IT314
Software Engineering

Group 5
Hostel Management System

System Testing Document

Instructor: Dr. Saurabh Tiwari and Dr. Manish Khare

Date: 27/04/2023

Black Box Testing

1. HOME PAGE WITHOUT LOGIN (black box testing)

TEST -1:

Input	Expected output	Actual Output
Clicking on more link available on home page before LOGIN	Failed attempt to redirect	Redirect to Notice board

TEST -2:

Input	Expected output	Actual Output
Clicking on more link available on home page before LOGIN	Failed attempt to redirect	Stay on home page

2. LOGIN PAGE (black box testing)

Input	Expected output	Actual Output
Existing Username Correct Password	Successful login and Redirect	Redirect to Home page
Existing username Wrong Password	No Login with Invalid Password alert	Pop-up alert saying invalid credentials
Invalid username	Invalid username alert	Pop-up alert saying invalid username

3. CHANGE PASSWORD (black box testing)

Input	Expected output	Actual Output
Existing Username Correct Password	Successful change in password and Redirect to	Redirect to dashboard. Successful login after logut

	login page/dashboard. Login with new password after logout.	with new password.
Existing username Wrong Password	No Change with Invalid Password alert	Pop-up alert saying invalid password
Invalid username	Invalid username alert	Pop-up alert saying user not exists

4. LOGOUT (black box testing)

Input	Expected output	Actual Output
Logout when at home page	Successful logout. Redirect to home page	Successful logout. Option to navigate site disabled.
Logout when at any other page(Notice/ Complain/ Courier/ Lost and Found)	Successful logout. Redirect to home page	Successful logout. Option to navigate site disabled.

5. NOTICE BOARD

a. NOTICE BOARD: STUDENT (black box testing)

Input	Expected output	Actual Output
Search Notice with some text	All notices with given text	All notices with given content found in header/ content updated with type of each character
Filter Notice by writer	Get all writers in dropdown. Display notices from selected authors	All writers displayed in dropdown. Notices of selected author displayed

b. NOTICE BOARD: ADMIN (black box testing)

TEST -1:

Input	Expected output	Actual Output
Search Notice with some text	All notices with given text	All notices with given content found in header/ content updated with type of each character
Filter Notice by writer	Get all writers in dropdown. Display notices from selected authors	All writers displayed in dropdown. Notices of selected author displayed
Add new notice with all fields	Successful addition of new notice and updating display	Addition of new notice and update of display
Add new notice with fields missing	Failure to add new notice	Addition of new notice and update of display
Deletion of notice	Successful deletion and updating display	Successful deletion but no reload of page to display update.

6. COMPLAINTS BOARD

a. COMPLAINTS BOARD: STUDENT (black box testing)

Input	Expected output	Actual Output
Add new complaint with all fields	Successful addition of new complaint	Addition of new complaint and update of display
Add new complaint with fields missing	Failure to add new complaint	User prevented from adding the complaint

b. COMPLAINTS BOARD: ADMIN (black box testing)

TEST -1:

Input	Expected output	Actual Output
Add new complaint with all fields	Successful addition of new complaint	Addition of new complaint and update of display

Add new complaint with fields missing	Failure to add new complaint	User prevented from adding the complaint
Deletion of complaint	Successful deletion and display updated	Successful deletion but no reload of page to display update.

TEST -2:

Input	Expected output	Actual Output
Deletion of complaint	Successful deletion and display updated	Successful deletion and reload of page to display update.

7. COURIERS

a. **COURIERS: STUDENT** (black box testing)

Input	Expected output	Actual Output
Search Couriers for some name	All couriers for given name	All couriers with given student name. List updated instantly with each character.

b. **COURIERS: ADMIN** (black box testing)

Input	Expected output	Actual Output
Add new courier with no fields empty	Addition of courier. Display updated	New courier added. List updated with refresh of page
Add new courier with missing fields	Failure to add new courier	Failure to add new courier. Pop up explaining the missing field/ constraint
Add new courier with an existing courier ID	Don't add new courier	New courier not added. Pop up alerts the fault

Deletion of courier	Deletion of courier. Display updated	Successful deletion of courier. Display updated.

