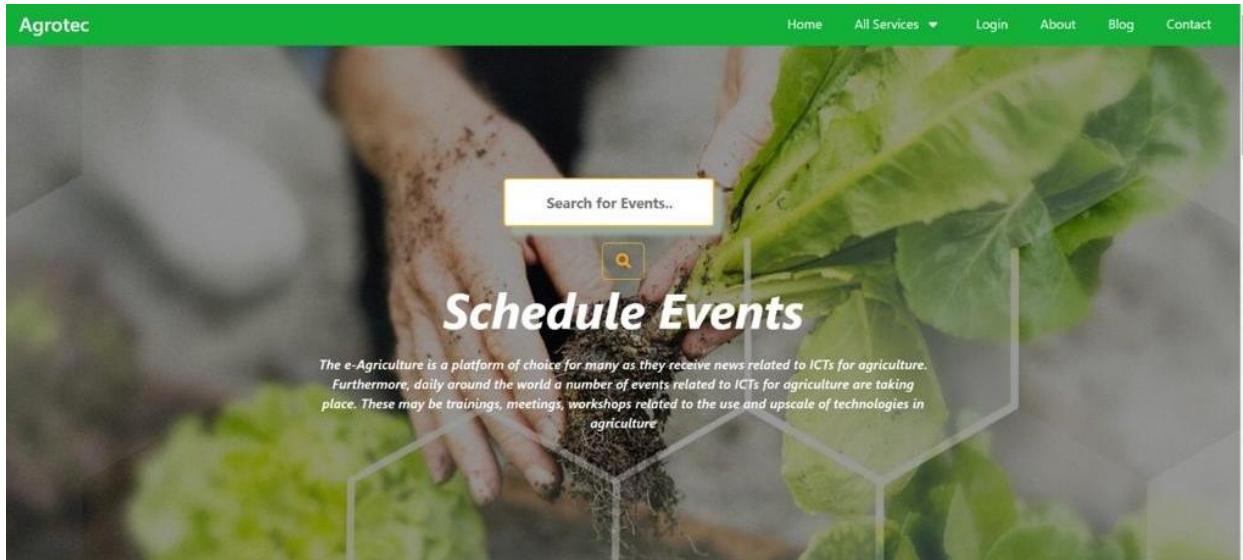


Figure 94Event home page ui 1



Figure 95Event home page ui 2



Figure 96Event home page 3

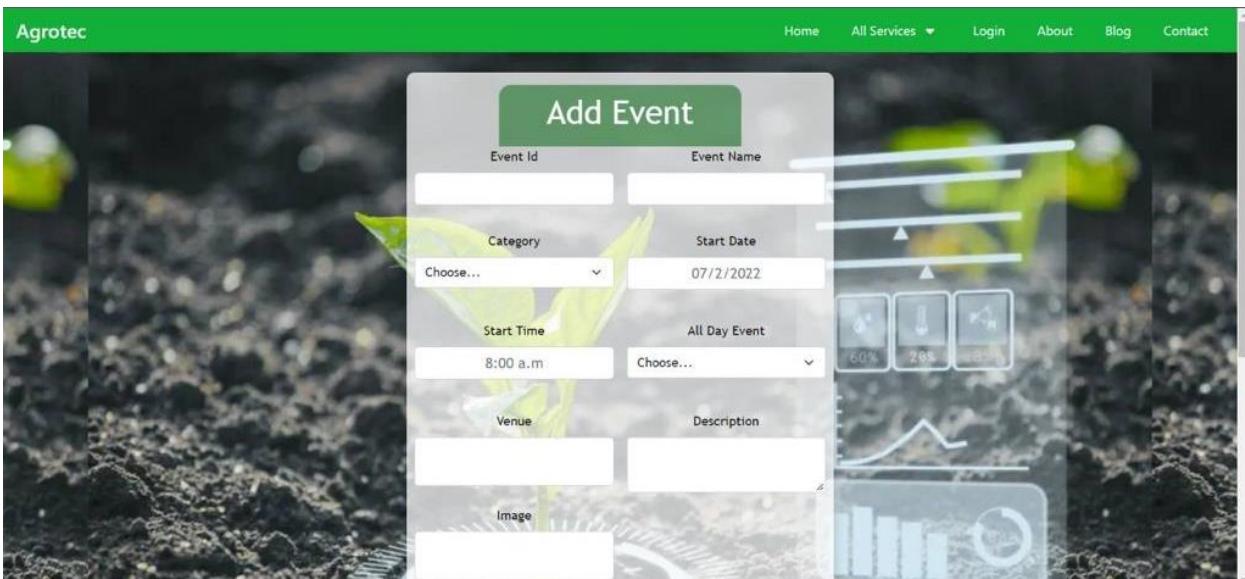


Figure 97Event add event ui 1

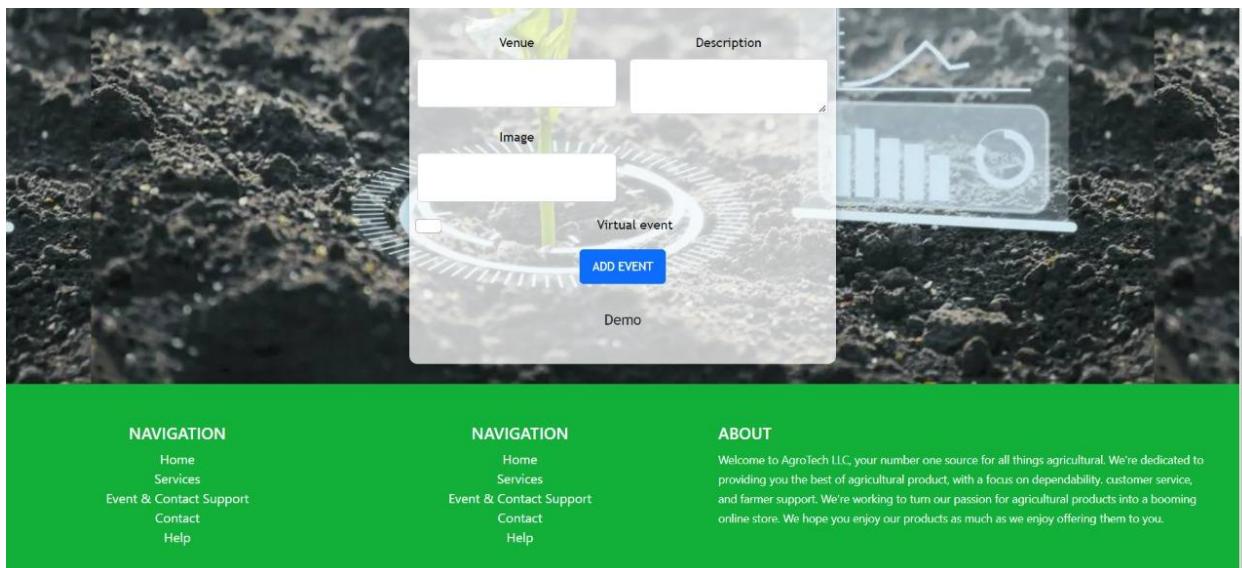


Figure 98Event Add event ui 2



Figure 99Loan home page

Agrotec

Home All Services ▾ Login About Blog Contact

Loan Registration

Loan Id	Identity_No
Name with Initials	
Nearest Branch	Age
Phone Number	
Email	Profession
@gamil.com	
Account_Number	Agriculture_Income
Name_of_the_Bank	Name_of_the_Branch

Figure 100 Loan registration 1

Loan Registration

Name_of_the_Bank	Name_of_the_Branch
Declaration	
<input type="checkbox"/> Check me out	
Register	
Demo	

NAVIGATION

- Home
- Services
- Event & Contact Support
- Contact
- Help

NAVIGATION

- Home
- Services
- Event & Contact Support
- Contact
- Help

ABOUT

Welcome to AgroTech LLC, your number one source for all things agricultural. We're dedicated to providing you the best of agricultural product, with a focus on dependability, customer service, and farmer support. We're working to turn our passion for agricultural products into a booming online store. We hope you enjoy our products as much as we enjoy offering them to you.

