

**Testing Document
for
Vegetable Seed Management System (VSMS)**

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4 April 2022

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1. INTRODUCTION

This section of the testing documents gives details about the purpose of this document.

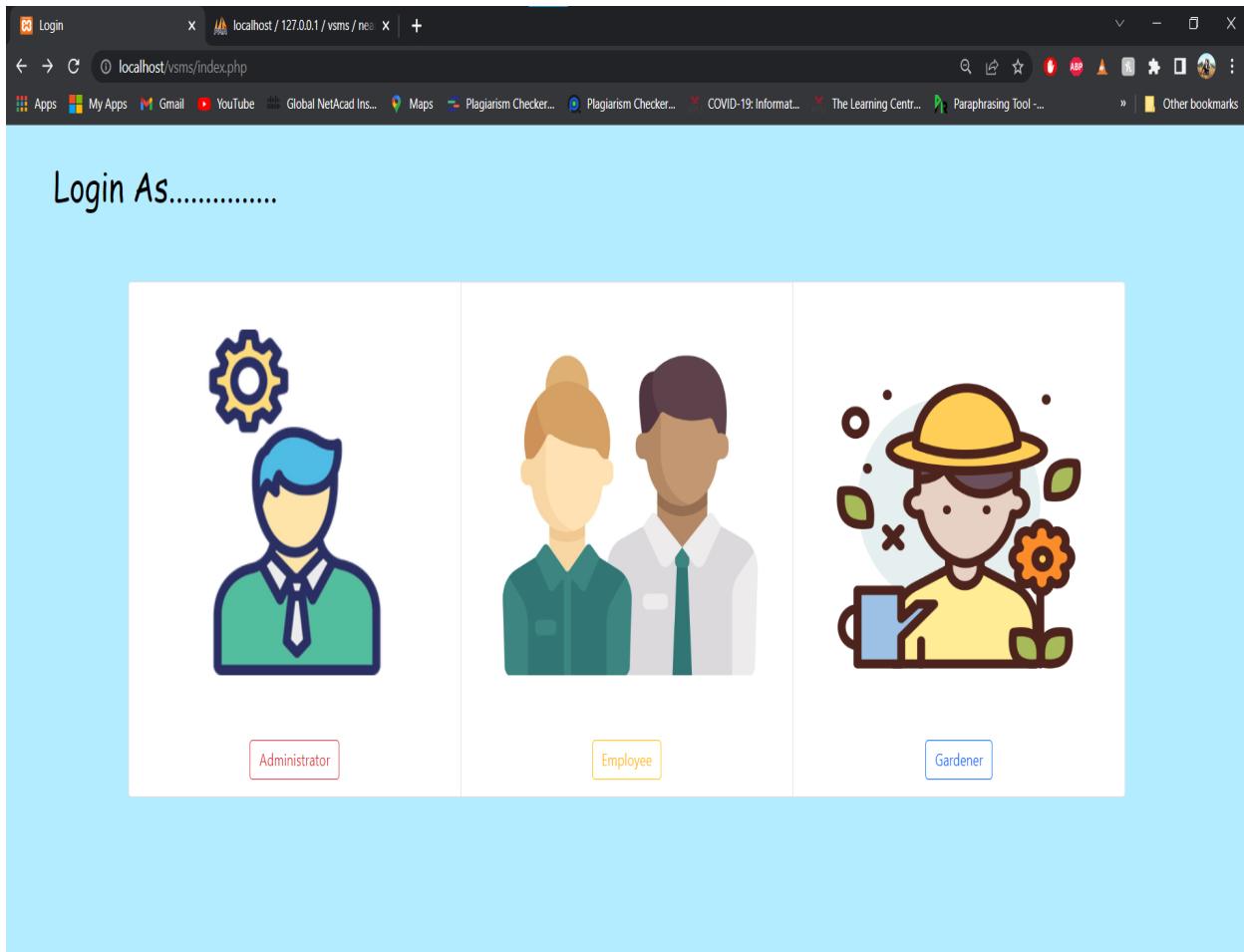
1.1 PURPOSE

The purpose of this document is to test the functional and non-functional requirements of the “Vegetable Seed Management System” (VSMS) web application which were mentioned in the SRS. It will give details about date of test, who the tester was, if the test pass or fail, and the screenshots of the testing. This document is intended for the professor Wu, Jendy.

2.0 TEST RESULTS

This section of document will talk in detail about test details such as test date, the tester, whether it passed or failed, and will include screenshots of the testing.

Main Page:



2.1 Functional Requirements Testing:

Following are the functional requirements of “Vegetable Seed Management System” (VSMS):

2.1.1. User Needs to Login:

This is used to enter the website. Only the registered users can enter system and therefore every user whether it is a gardener, employee, or administrator, they need to login to enter the system. The login pages for admin, employee and gardener look as follow:

Admin Login  admin Login Go Back	Employee Login  emp1 Login Go Back
---	---

Gardener Login  gard1 Login Go Back
--

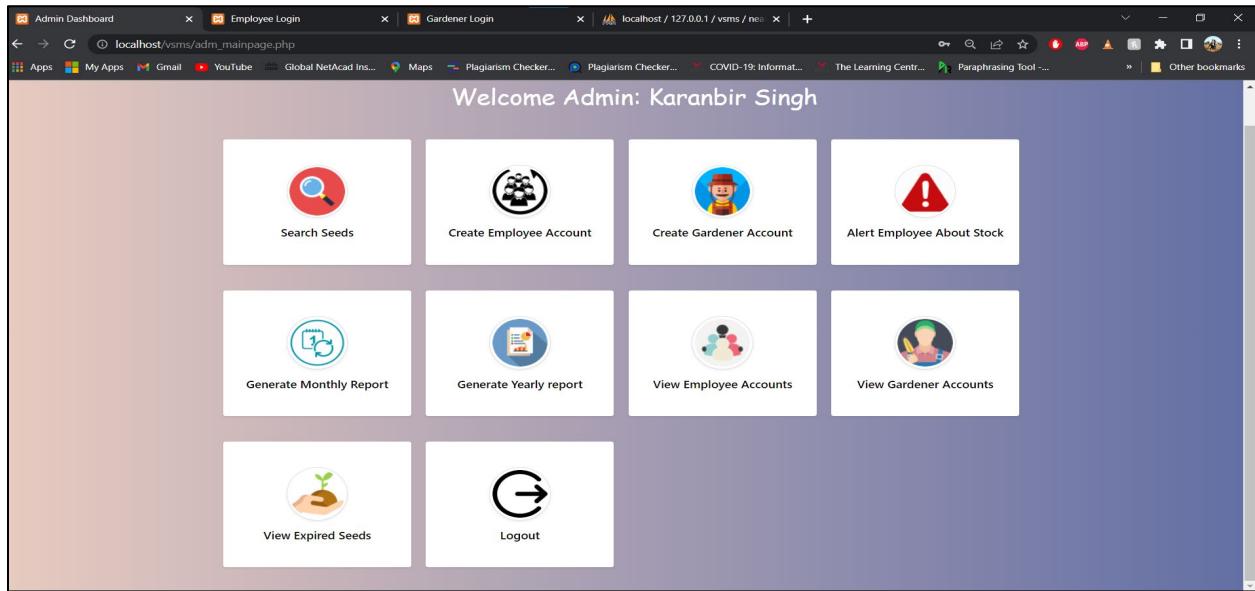
Test Case 1- Check results on entering valid User Id & Password for Admin

Date Tested – 16 March 2022

Tester – Karanbir Singh

If the test pass or fail – Pass

Screenshot of testing -



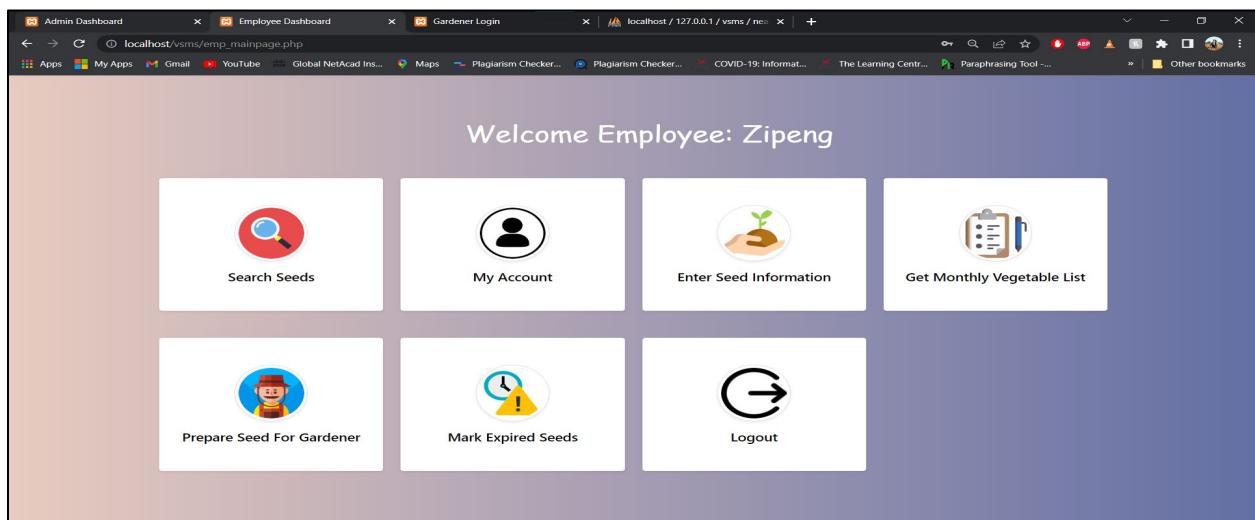
Test Case 2- Check results on entering valid User Id & Password for Employee