8. LOST AND FOUND

a. **LOST AND FOUND: STUDENT** (black box testing)

TEST -1:

Input	Expected output	Actual Output
Add new item with no fields empty	Addition of item. Display updated	New item added. Display updated
Add new item with missing data fields(except lost/ found)	Failure to add new courier	Failure to add new courier. Display does not show the added courier
Add new item with all data fields but without selecting lost/found	Failure to add new courier	New item added. Display updated

TEST -2:

Input	Expected output	Actual Output
Add new item with all data fields but without selecting lost/found	Failure to add new courier	Failure to add new courier. Display does not show the added courier

b. **LOST AND FOUND: ADMIN** (black box testing)

TEST -1:

Input	Expected output	Actual Output
Add new item with no fields empty	Addition of item. Display updated	New item added. Display updated by page refresh

Add new item with missing data fields(except lost/found)	Failure to add new courier	Failure to add new courier. Display does not show the added courier
Add new item with all data fields but without selecting lost/found	Failure to add new courier	New item added. Display updated by page refresh
Deleting an item	Deletion of item. Updation of list	Item deleted. Display updated by page refresh

TEST -2:

Input	Expected output	Actual Output
Add new item with all data fields but without selecting lost/found	Failure to add new courier	Failure to add new courier. Display does not show the added courier

Acceptance Testing

1. Test Case: Add Notice

Objective: To verify that the "add notice" functionality of the hostel management website meets the business requirements and functions as intended.

Preconditions:
- The user has a valid account and is logged in to the hostel management website.
- The user wants to make an announcement.
- The user must have the role as **admin**.

Steps:
1. Navigate to the notices page using the sidebar.
2. Click on the "Add Notice" button.

3. Verify the title, message and creator name the user wants to add is added to the respective text fields.
4. Click on the "Add" button.
5. Verify that the notice is added.
6. Verify that multiple notices can be added by a single user.
7. Verify that the number of notices added is correct(no repetition).
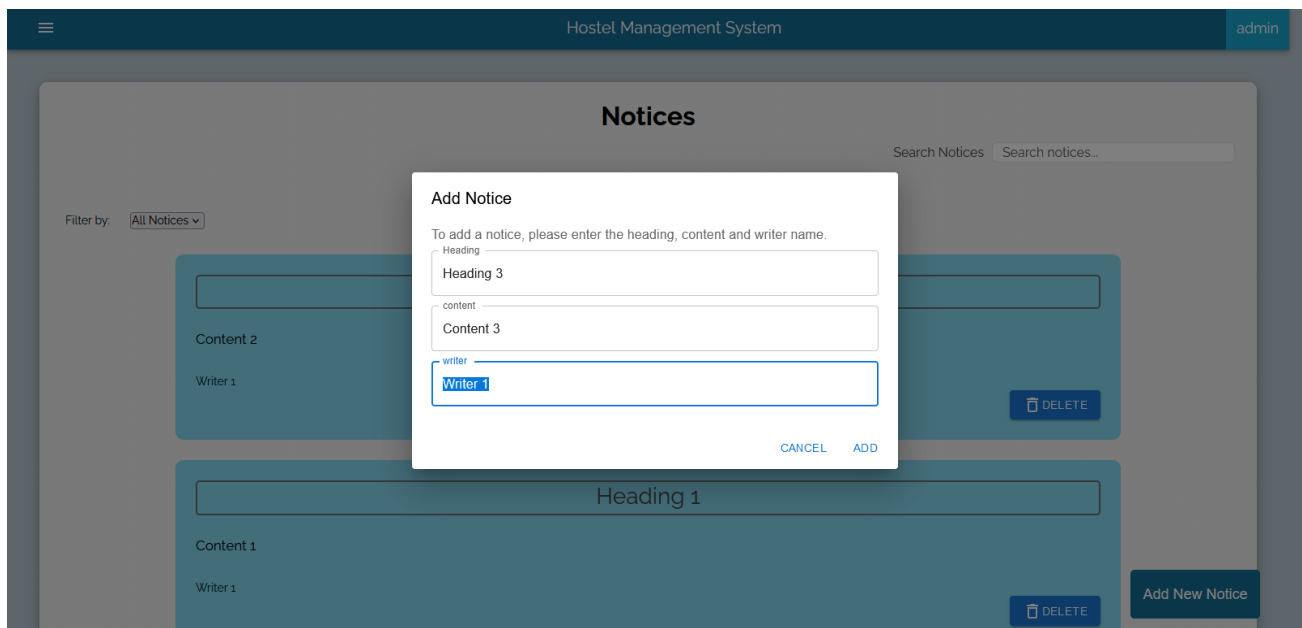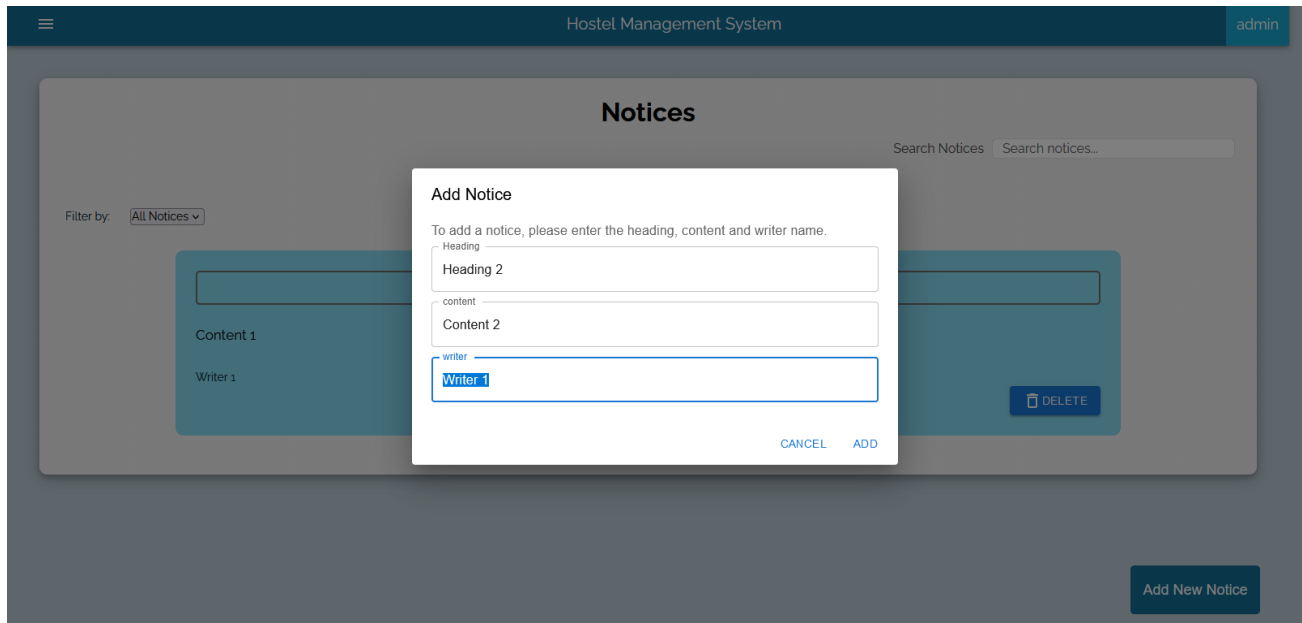
Expected Result:
- The user should be able to add notices.
- The notices log should be updated with the new added notice.
- The user should be able to view the new notice in the log.
- The user should also be able to view the notice on the home screen.