Figure 101 Loan registration 2

ELIGIBLE LIST FOR LOANS						
LOAN ID	IDENTITY NO	NAME WITH INITIALS	AGE	PHONE NUMBER	EMAIL	MANAGE
L02	991203931V	senevirathne.W.S.S	24	+977367200	tharindu@gmail.com	<button>Delete</button>
L003	99789444V	W.S.M.S.L.Senevirathne	25	0718008789	sahanlak56@gmail.com	<button>Delete</button>
loo4	9943667782	w.s.m.weerasekara	34	07646683882	samithadilshan59@gmail.com	<button>Delete</button>
loo9	9943667782	w.s.m.weerasekara	34	07646683882	samithadilshan59@gmail.com	<button>Delete</button>
L006	9912045677V	T.D.B.M Abewardhana	35	07180098989	abewardhana78@gmail.com	<button>Delete</button>
loo9	9943667782	w.s.m.weerasekara	34	07646683882	samithadilshan59@gmail.com	<button>Delete</button>

Figure 102Loan admin

Eligible List For Loans							
LOAN ID	IDENTITY NO	NAME WITH INITIALS	AGE	PHONE NUMBER	EMAIL	AMOUNT	ELIGIBLE STATUS
L02	991203931V	senevirathne.W.S.S	24	+977367200	tharindu@gmail.com	23000	Eligible
L003	99789444V	W.S.M.S.L.Senevirathne	25	0718008789	sahanlak56@gmail.com	10000	Not Eligible
loo4	9943667782	w.s.m.weerasekara	34	07646683882	samithadilshan59@gmail.com	56000	Eligible
loo9	9943667782	w.s.m.weerasekara	34	07646683882	samithadilshan59@gmail.com	56000	Eligible
L006	9912045677V	T.D.B.M Abewardhana	35	07180098989	abewardhana78@gmail.com	34000	Eligible
loo9	9943667782	w.s.m.weerasekara	34	07646683882	samithadilshan59@gmail.com	56000	Eligible

[download pdf](#)