Date Tested – 16 March 2022

Tester – Karanbir Singh

If the test pass or fail – Pass

Screenshot of testing -



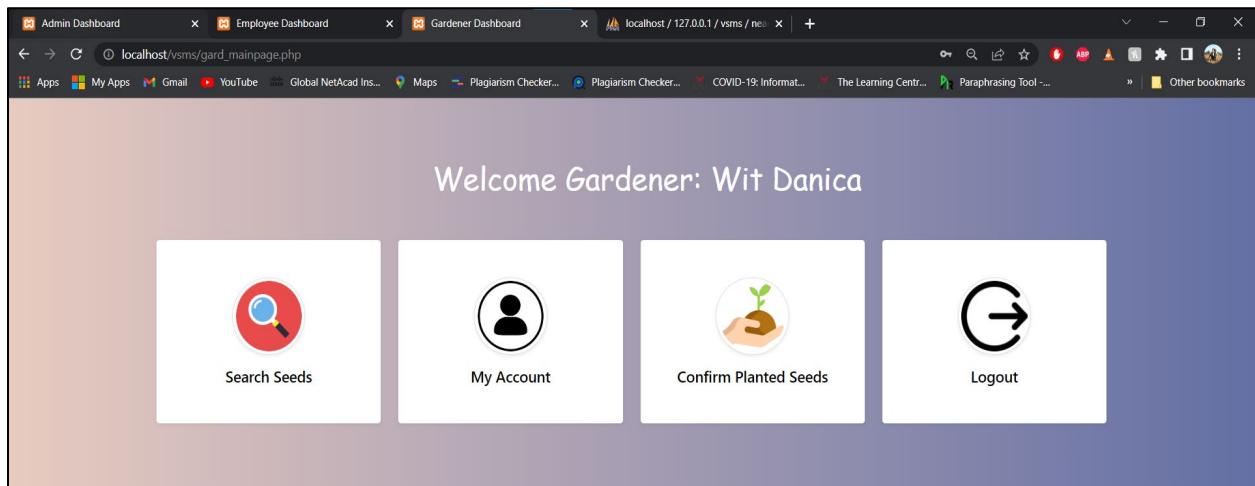
Test Case 3- Check results on entering valid User Id & Password for Gardener

Date Tested – 16 March 2022

Tester – Karanbir Singh

If the test pass or fail – Pass

Screenshot of testing –



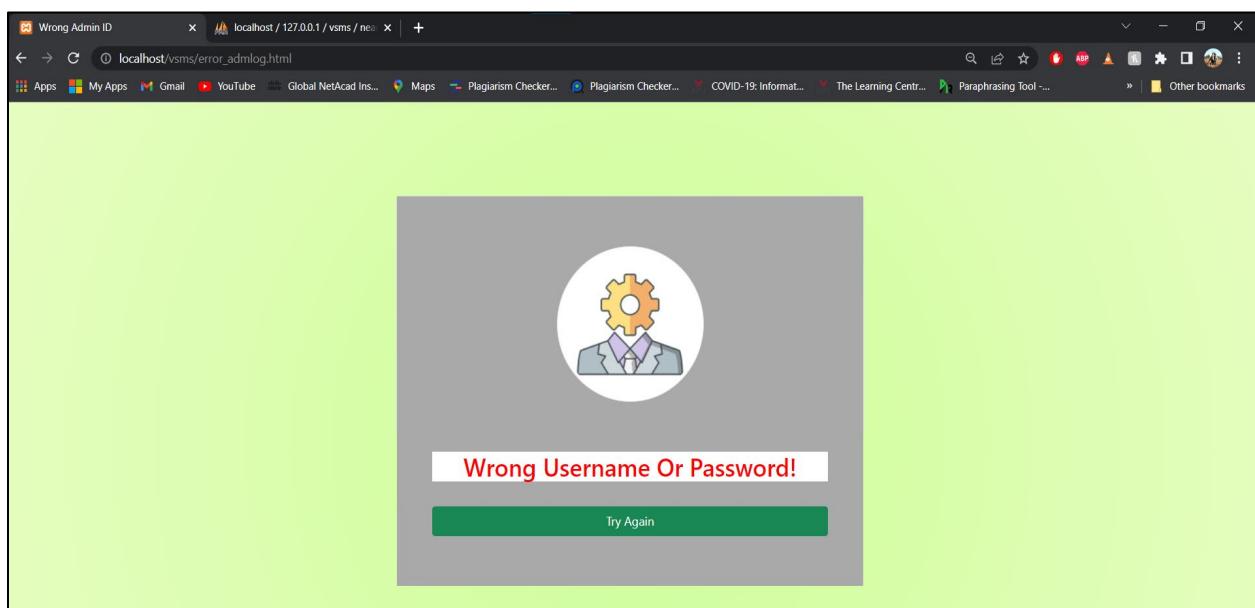
Test Case 4- Check results on entering invalid User Id & Password for any user

Date Tested – 16 March 2022

Tester – Karanbir Singh

If the test pass or fail – Pass

Screenshot of testing –



2.1.2. Administrator Creates Gardeners and Employees Account:

It is administrator duty to create accounts for both gardeners and employees. While creating account for gardener and employee, administrator need to input basic information regarding the users and need to set password for those accounts.

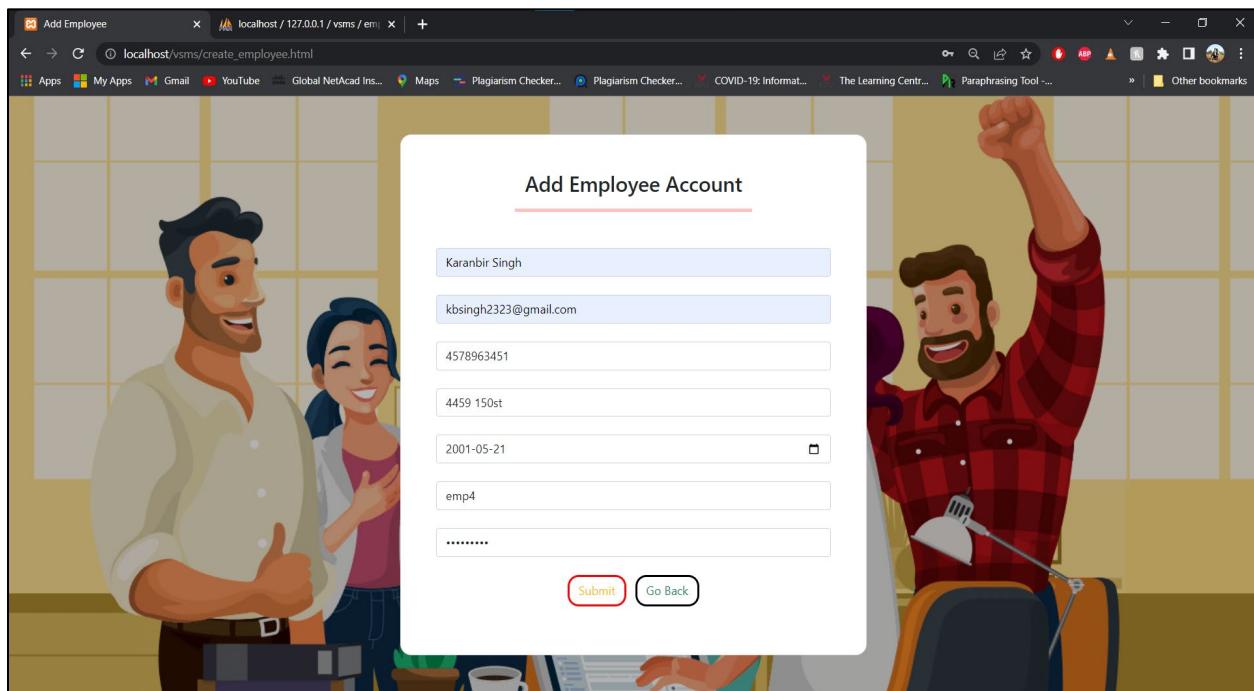
Test Case 1- Creating new Employee Account [Click submit after entering information]

Date Tested – 16 March 2022

Tester – Karanbir Singh

If the test pass or fail – Pass

Screenshots of the testing – (a)Information Entered



(b) After clicking submit [Database View] – New employee account with username emp4 is created