Results:
- Adding first notice from writer 1.
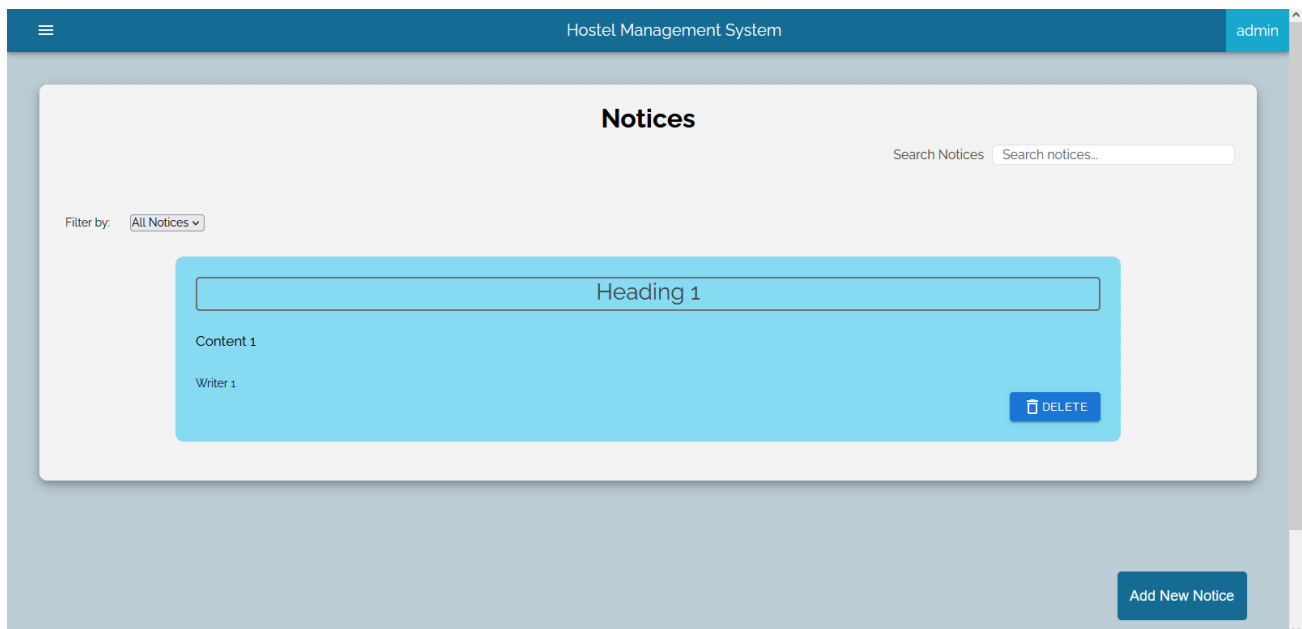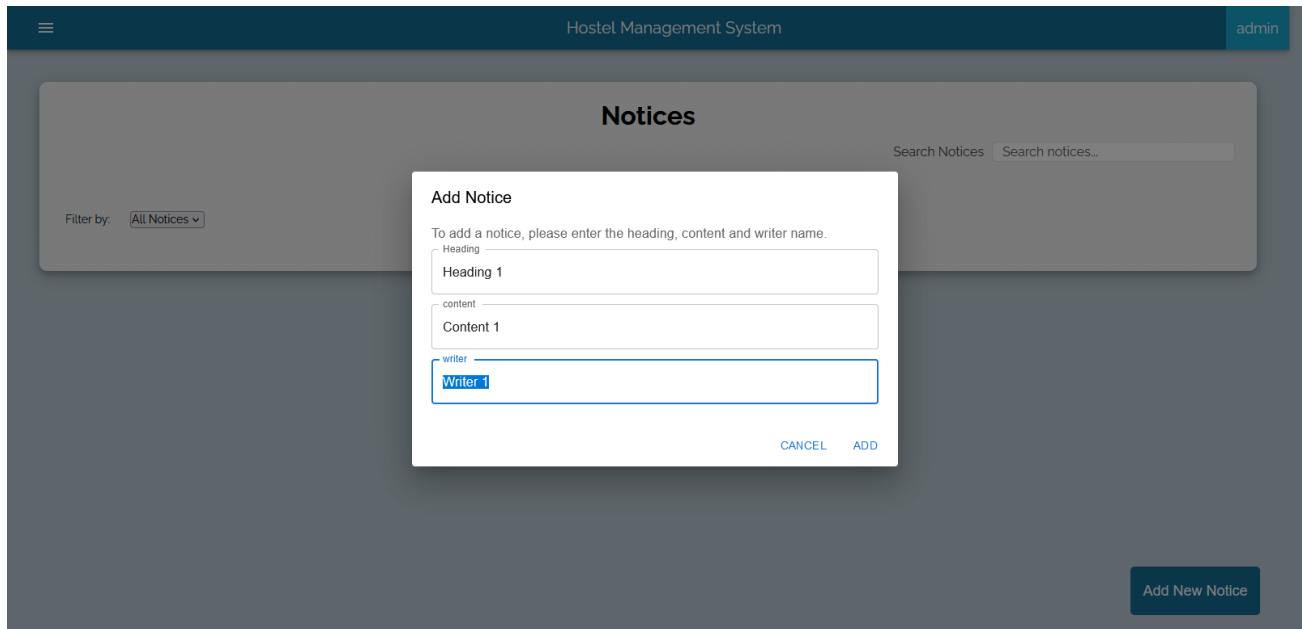
- Adding multiple notices from writer 1.