Figure 103Elisigble list

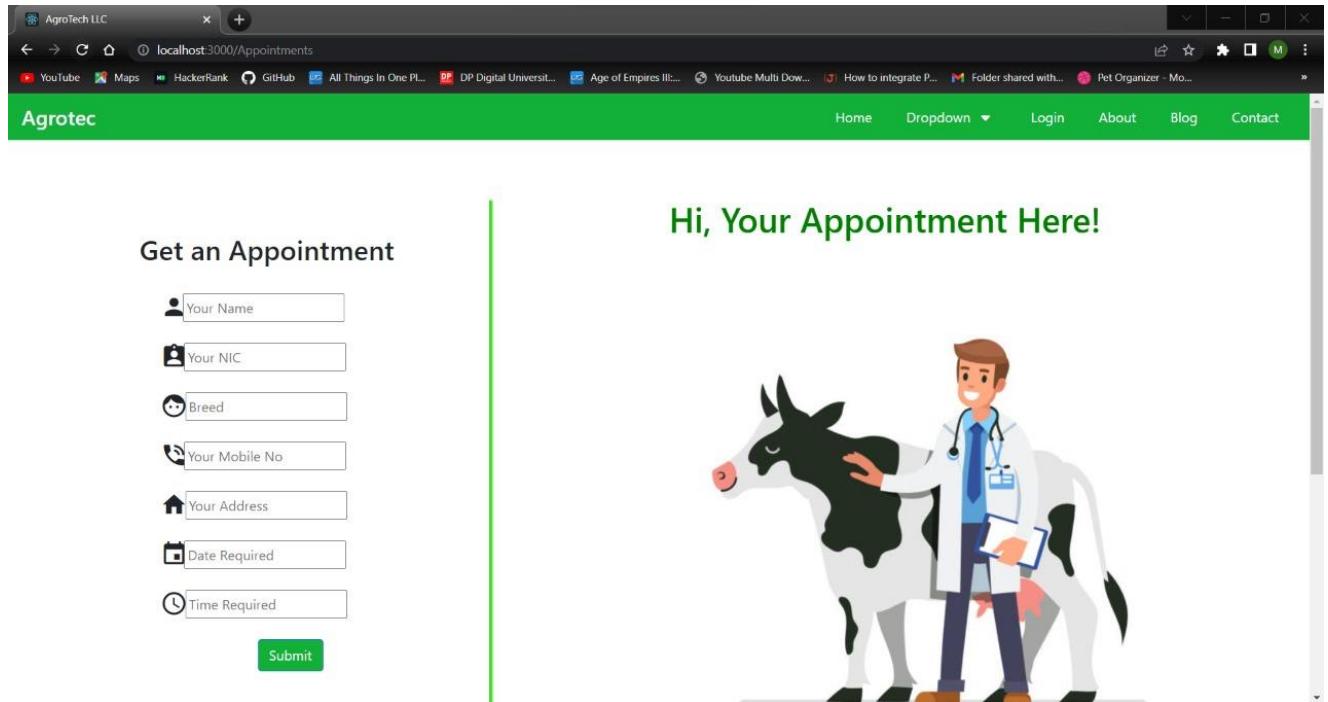


Figure 104 Health care appointments

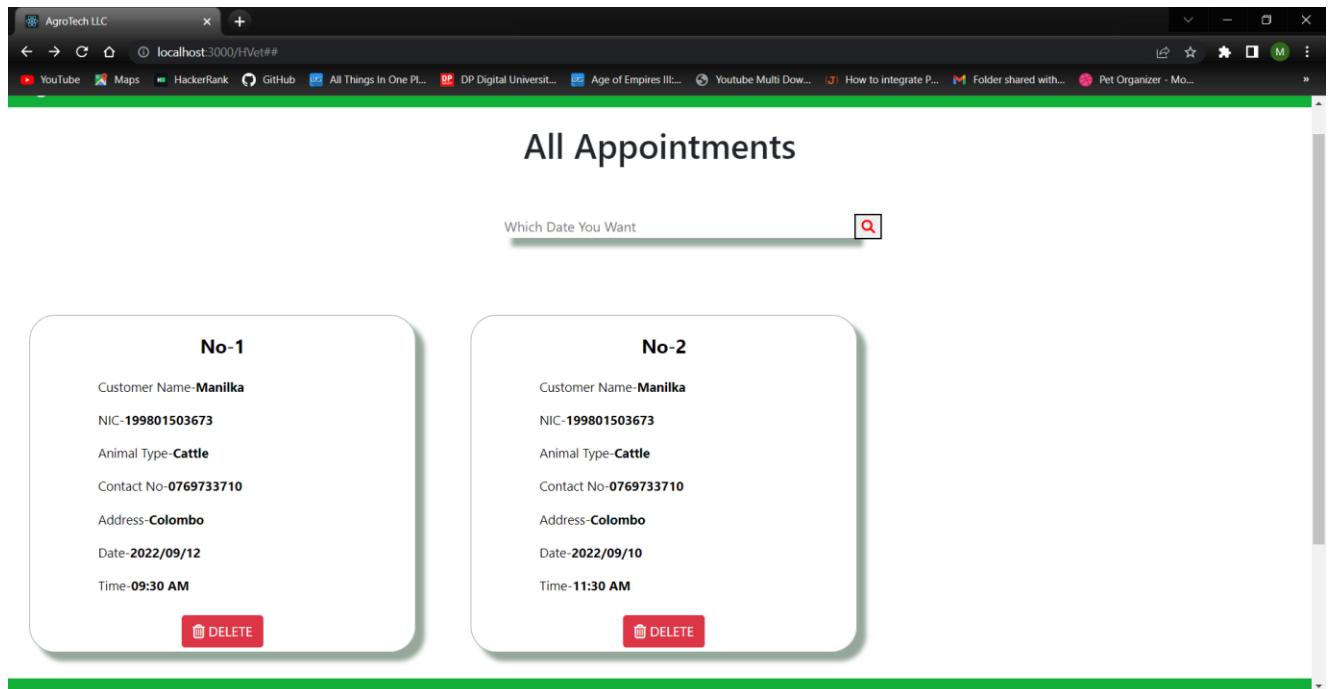


Figure 105 All appointments customer view

The screenshot shows a web browser window for 'AgroTech LLC' at 'localhost:3000/HManager'. The title bar says 'AgroTech LLC' and the address bar says 'localhost:3000/HManager'. The page has a green header with the 'Agrotec' logo and navigation links: Home, Dropdown, Login, About, Blog, Contact. Below the header is a search bar with a magnifying glass icon. The main content area is titled 'Appointments' and contains a table with two rows of appointment data. Each row includes columns for No, Customer Name, NIC, Animal Type, Contact No, Address, Date, Time, and Action (with 'EDIT' and 'DELETE' buttons). A green 'Report' button is located below the table. The footer is dark green with three sections: 'NAVIGATION' (Home, Services, Event & Contact Support, Contact), 'NAVIGATION' (Home, Services, Event & Contact Support, Contact), and 'ABOUT' (a welcome message about AgroTech LLC).

No	Customer Name	NIC	Animal Type	Contact No	Address	Date	Time	Action
1	Manilka	199801503673	Cattle	0769733710	Colombo	2022/09/12	09:30 AM	<button>EDIT</button> <button>DELETE</button>
2	Manilka	199801503673	Cattle	0769733710	Colombo	2022/09/10	11:30 AM	<button>EDIT</button> <button>DELETE</button>

Figure 106Health care admin dashboard