Table: employee																																																																						
Server: 127.0.0.1 » Database: vsms » Table: employee																																																																						
Browse Structure SQL Search Insert Export Import Privileges Operations Tracking																																																																						
<div style="background-color: #90EE90; padding: 5px;">✓ Showing rows 0 - 3 (4 total, Query took 0.0013 seconds.)</div>																																																																						
<pre>SELECT * FROM `employee`</pre>																																																																						
<input type="checkbox"/> Profiling Edit inline Edit Explain SQL Create PHP code Refresh																																																																						
<input type="checkbox"/> Show all		Number of rows:	25	Filter rows:	Search this table		Sort by key:	None																																																														
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<table border="1"><thead><tr><th></th><th>Edit</th><th>Copy</th><th>Delete</th><th>id</th><th>fullname</th><th>email</th><th>pnumber</th><th>address</th><th>dob</th><th>username</th><th>password</th></tr></thead><tbody><tr><td><input type="checkbox"/></td><td>Edit</td><td>Copy</td><td>Delete</td><td>1</td><td>Zipeng</td><td>karanbir.singh6@email.kpu.ca</td><td>2354788850</td><td>7865 54 st</td><td>2001-03-01</td><td>emp1</td><td>emp1@vsms</td></tr><tr><td><input type="checkbox"/></td><td>Edit</td><td>Copy</td><td>Delete</td><td>3</td><td>Raaman Sndhu</td><td>kbsingh2323@gmail.com</td><td>458794280</td><td>8931 Street 85</td><td>1998-05-19</td><td>emp2</td><td>emp2@vsms</td></tr><tr><td><input type="checkbox"/></td><td>Edit</td><td>Copy</td><td>Delete</td><td>5</td><td>Manveer Kaur</td><td>kbsingh2323@gmail.com</td><td>7856231247</td><td>82326 45ave</td><td>1999-02-06</td><td>emp3</td><td>emp3@vsms</td></tr><tr><td><input type="checkbox"/></td><td>Edit</td><td>Copy</td><td>Delete</td><td>8</td><td>Karanbir Singh</td><td>kbsingh2323@gmail.com</td><td>4578963451</td><td>4459 150st</td><td>2001-05-21</td><td>emp4</td><td>emp4@vsms</td></tr></tbody></table>												Edit	Copy	Delete	id	fullname	email	pnumber	address	dob	username	password	<input type="checkbox"/>	Edit	Copy	Delete	1	Zipeng	karanbir.singh6@email.kpu.ca	2354788850	7865 54 st	2001-03-01	emp1	emp1@vsms	<input type="checkbox"/>	Edit	Copy	Delete	3	Raaman Sndhu	kbsingh2323@gmail.com	458794280	8931 Street 85	1998-05-19	emp2	emp2@vsms	<input type="checkbox"/>	Edit	Copy	Delete	5	Manveer Kaur	kbsingh2323@gmail.com	7856231247	82326 45ave	1999-02-06	emp3	emp3@vsms	<input type="checkbox"/>	Edit	Copy	Delete	8	Karanbir Singh	kbsingh2323@gmail.com	4578963451	4459 150st	2001-05-21	emp4	emp4@vsms
	Edit	Copy	Delete	id	fullname	email	pnumber	address	dob	username	password																																																											
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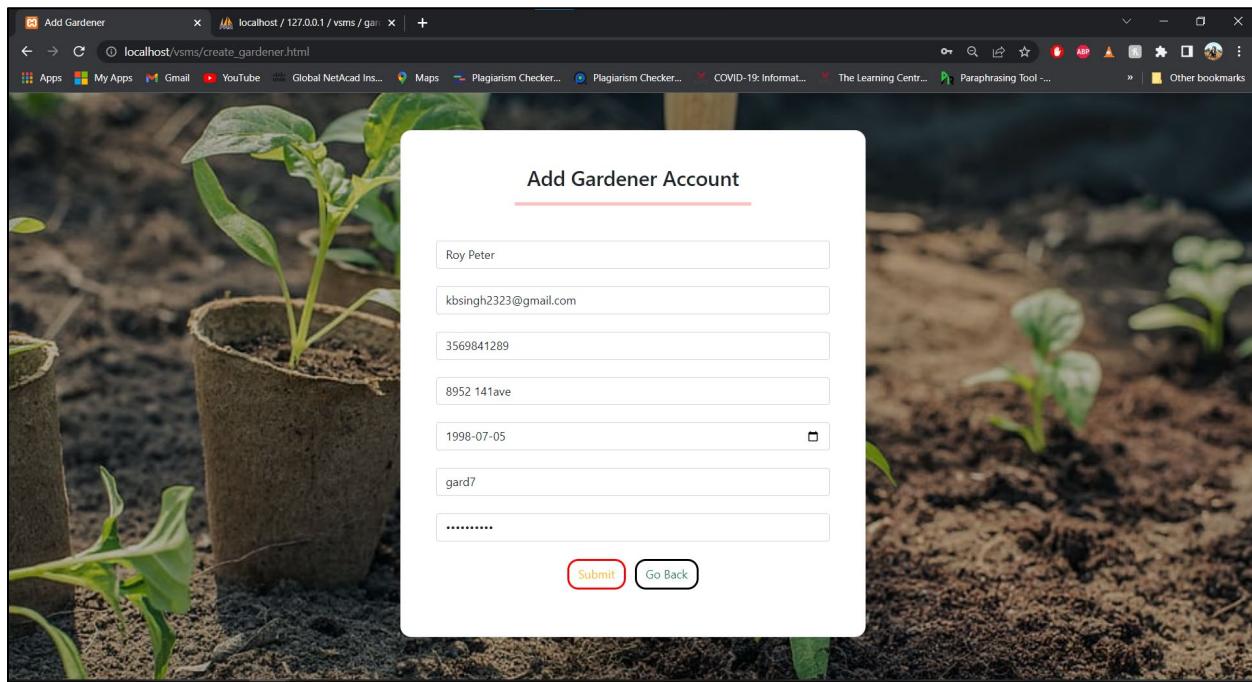
Test Case 2- Creating new Gardener Account [Click submit after entering information]

Date Tested – 16 March 2022

Tester – Karanbir Singh

If the test pass or fail – Pass

Screenshots of the testing – (a)Information Entered



(b) After clicking submit [Database View] – New gardener account with username gard7 is created

	Edit	Copy	Delete	id	fullname	email	pnumber	address	dob	username	password
<input type="checkbox"/>				1	Wit Danica	kbsingh2323@gmail.com	7089456441	123 147a St, Delta	2002-03-30	gard1	gard1@vsms
<input type="checkbox"/>				2	Mathew James	kbsingh2323@gmail.com	6045718945	12117 150a st	2001-02-20	gard2	gard2@vsms
<input type="checkbox"/>				5	Jon Denis	kbsingh2323@gmail.com	9556471005	7828 119st	1996-09-01	gard3	gard3@vsms
<input type="checkbox"/>				6	Clare Davin	kbsingh2323@gmail.com	2368789015	7452 126A st	1998-01-05	gard4	gard4@vsms
<input type="checkbox"/>				7	Roger Poppy	kbsingh2323@gmail.com	6048688115	8292 78ave	1994-06-14	gard5	gard5@vsms
<input type="checkbox"/>				8	Lois Joy	kbsingh2323@gmail.com	7758128110	92262 112st	1995-07-01	gard6	gard6@vsms
<input type="checkbox"/>				9	Roy Peter	kbsingh2323@gmail.com	3569841289	8952 141ave	1998-07-05	gard7	gard7@vsms

2.1.3. Users Edit Their Personal Account Information:

Users can update their personal information whenever they want.

Test Case 1- Employee changes his full name, phone number, address, and password.

Date Tested – 16 March 2022

Tester – Karanbir Singh

If the test pass or fail – Pass

Screenshot of testing – (a) emp1 info before editing personal information.

SELECT * FROM `employee`									
<input type="checkbox"/> Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]									
<input type="checkbox"/> Show all Number of rows: 25 ▾ Filter rows: Search this table Sort by key: None ▾									
+ Options									
	← T →	id	fullname	email	pnumber	address	dob	username	password
	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	1 Zipeng	karanbir.singh6@email.kpu.ca	2354788850	7865 54 st	2001-03-01	emp1
									emp1@vsms

(b) emp1 info after he changes his personal information and click on Update Button.

The screenshot shows a 'My Account' form with the following fields and values:

- Fullscreen:** Griffin Rock
- Email:** karanbir.singh6@email.kpu.ca
- Phone Number:** 1457888129
- Address:** 1245 8 ave
- Date of Birth:** 2001-03-01
- Username:** emp1
- Password:** rock@pass1

At the bottom right are two buttons: a red-bordered **Update** button and a green-bordered **Go Back** button.

SELECT * FROM `employee`									
<input type="checkbox"/> Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]									
<input type="checkbox"/> Show all Number of rows: 25 ▾ Filter rows: Search this table Sort by key: None ▾									
+ Options									
	← T →	id	fullname	email	pnumber	address	dob	username	password
	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	1 Griffin Rock	karanbir.singh6@email.kpu.ca	1457888129	1245 8 ave	2001-03-01	emp1
									rock@pass1

2.1.4. Administrator Can Modify User Accounts:

Administrator has full power to modify and delete any user account.

Test Case 1- Administrator changes full name and password of employee having username emp1.

Date Tested – 16 March 2022

Tester – Karanbir Singh

If the test pass or fail – Pass

Screenshot of testing – (a) emp1 info before administrator modifies it.