admin

Notices

Search Notices | Search notices...

Filter by: All Notices ⌄

Content 1

Writer 1

Add Notice

To add a notice, please enter the heading, content and writer name.

Heading
Heading 2

content
Content 2

writer
Writer 1

CANCEL   ADD

🗑 DELETE

Add New Notice

---

admin

Notices

Search Notices | Search notices...

Filter by: All Notices ⌄

Content 2

Writer 1

Add Notice

To add a notice, please enter the heading, content and writer name.

Heading
Heading 3

content
Content 3

writer
Writer 1

CANCEL   ADD

🗑 DELETE

Heading 1

Content 1

Writer 1

🗑 DELETE

Add New Notice

2. Test Case: Delete Notice

Objective: To verify that the "delete notice" functionality of the hostel management website meets the business requirements and functions as intended.

Preconditions:
- The user has a valid account and is logged in to the hostel management website.
- The user wants to delete a notice.
- The user should have the role as **admin**.

Steps:
1. Navigate to the notices page using the sidebar.
2. Click on the "Delete" button corresponding to the notice the user wants to delete.
3. Verify that the notice is deleted.

Expected Result:
- The user should be able to delete the notice.
- The notices log should be updated with the deletion of notice.
- The user should be able to view the updated notice log.
- The user should also be able to view the updated notice log on the home screen.(if the notice deleted was one of the latest four notices)

Results:
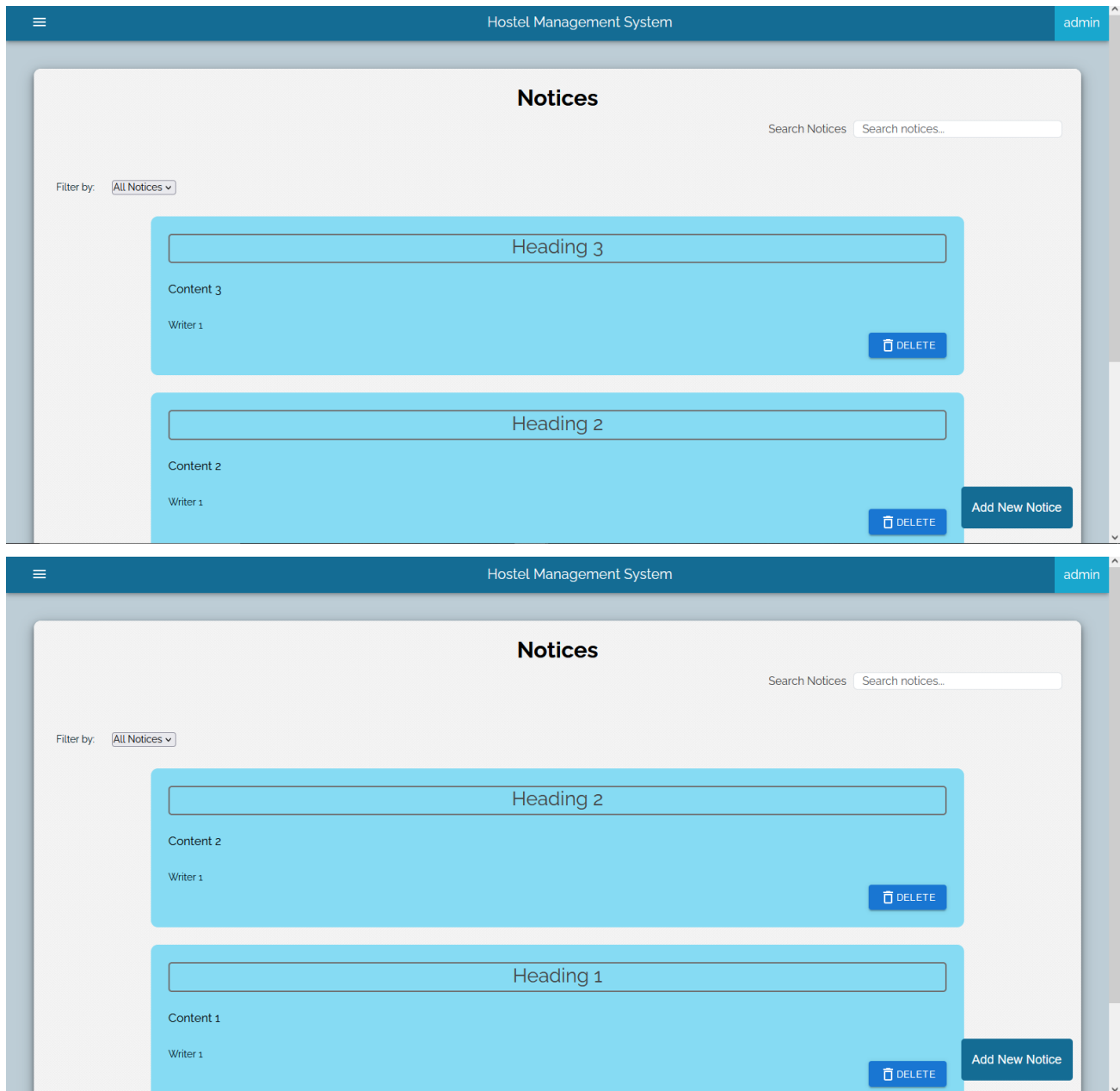
3. Test Case: Filter Notice

Objective: To verify that the "filter notice" functionality of the hostel management website meets the business requirements and functions as intended.