The screenshot shows a modal dialog box centered on the screen. It features a large orange exclamation mark icon at the top. Below it is the title 'Delete Appointment' and the question 'Do you want to delete?'. At the bottom right of the dialog is a red 'Ok' button. The background of the main page is dimmed. The rest of the page structure is identical to Figure 106, including the header, search bar, table, and footer.

Figure 107Admin ui prompts delete

Update An Appointment

Name	Manilka
NIC	199801503673
Breed	Cattle
Contact	0769733712
Address	Colombo
Date	2022/09/10
Time	11:30 AM

Update

Figure 108Health care update appointments

All Appointment Details

Name	NIC	Animal Type	Contact	Address	Date	Time
Manilka	199801503673	Cattle	0769733710	Colombo	2022/09/12	09:30 AM
Manilka	199801503673	Cattle	0769733710	Colombo	2022/09/10	11:30 AM

NAVIGATION

- [Home](#)
- [Services](#)
- [Event & Contact Support](#)
- [Contact](#)
- [Help](#)

NAVIGATION

- [Home](#)
- [Services](#)
- [Event & Contact Support](#)
- [Contact](#)
- [Help](#)

ABOUT

Welcome to AgroTech LLC, your number one source for all things agricultural. We're dedicated to providing you the best of agricultural product, with a focus on dependability, customer service, and farmer support. We're working to turn our passion for agricultural products into a booming online store. We hope you enjoy our products as much as we enjoy offering them to you.

Figure 109Health care reports



Request wholesale Product

Company ID
Company Contact No
Company Email
Contact No
Choose ProductID...
Choose Product...
Quantity