ID	Fullname	Email	Phone Number	Address	Date Of Birth	Username	Password	Change Data*
1	Griffin Rock	karanbir.singh6@email.kpu.ca	1457888129	1245 8 ave	2001-03-01	emp1	rock@pass1	<button>Update</button> <button>Delete</button>
3	Raaman Sndhu	kbsingh2323@gmail.com	458794280	8931 Street 85	1998-05-19	emp2	emp2@vsms	<button>Update</button> <button>Delete</button>
5	Manveer Kaur	kbsingh2323@gmail.com	7856231247	82326 45ave	1999-02-06	emp3	emp3@vsms	<button>Update</button> <button>Delete</button>
8	Karanbir Singh	kbsingh2323@gmail.com	4578963451	4459 150st	2001-05-21	emp4	emp4@vsms	<button>Update</button> <button>Delete</button>

[Go Back](#)

(a) emp1 info after administrator changes full name to Zipeng Wang and password to emp1@vsms

ID	Fullname	Email	Phone Number	Address	Date Of Birth	Username	Password	Change Data*
1	Zipeng Wang	karanbir.singh6@email.kpu.ca	1457888129	1245 8 ave	2001-03-01	emp1	emp1@vsms	<button>Update</button> <button>Delete</button>
3	Raaman Sndhu	kbsingh2323@gmail.com	458794280	8931 Street 85	1998-05-19	emp2	emp2@vsms	<button>Update</button> <button>Delete</button>
5	Manveer Kaur	kbsingh2323@gmail.com	7856231247	82326 45ave	1999-02-06	emp3	emp3@vsms	<button>Update</button> <button>Delete</button>
8	Karanbir Singh	kbsingh2323@gmail.com	4578963451	4459 150st	2001-05-21	emp4	emp4@vsms	<button>Update</button> <button>Delete</button>

[Go Back](#)

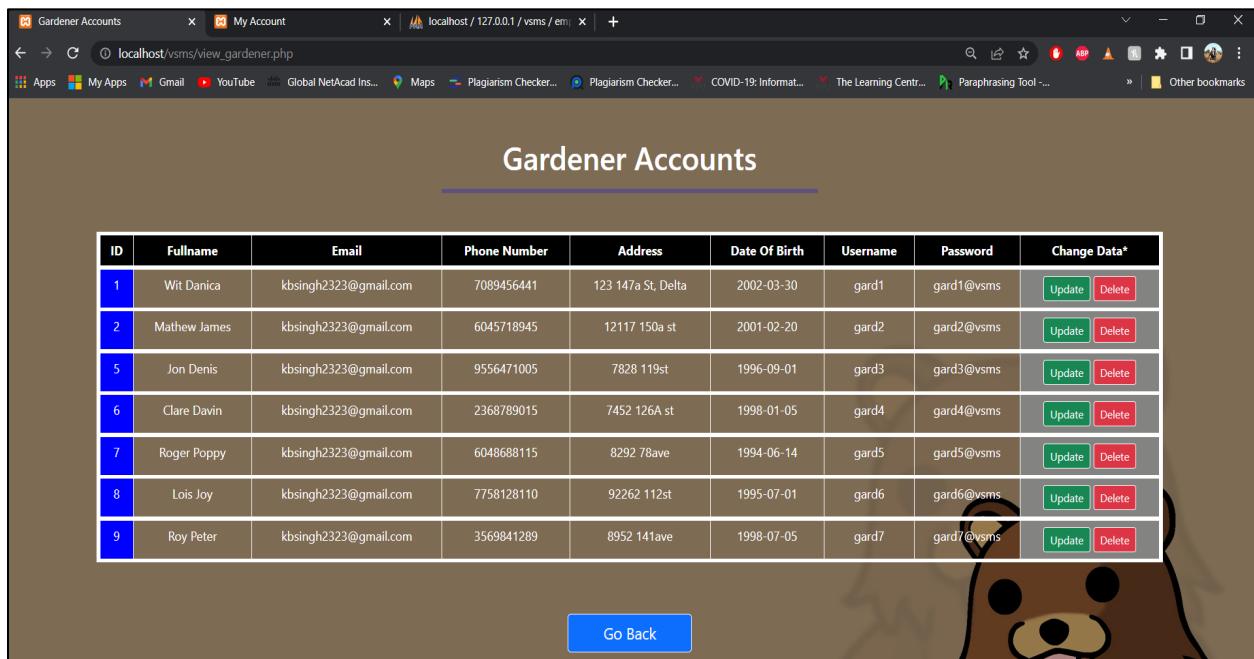
Test Case 2- Administrator deletes gardener account having username gard7.

Date Tested – 16 March 2022

Tester – Karanbir Singh

If the test pass or fail – Pass

Screenshot of testing – (a) Gardener account with username gard7 exist before administrator delete it.

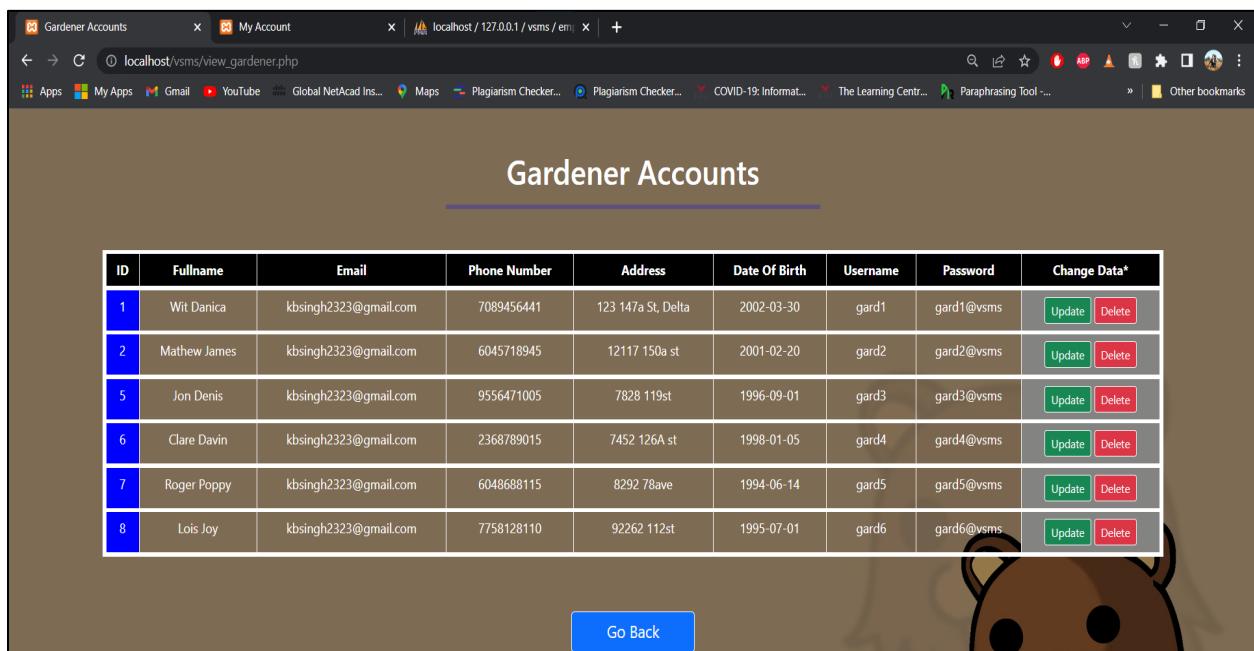


The screenshot shows a web browser window titled "Gardener Accounts". The URL in the address bar is `localhost/vsms/view_gardener.php`. The page displays a table of "Gardener Accounts" with the following data:

ID	Fullname	Email	Phone Number	Address	Date Of Birth	Username	Password	Change Data*
1	Wit Danica	kbsingh2323@gmail.com	7089456441	123 147a St, Delta	2002-03-30	gard1	gard1@vsms	<button>Update</button> <button>Delete</button>
2	Mathew James	kbsingh2323@gmail.com	6045718945	12117 150a st	2001-02-20	gard2	gard2@vsms	<button>Update</button> <button>Delete</button>
5	Jon Denis	kbsingh2323@gmail.com	9556471005	7828 119st	1996-09-01	gard3	gard3@vsms	<button>Update</button> <button>Delete</button>
6	Clare Davin	kbsingh2323@gmail.com	2368789015	7452 126A st	1998-01-05	gard4	gard4@vsms	<button>Update</button> <button>Delete</button>
7	Roger Poppy	kbsingh2323@gmail.com	6048688115	8292 78ave	1994-06-14	gard5	gard5@vsms	<button>Update</button> <button>Delete</button>
8	Lois Joy	kbsingh2323@gmail.com	7758128110	92262 112st	1995-07-01	gard6	gard6@vsms	<button>Update</button> <button>Delete</button>
9	Roy Peter	kbsingh2323@gmail.com	3569841289	8952 141ave	1998-07-05	gard7	gard7@vsms	<button>Update</button> <button>Delete</button>

A blue "Go Back" button is located at the bottom left of the page.

(b) After administrator deletes the account with gard7 username



The screenshot shows the same "Gardener Accounts" page after the account with ID 9 and Username "gard7" has been deleted. The table now contains only 8 rows of data:

ID	Fullname	Email	Phone Number	Address	Date Of Birth	Username	Password	Change Data*
1	Wit Danica	kbsingh2323@gmail.com	7089456441	123 147a St, Delta	2002-03-30	gard1	gard1@vsms	<button>Update</button> <button>Delete</button>
2	Mathew James	kbsingh2323@gmail.com	6045718945	12117 150a st	2001-02-20	gard2	gard2@vsms	<button>Update</button> <button>Delete</button>
5	Jon Denis	kbsingh2323@gmail.com	9556471005	7828 119st	1996-09-01	gard3	gard3@vsms	<button>Update</button> <button>Delete</button>
6	Clare Davin	kbsingh2323@gmail.com	2368789015	7452 126A st	1998-01-05	gard4	gard4@vsms	<button>Update</button> <button>Delete</button>
7	Roger Poppy	kbsingh2323@gmail.com	6048688115	8292 78ave	1994-06-14	gard5	gard5@vsms	<button>Update</button> <button>Delete</button>
8	Lois Joy	kbsingh2323@gmail.com	7758128110	92262 112st	1995-07-01	gard6	gard6@vsms	<button>Update</button> <button>Delete</button>

A blue "Go Back" button is located at the bottom left of the page.

2.1.5. Employees Enter Seed Information:

Every new vegetable seed purchased or harvested is entered into system by employee.