Preconditions:
- The user has a valid account and is logged in to the hostel management website.
- The user wants to read notices from a specific author.
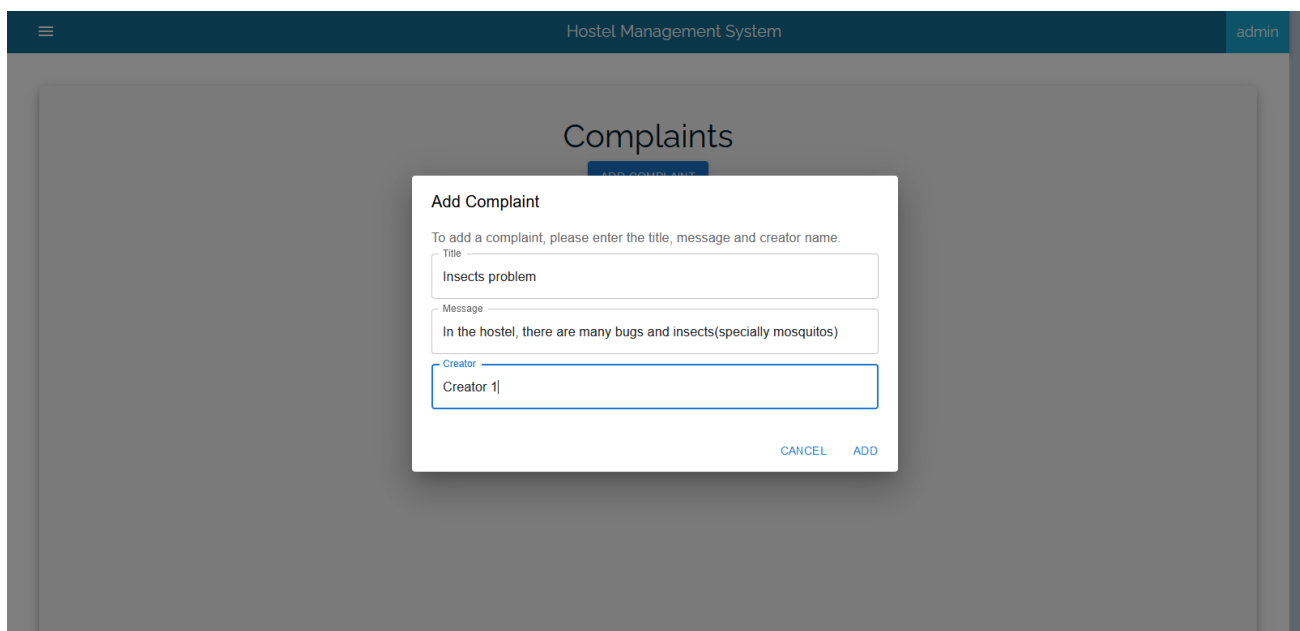
Steps:
1. Navigate to the notices page using the sidebar.
2. Click on the "Filter By" button to select the "Author" option.
3. Select the "Author" from which the user wants to see the notices.
4. Verify whether the notices previewed in the notices log are from the desired author.

Expected Result:
- The user should be able to filter notices.
- The notices log should be updated according to the author selected.