Calculator Conditions Submit

Figure 110Product request ui

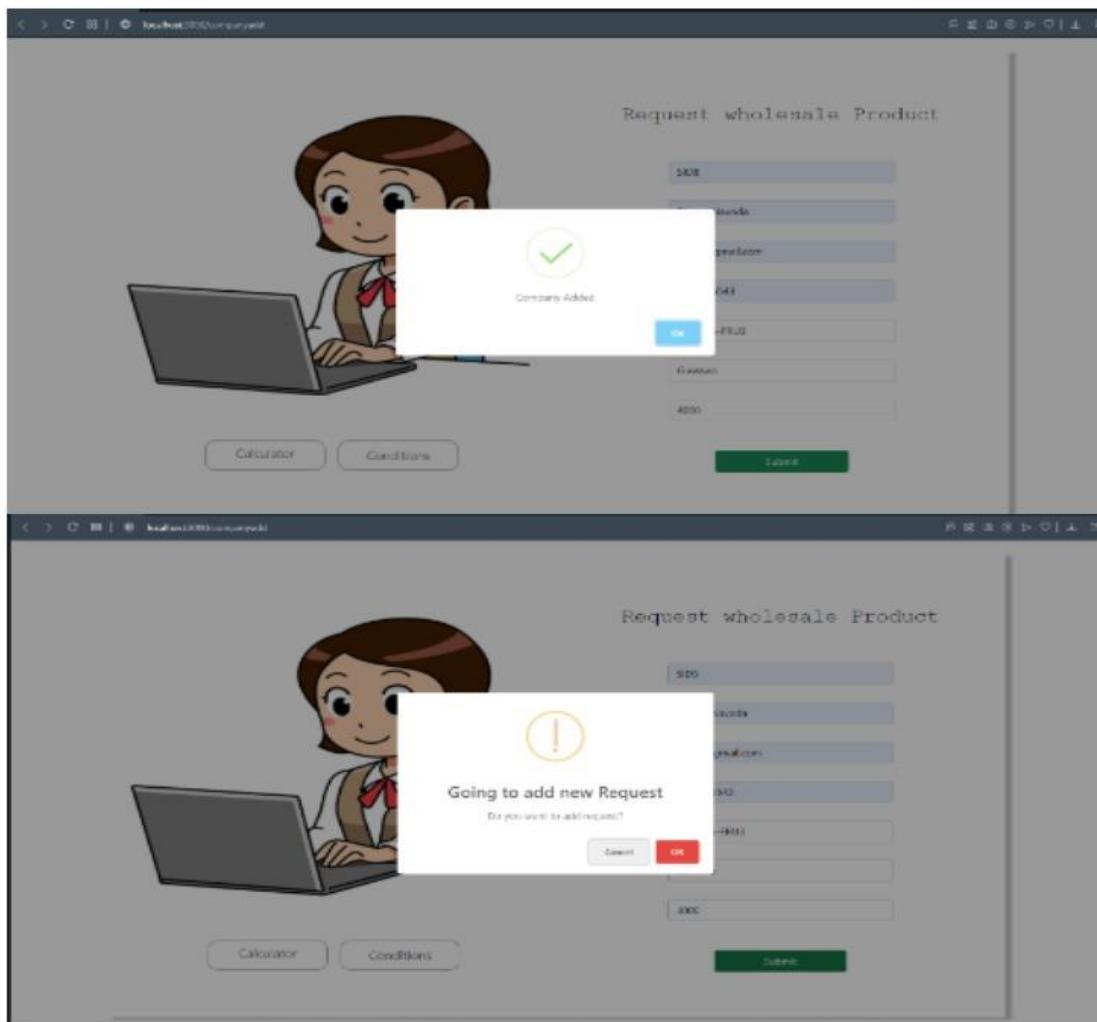


Figure 111Product ui alerts

All Company Requests

Request No -1

Company Id-**sid1**

Product Name- **Pumpkin**

Product ID- **pid4**

Contact No-**0125478945**

Quantity-**5000**

Confirm

DELETE

Request No -2

Company Id-**bgb**

Product Name- **Banana**

Product ID- **trht**

Contact No-**hy5yn**

Quantity-**50000**

Confirm

DELETE

NAVIGATION

[Home](#)
[Services](#)
[Event & Contact Support](#)
[Contact](#)
[Help](#)

NAVIGATION

[Home](#)
[Services](#)
[Event & Contact Support](#)
[Contact](#)
[Help](#)

ABOUT

Welcome to AgroTech LLC, your number one source for all things agricultural. We're dedicated to providing you the best of agricultural product, with a focus on dependability, customer service, and farmer support. We're working to turn our passion for agricultural products into a booming online store. We hope you enjoy our products as much as we enjoy offering them to you.

Agrotec

Home All Services ▾ Login About Blog Contact

Add Supplier wholesale Product Details



Figure 112Supplier ui 1

localhost:3000/productadd

Agrotec

Home All Services ▾ Login About Blog Contact

Add Supplier wholesale Product Details



✓
 Product Added

Figure 113Supplier ui 2

The screenshot shows a web application interface for managing product stock. At the top, there is a green header bar with the logo 'Agrotec' on the left and navigation links for 'Home', 'All Services ▾', 'Login', 'About', 'Blog', and 'Contact' on the right. Below the header is a search bar with a placeholder 'Search..'. The main content area is titled 'Stock Details' and contains a table with five columns: 'Product No', 'Product ID', 'Product Name', 'Quantity(Kg)', and 'Action'. The table has four rows of data:

Product No	Product ID	Product Name	Quantity(Kg)	Action
1	VEG003	POTATO	8000	EDIT DELETE
2	FRU001	MANGO	4000	EDIT DELETE
3	FRU002	BANANA	4000	EDIT DELETE
4	VEG002	TOMATO	8000	EDIT DELETE

Figure 114 Stock details ui

The screenshot shows a web application interface for updating product details. At the top, there is a browser address bar with the URL 'localhost:3000/productUpdate/626536d8a3ce90ef7ce77778/POTATO/8000'. Below the address bar is a green header bar with the logo 'Agrotec' on the left and navigation links for 'Home', 'All Services ▾', 'Login', 'About', 'Blog', and 'Contact' on the right. The main content area is titled 'UPDATE PRODUCTS' and contains a form with three input fields: 'Product ID' (626536d8a3ce90ef7ce77778), 'Product Name' (POTATO), and 'Quantity' (8000). A 'Submit' button is located at the bottom of the form.

Figure 115 Update products ui



All Salary Details				
Supplier Id	Contact Number	Product ID	Product Name	Quantity
SID003	07145896157	VEG003	POTATO	7000
SID005	07145890457	FRU001	MANGO	4000
SID005	07245890457	FRU002	BANANA	4000
SID001	07255890457	VEG002	TOMATO	8000
SID002	07254789344	FR001	BANANA	5000
SID002	0725478934	FRU003	PINEAPPLE	7000

Figure 116 Report admin ui

Fruits	Vegetables	Seeds
We can Supply fresh fruits for you	We can Supply fresh fruits for you	We can Supply fresh fruits for you
FRU01-Mango FRU02-Banana FRU03-Guawa FRU04-Orange FRU05-Pineapple	VEG01-Pumpkin VEG02-Potato VEG03-Carrot VEG04-Tomato VEG05-Eggplant	SEED01-Corn Seed SEED02-Cocoa Beans SEED03-Coffee Seed SEED04-Soy Seed SEED05-Pumpkin Seed

Figure 117 Report product summary popup

Wholesale Product Price Calculator

Enter Product ID
FRU1

Product Size
400

Submit

Reload

Your Total Amount is Rs: 40000.0

Request Your Mango



Request Product

Figure 118Price calculator ui

Agrotec

Home All Services ▾ Login About Blog Contact

Search.. Q

Stock Details

Product No	Product ID	Quantity(Kg)	Action	
1	VEG003	8000	EDIT DELETE	
2	FRU001	4000	EDIT DELETE	
3	FRU002	BANANA	4000	EDIT DELETE
4	VEG002	TOMATO	8000	EDIT DELETE

Updated Successfully OK

Figure 119Stock details alert

Conclusion

The group of people who were responsible for developing the Agro-Tec web-based system took a thorough approach while trying to figure out how the system functioned as a whole.

Collecting requirements through having frequent encounters with customers and talking on a regular basis about farm products, forthcoming events, healthcare, and the helpful comments customers provide.

Building the system with the most recent version of the MERN stack technology ensures that it will be simple to manage and that it will remain current with the most recent developments and trends.

In addition, if there are new things, the system is able to easily update them on a day-to-day basis while maintaining the appropriate validations.

If a problem arises when using the system, finding and fixing it is not difficult because each function can be tested separately without having any effect on the operation of the system as a whole. As a consequence of this, other departments are able to carry on with their regular operations even while the repair is being carried out.

Users will have an easy time navigating their way through this system due to the user interfaces that have been designed to be as user-friendly as possible. Users will be directed in the right direction by the interfaces that are available to them.

The administrators of each department are likely to have an easy time managing both the people and the papers in an effective manner.

When the administration staff is gathering information about the proposed system, they are continually connecting with one another for brief communications. However, if a particular administrator is not linked to the system, the message will not be received in a timely manner. Because of this, establishing a notification rendering system could potentially increase communication across departments. The system is only semi-automated, meaning that certain manual methods will continue to be used to manage the system whenever they are required.

Thank You!