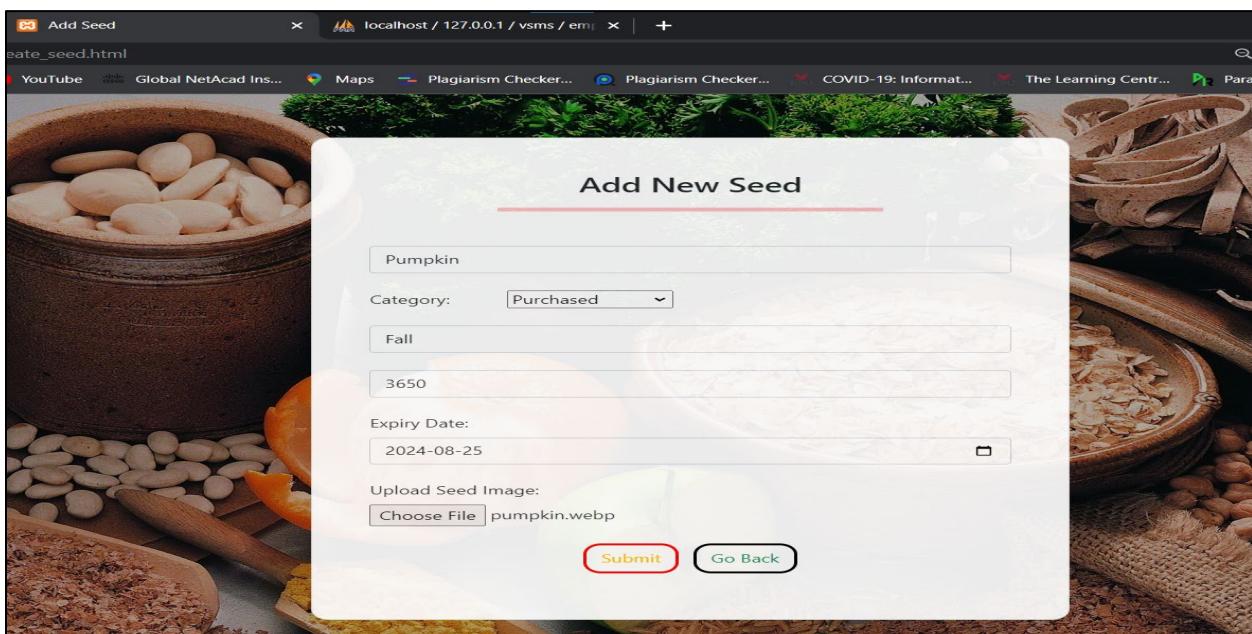
Test Case 1- Employee enter information about new seed named Pumpkin.

Date Tested – 16 March 2022

Tester – Karanbir Singh

If the test pass or fail – Pass

Screenshot of testing –



After clicking Submit, Pumpkin seed gets added to inventory [id: 34]

SELECT * FROM `seed`								
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]								
<input type="checkbox"/> Show all	Number of rows:	25	Filter rows:	Search this table			Sort by key:	None
+ Options								
◀ T ▶	#	id	name	category	ptime	quantity	edate	simage
<input type="checkbox"/>	Edit	Copy	Delete	17 Peas	purchased	Spring	2440	2024-12-11 peas.jpg
<input type="checkbox"/>	Edit	Copy	Delete	18 Radish	harvested	Fall	317	2022-12-21 radish.jpg
<input type="checkbox"/>	Edit	Copy	Delete	20 Cabbage	purchased	Fall	400	2022-11-16 cabbage.jpg
<input type="checkbox"/>	Edit	Copy	Delete	21 Cauliflower	purchased	Fall	3014	2022-02-02 cauliflower.jpg
<input type="checkbox"/>	Edit	Copy	Delete	22 Lettuce	harvested	Spring	1254	2022-07-12 lettuce.jpg
<input type="checkbox"/>	Edit	Copy	Delete	24 Broccoli	purchased	Spring	2465	2024-10-22 broccoli.jpg
<input type="checkbox"/>	Edit	Copy	Delete	25 Corn	harvested	Summer	954	2020-11-12 corn.jpg
<input type="checkbox"/>	Edit	Copy	Delete	26 Cucumber	purchased	Summer	248	2024-02-21 cucumber.jpg
<input type="checkbox"/>	Edit	Copy	Delete	27 Tomatoes	harvested	Summer	1980	2023-09-26 tomatoes.png
<input type="checkbox"/>	Edit	Copy	Delete	28 Spinach	harvested	Fall	1381	2024-04-15 spinach.jif
<input type="checkbox"/>	Edit	Copy	Delete	29 Beans	purchased	Summer	165	2021-04-22 beans.jpg
<input type="checkbox"/>	Edit	Copy	Delete	30 Eggplant	harvested	Summer	789	2020-02-15 eggplant.png
<input type="checkbox"/>	Edit	Copy	Delete	31 Garlic	purchased	Fall	97	2019-12-30 garlic.jpg
<input type="checkbox"/>	Edit	Copy	Delete	32 Onion	harvested	Spring	1200	2021-05-25 onion.jpg
<input type="checkbox"/>	Edit	Copy	Delete	33 Potatoes	harvested	Fall	368	2020-05-27 potato.jpg
<input type="checkbox"/>	Edit	Copy	Delete	34 Pumpkin	purchased	Fall	3650	2024-08-25 pumpkin.webp

2.1.6. User Search Vegetable Seeds:

Users can search for the vegetable seeds using search bar.

Test Case 1- Searching newly added Pumpkin Seed.

Date Tested – 16 March 2022

Tester – Karanbir Singh

If the test pass or fail – Pass

Screenshot of testing –

NAME	CATEGORY	PLANTING TIME	QUANTITY(IN GRAM)	EXPIRY DATE	IMAGE
PUMPKIN	PURCHASED	FALL	3650	2024-08-25	

Test Case 2- Searching all the season whose planting time is Spring.

Date Tested – 16 March 2022

Tester – Karanbir Singh

If the test pass or fail – Pass

Screenshot of testing –

NAME	CATEGORY	PLANTING TIME	QUANTITY(IN GRAM)	EXPIRY DATE	IMAGE
PEAS	PURCHASED	SPRING	2440	2024-12-11	
LETTUCE	HARVESTED	SPRING	1254	2022-07-12	
BROCCOLI	PURCHASED	SPRING	2465	2024-10-22	
ONION	HARVESTED	SPRING	1200	2021-05-25	

2.1.7. System sends monthly vegetable list to employee email:

[Fixed this requirement according to Professor Jendy Wu feedback]

First day of each month, system automatically check what vegetable should be planted in this month and send the list of vegetable name to employees' email.

Test Case 1- When it is first day of April Month

Date Tested – 1 April 2022

Tester – Karanbir Singh

If the test pass or fail – Pass

Screenshot of testing – The system first checks the database for what vegetable was to be planted in April and then send the email to employee that Peas need to be planted.

SELECT * FROM `monthlylist`									
<input type="checkbox"/> Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]									
<input type="checkbox"/> Show all Number of rows: 25 ▾ Filter rows: Search this									
+ Options									
◀ T ▶	▼	id	month	seedname					
<input type="checkbox"/>		Edit		Copy		Delete	1	January	Cabbage
<input type="checkbox"/>		Edit		Copy		Delete	2	February	Cauliflower
<input type="checkbox"/>		Edit		Copy		Delete	3	March	Lettuce
<input type="checkbox"/>		Edit		Copy		Delete	4	April	Peas
<input type="checkbox"/>		Edit		Copy		Delete	5	May	Broccoli
<input type="checkbox"/>		Edit		Copy		Delete	6	June	Corn
<input type="checkbox"/>		Edit		Copy		Delete	7	July	Cucumber
<input type="checkbox"/>		Edit		Copy		Delete	8	August	Tomatoes
<input type="checkbox"/>		Edit		Copy		Delete	9	September	Spinach
<input type="checkbox"/>		Edit		Copy		Delete	10	October	Pumpkin
<input type="checkbox"/>		Edit		Copy		Delete	11	January	Mushroom
<input type="checkbox"/>		Edit		Copy		Delete	12	December	Raddish

The email sent by system tells month name: April and seed to be planted: Peas.

Gmail

Compose

Inbox

Starred

Snoozed

Sent

Drafts

More

Meet

New meeting

Join a meeting

Search mail

Monthly Vegetable List

kbsingh0008@gmail.com to me Fri, Apr 1, 11:34 PM (3 days ago)

Hi emp1,

This is April

So, Vegetable to be planted this month: Peas

Reply Forward

2.1.8. System Update Seed Inventory:

After getting monthly vegetable name list, Employee prepare seeds and send notification email to Gardener. Gardener goes to office, pick up seeds and plant them. Then, Gardener notifies employee that seeds have been planted by confirming it in his account.

Then, the Seed inventory gets updated. The number of seeds which gardener has planted are deducted from the original seed quantity.

Test Case 1- Employee will prepare Peas seed and send to gardener with username: Gard1.