Results:
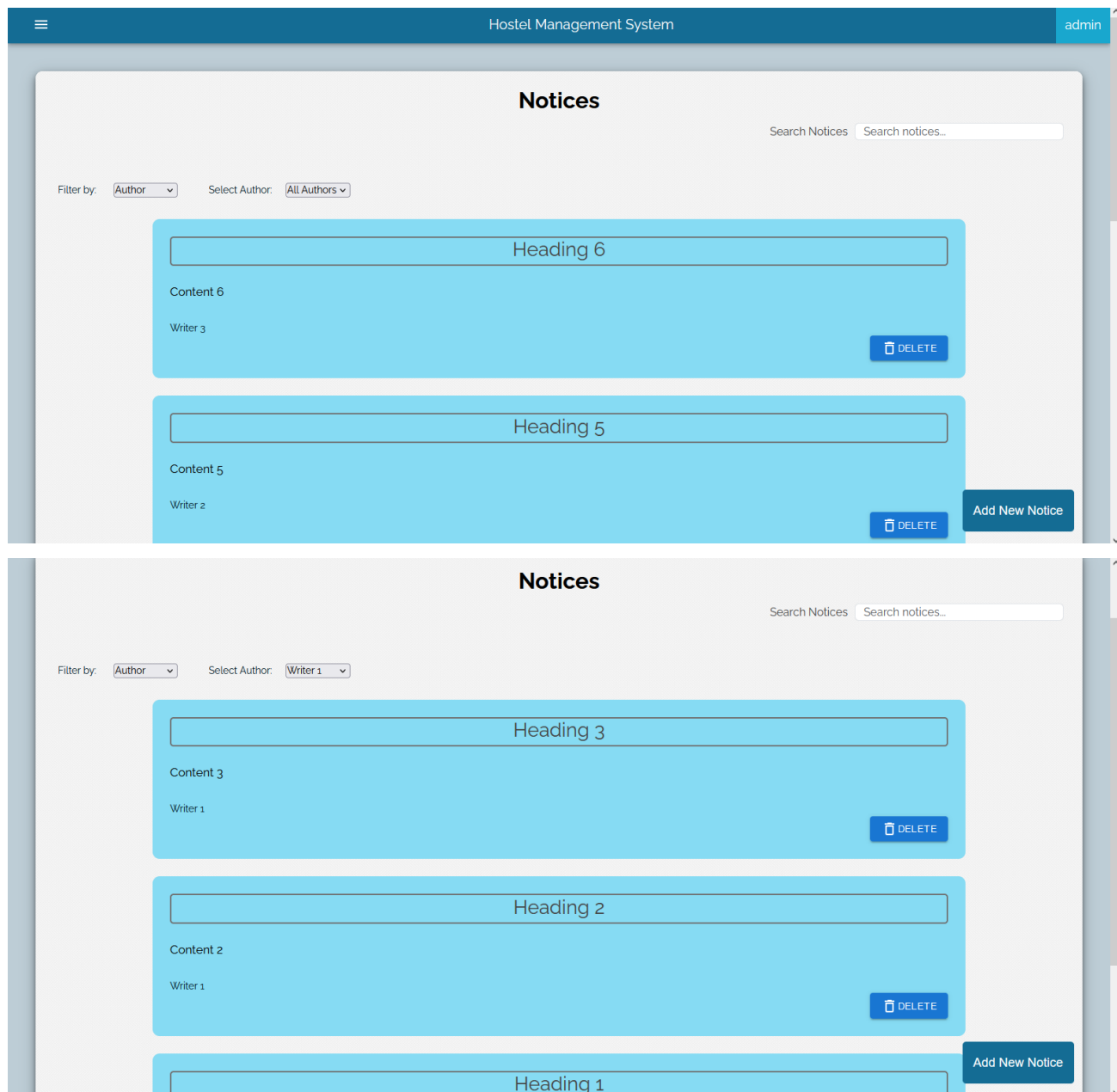
4. Test Case: Search Notice

Objective: To verify that the "search notice" functionality of the hostel management website meets the business requirements and functions as intended.

Preconditions:
- The user has a valid account and is logged in to the hostel management website.

- The user wants to read notices with a specific heading or content.

Steps:
1. Navigate to the notices page using the sidebar.
2. Verify the "Heading" or "Content" written in the search bar field.
3. Verify whether the notices previewed in the notices log are of the desired "Heading" or "Content".

Expected Result:
- The user should be able to search notices.
- The notices log should be updated according to the writing of the "Header" or "Content".