Date Tested – 2 April 2022

Tester – Karanbir Singh

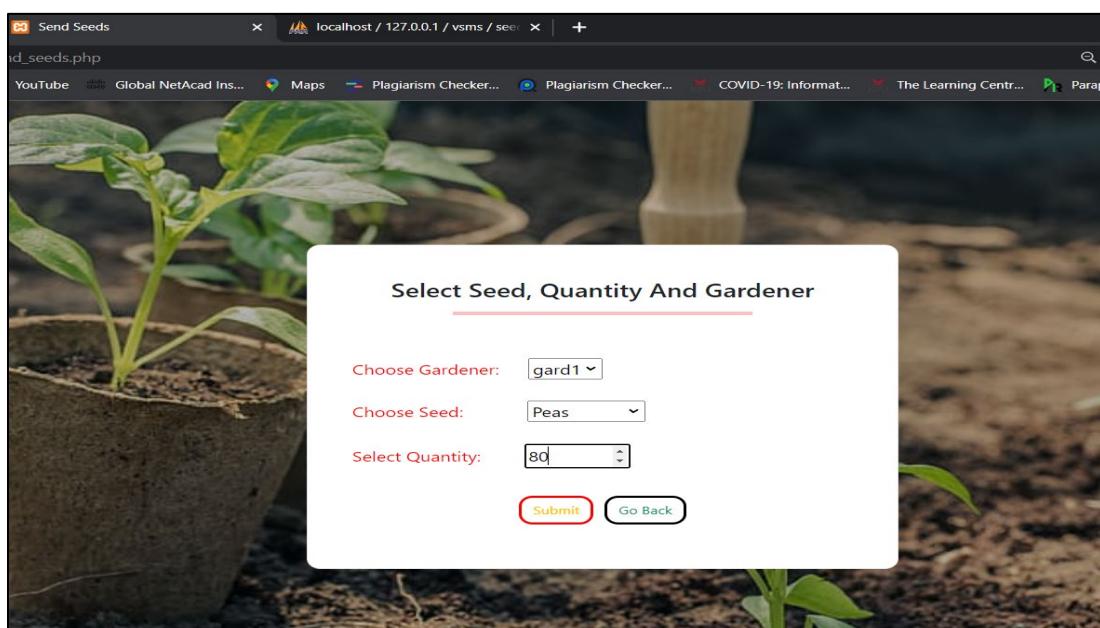
If the test pass or fail – Pass

Screenshot Of Testing-

(a) Quantity of Peas seed before gardener plant those seeds: 2440g

SELECT * FROM `seed`							
<input type="checkbox"/> Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]							
<input type="checkbox"/> Show all		Number of rows: 25		Filter rows: Search this table		Sort by key: None	
+ Options							
← T →		id	name	category	ptime	quantity	edate
<input type="checkbox"/>		Edit		Copy		Delete	17 Peas purchased Spring 2440 2024-12-11
<input type="checkbox"/>		Edit		Copy		Delete	18 Radish harvested Fall 217 2022-12-21

(b) Employee prepares 80g seeds for gard1 and Submit.



(c) Employee gets notification email about the seed sent by employee.

Inbox

Compose

Starred

Snoozed

Sent

Drafts

More

Meet

New meeting

Join a meeting

Search mail

1 of 2,445

Pick Seeds from Employee Office

kbsingh0008@gmail.com to me 8:20 PM (0 minutes ago)

Hi gard1,

This is a reminder that Peas seeds are ready for you to pick up from employee office

Thanks

Reply Forward

(d) gard1 has following seeds to plant

Admin Login Employee Dashboard Planted Seeds

localhost/vsms/seed_planted.php

Seeds And Quantity

ID	Seed Name	Quantity	Seed Planted
5	radish	10	<button>Confirm</button>
17	Spinach	23	<button>Confirm</button>
20	Peas	80	<button>Confirm</button>

Go Back

(e) gard1 confirms he has planted Peas seed. The seeds which are confirmed that are planted no longer appears in seeds to be planted by that gardener.

Admin Login Employee Dashboard Planted Seeds

localhost/vsms/seed_planted.php

Seeds And Quantity

ID	Seed Name	Quantity	Seed Planted
5	radish	10	<button>Confirm</button>
17	Spinach	23	<button>Confirm</button>

Go Back

(f) 80 seeds planted by gard1 gets deducted from original amount 2440 and new quantity changes to 2360 in the seed inventory.

<code>SELECT * FROM `seed`</code>											
<input type="checkbox"/> Profiling	Edit inline Edit Explain SQL Create PHP code Refresh										
<input type="checkbox"/> Show all	Number of rows:	25	<input type="button" value="▼"/>	Filter rows:	<input type="text" value="Search this table"/>				Sort by key:	<input type="button" value="N"/>	
+ Options	<input type="button" value="←"/>	<input type="button" value="→"/>	<input type="button" value="▼"/>	id	name	category	ptime	quantity	edate	simage	
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	17	Peas	purchased	Spring	2360	2024-12-11	peas.jpg

2.1.9. System Send Alert Emails to Administrator:

If quantity of any seeds is less than 500g, the system will send an automatically alert email to administrator to remind. If expire date of any seeds is less than 1 year, the system will send an automatically alert email to administrator as well.

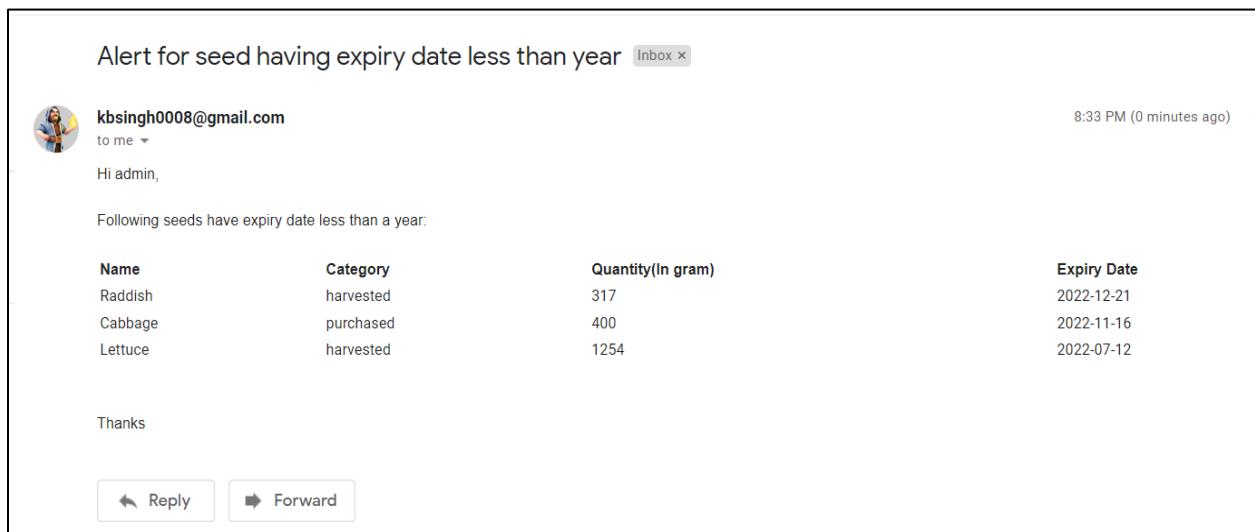
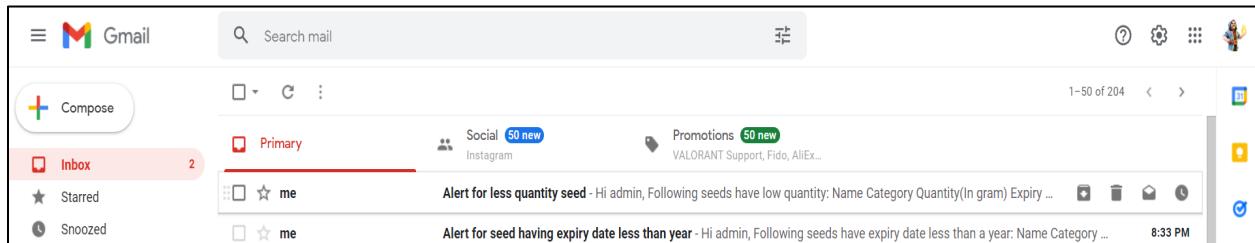
Test Case 1- When Administrator login into his account, system send 2 alert emails. One for less quantity seeds and other for those seeds which are close to expiry date.

Date Tested - 2 April 2022

Tester – Karanbir Singh

If the test pass or fail – Pass

Screenshot Of Testing-



Alert for less quantity seed Inbox

 **kbsingh0008@gmail.com**
to me ▾

8:33 PM (1 minute ago)

Hi admin,

Following seeds have low quantity:

Name	Category	Quantity(in gram)	Expiry Date
Raddish	harvested	317	2022-12-21
Cabbage	purchased	400	2022-11-16
Cucumber	purchased	248	2024-02-21
Beans	purchased	165	2021-04-22
Gaarlic	purchased	97	2019-12-30
Potatoes	harvested	368	2020-05-27

Thanks

Reply Forward

2.1.10. Administrator sends stock alert email to Employee:

[Adding this requirement according to Professor Jendy Wu feedback]

The administrator sends alert email to employee to plant those close to expire date seeds or order more seeds that have low quantity from other providers.

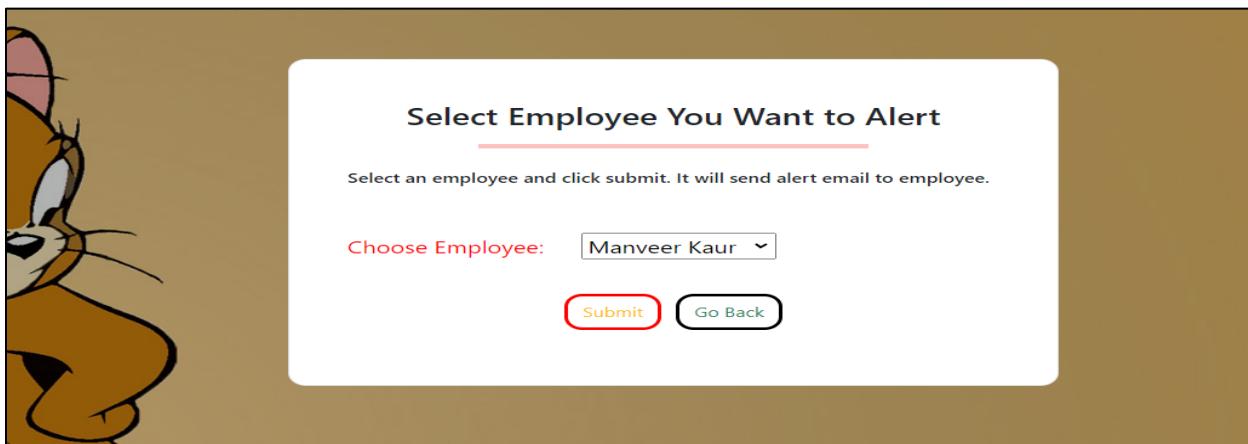
Test Case 1- The Administrator Chooses Employee named Manveer Kaur to send alert email.

Date Tested – 2 April 2022

Tester – Karanbir Singh

If the test pass or fail – Pass

Screenshot Of Testing-



Alert Regarding Stock [Inbox](#)

 kbsingh0008@gmail.com
to me ▾

Hi employee,

Following seeds have low quantity:

Name	Category	Quantity	Expiry Date
Raddish	harvested	317	2022-12-21
Cabbage	purchased	400	2022-11-16
Cucumber	purchased	248	2024-02-21
Beans	purchased	165	2021-04-22
Garlic	purchased	97	2019-12-30
Potatoes	harvested	368	2020-05-27

Following seeds have expiry date less than a year:

Name	Category	Quantity	Expiry Date
Raddish	harvested	317	2022-12-21
Cabbage	purchased	400	2022-11-16
Lettuce	harvested	1254	2022-07-12

Kindly, plant those close to expire date seeds or order more seeds that have low quantity from other providers.

Thanks

[Reply](#) [Forward](#)

2.1.11. Employee mark Expired seeds as Wasted:

[Adding this requirement according to Professor Jendy Wu feedback]

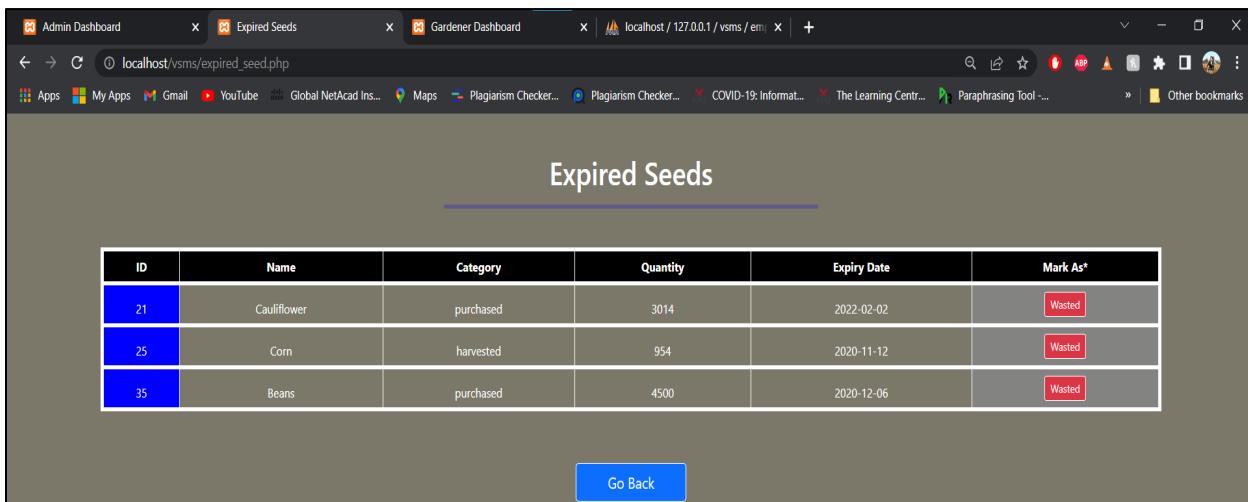
Test Case 1- Employee marks Beans as Wasted.

Date Tested – 2 April 2022

Tester – Karanbir Singh

If the test pass or fail – Pass

Screenshot Of Testing-



ID	Name	Category	Quantity	Expiry Date	Mark As*
21	Cauliflower	purchased	3014	2022-02-02	Wasted
25	Corn	harvested	954	2020-11-12	Wasted
35	Beans	purchased	4500	2020-12-06	Wasted

[Go Back](#)

SELECT * FROM `wastedseed`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table

+ Options

<input type="checkbox"/>	 Edit	 Copy	 Delete	1	Carrot	purchased	2198
<input type="checkbox"/>	 Edit	 Copy	 Delete	2	Potatoes	harvested	368
<input type="checkbox"/>	 Edit	 Copy	 Delete	3	Onion	harvested	1200
<input type="checkbox"/>	 Edit	 Copy	 Delete	4	Gaarlic	purchased	97
<input type="checkbox"/>	 Edit	 Copy	 Delete	5	Eggplant	harvested	789
<input type="checkbox"/>	 Edit	 Copy	 Delete	7	Beans	purchased	4500

← Check all With selected:  Edit  Copy  Delete  Export

2.1.12. Administrator Generates Reports:

Yearly reports generated by administrator talks about top 5 harvested seeds and top 5 wasted seeds of year. Monthly report shows list of gardeners with performance from most to least.

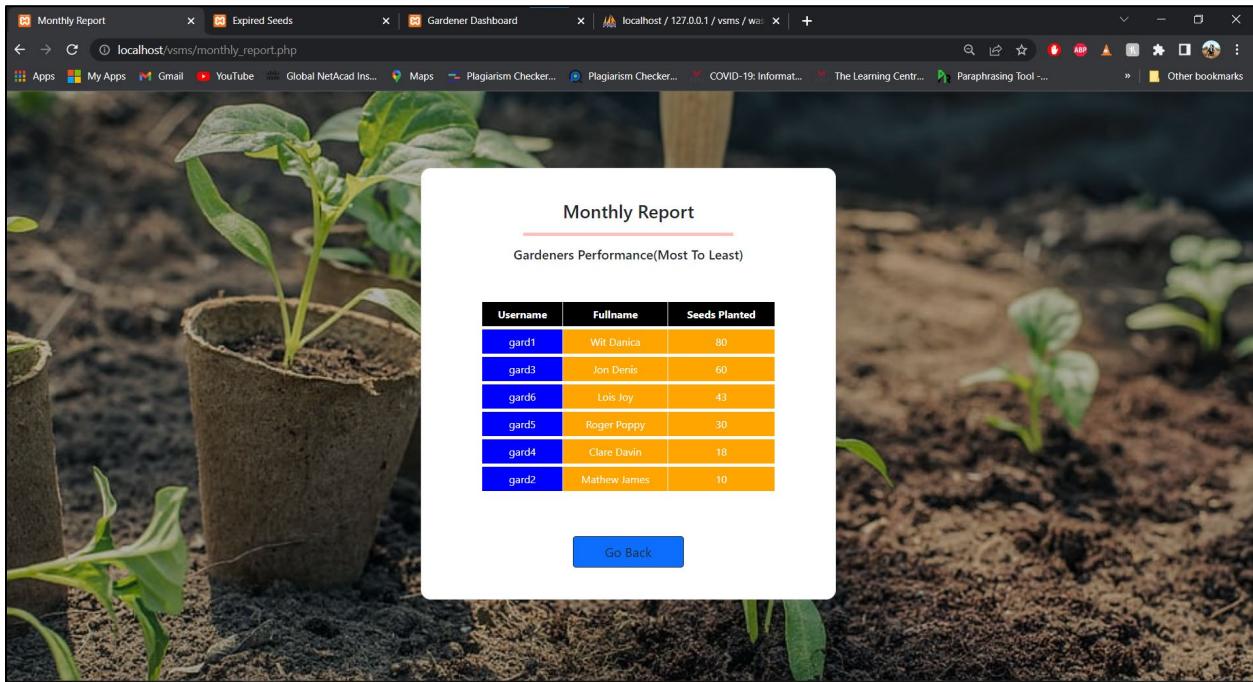
Test Case 1- Administrator clicks monthly report option

Date Tested – 3 April 2022

Tester – Karanbir Singh

If the test pass or fail – Pass

Screenshot Of Testing-



Username	Fullname	Seeds Planted
gard1	Wit Danica	80
gard3	Jon Denis	60
gard6	Lois Joy	43
gard5	Roger Poppy	30
gard4	Clare Davin	18
gard2	Mathew James	10

Test Case 2- Administrator clicks yearly report option

Date Tested – 3 April 2022

Tester – Karanbir Singh

If the test pass or fail – Pass

Screenshot Of Testing-

localhost / 127.0.0.1 / vsms / was

Yearly Report

Top 5 Harvested seeds

Seed	Seeds Planted
Peas	80
Lettuce	60
Tomatoes	43
Spinach	30
Raddish	18

Top 5 Wasted seeds

Seed	Wasted Seeds
Beans	4500
Carrot	2198
Onion	1200
Eggplant	789
Potatoes	368

Go Back

2.2 Non-Functional Requirements Testing

2.2.1. Performance: Performance of the website can easily be measured by how fast the system shows the result or how fast it responds to any action of user

Test Case 1- Searching seed to see website performance

When users type of name, category, planting time or any other thing in search bar and hits search, he immediately sees the search result within in milliseconds. This shows system is very fast and has high performance.

Date Tested – 3 April 2022

Tester – Karanbir Singh

If the test pass or fail – Pass

Screenshot Of Testing-

A screenshot of a web browser window titled "Search Seeds". The URL in the address bar is "localhost/vsms/adm_search_seed.php?search=purchased". The search term "purchased" is typed into the search input field. Below the search bar is a table with the following data:

NAME	CATEGORY	PLANTING TIME	QUANTITY(IN GRAM)	EXPIRY DATE	IMAGE
PEAS	PURCHASED	SPRING	2360	2024-12-11	
CABBAGE	PURCHASED	FALL	400	2022-11-16	
CAULIFLOWER	PURCHASED	FALL	3014	2022-02-02	
BROCCOLI	PURCHASED	SPRING	2465	2024-10-22	

2.2.2. Usability: Usability of the website can be measured by how user-friendly the system is and how easy it is for users to learn and use that system.

Test Case 1- Logging into Admin account to see interface and measure usability

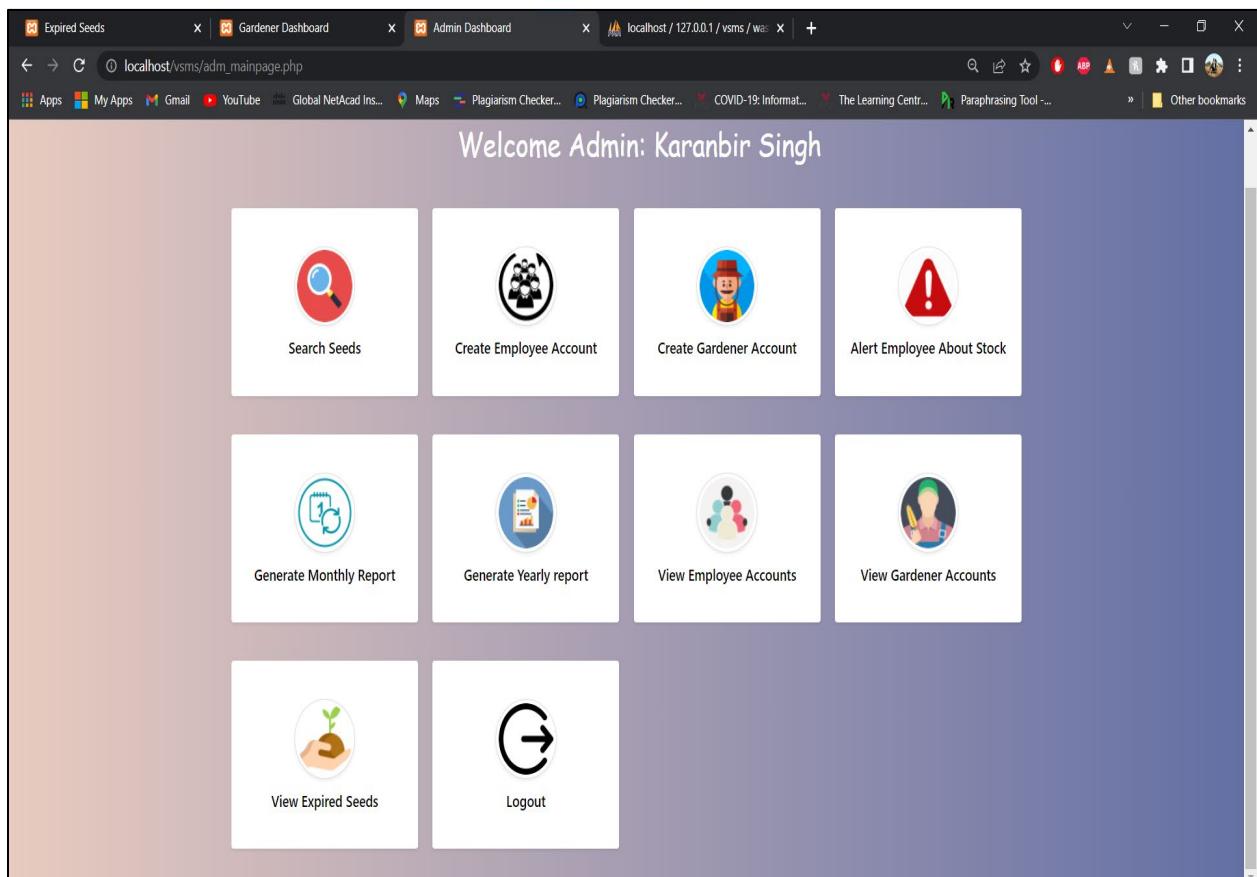
Our System is very easy to use. Everything is organized and divided into card like options making it easier for users to differentiate between all the tasks. Using such interface makes it a lot easier for everyone to finish task more quickly and efficiently.

Date Tested – 3 April 2022

Tester – Karanbir Singh

If the test pass or fail – Pass

Screenshot Of Testing-



2.2.3. Availability: Availability of the system can be measured by how long the system can perform efficiently without any crash or errors. The number of crashes or errors should be very low for a good system. High availability system means system working effectively at 99.98% or above even after a very long extended period.

Test Case 1- Running XAMPP every day for whole month of March

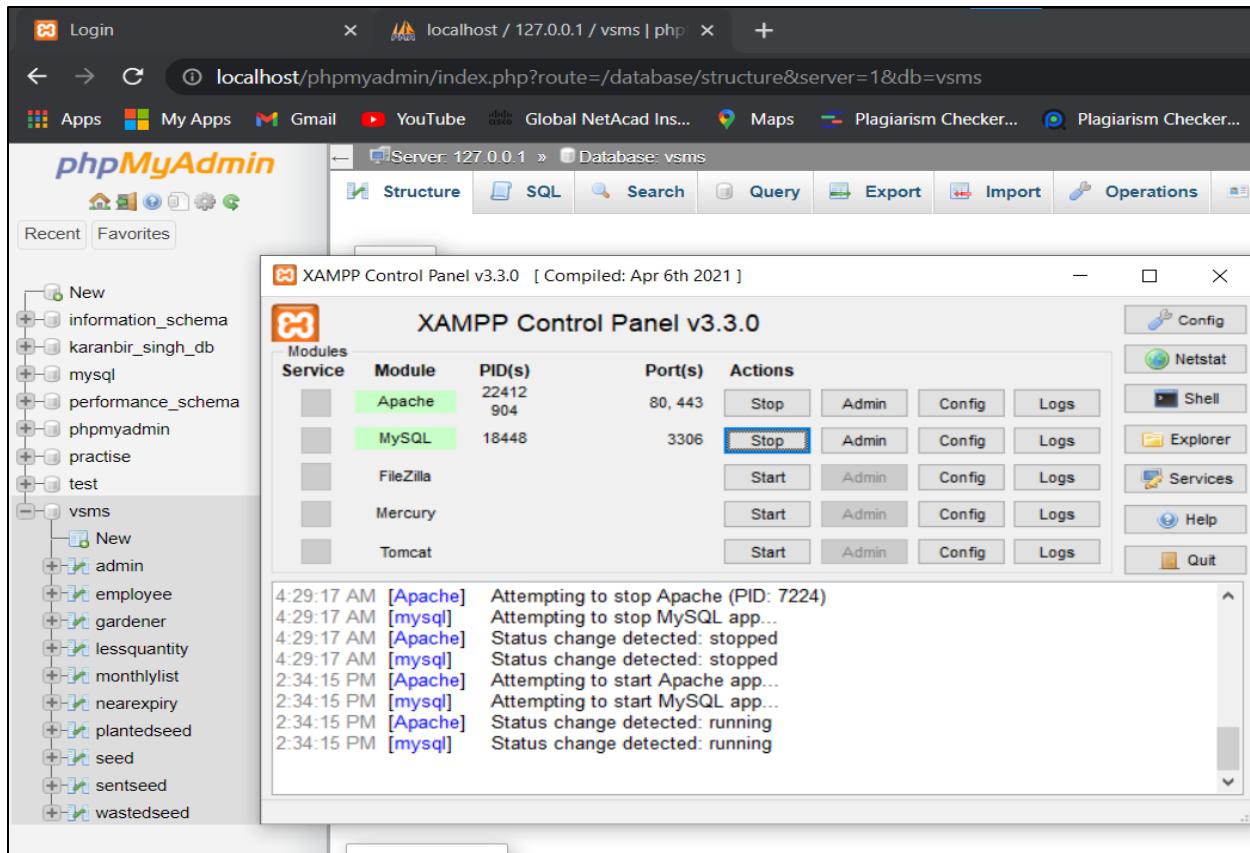
We ran our system for whole month of March and not even single time our system crashed or failed. The reason behind this is that our system is locally hosted by XAMPP and normally for locally hosted websites, chance of crash or failure is almost negligible making our system availability almost 99.999%.

Date Tested – 1 March 2022 to 4 April 2022

Tester – Karanbir Singh

If the test pass or fail – Pass

Screenshot Of Testing-



2.2.4 Security: Security of the system can be measured by how secure our system is from hackers and attackers. Security also refers to making sure that users accounts, and their personal information is secured.

Test Case 1- Trying login into admin account with correct username but wrong password

Our system is very secure and there are two reasons behind it. Firstly, it is locally hosted, so it is safe from internet attacks such as sql injections or cross-site scripting. Secondly, any unauthorized user can not access the system because to use the system it needs login.

Date Tested – 3 April 2022

Tester – Karanbir Singh

If the test pass or fail – Pass

Screenshot Of Testing-