Results:
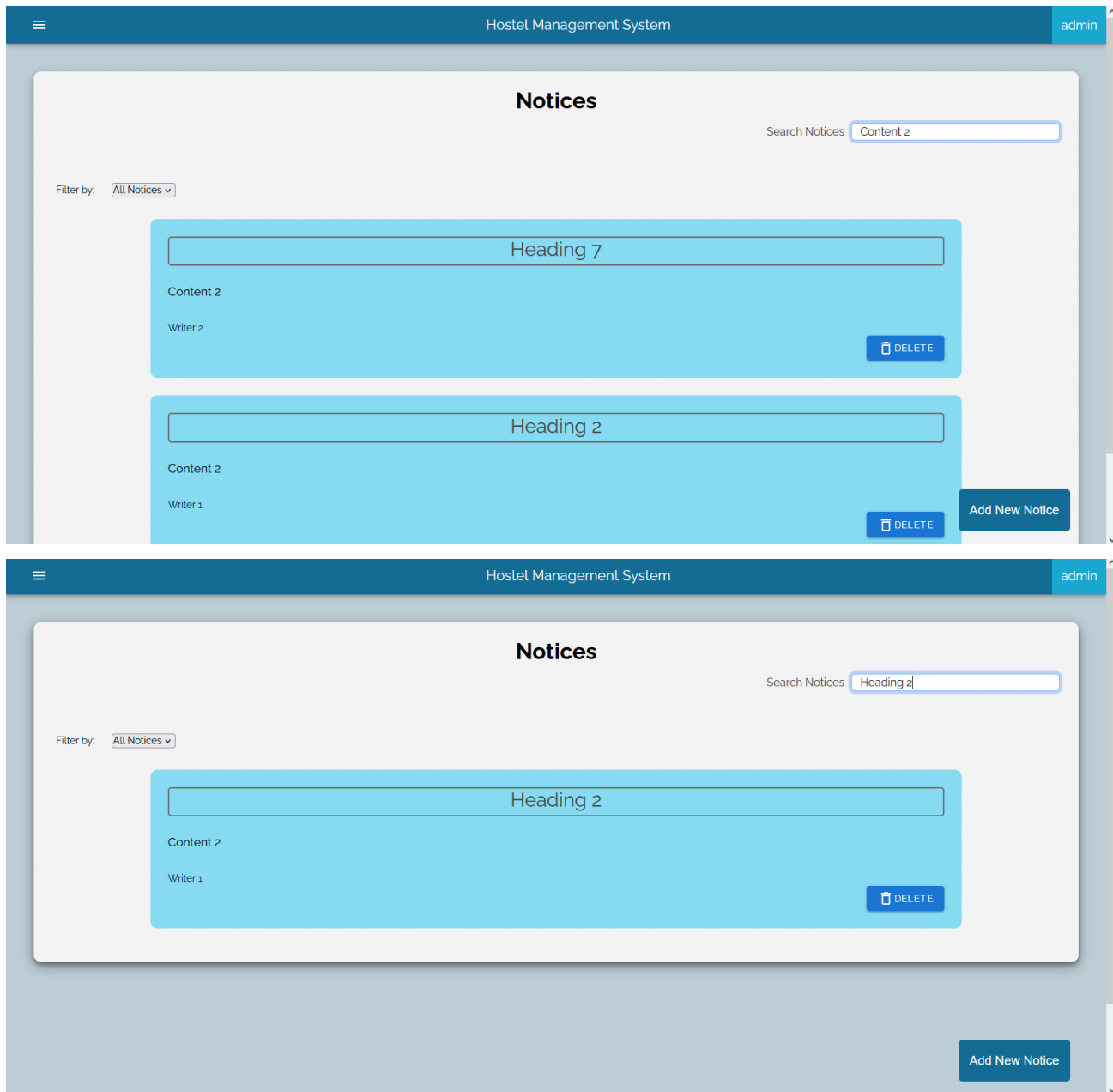
5. Test Case: Add Complaint

Objective: To verify that the "add complaint" functionality of the hostel management website meets the business requirements and functions as intended.

Preconditions:
- The user has a valid account and is logged in to the hostel management website.

- The user wants to lodge a complaint.

Steps:
1. Navigate to the complaints page using the sidebar.
2. Click on the "Add Complaint" button.
3. Verify the title, message and creator name the user wants to add is added to the respective text fields.
4. Click on the "Add" button
5. Verify that the complaint is added.
6. Repeat steps 1-5 for every role(student and admin).
7. Verify that multiple complaints can be added by a single user.
8. Verify that the number of complaints added is correct(no repetition).

Expected Result:
- The user should be able to add complaints.
- The complaints log should be updated with the new added complaint.
- The user should be able to view the new complaint in the log.

Results:

Complaints

ADD COMPLAINT

Insects problem

In the hostel, there are many bugs and insects(specially mosquitos)

- Creator 1

DELETE
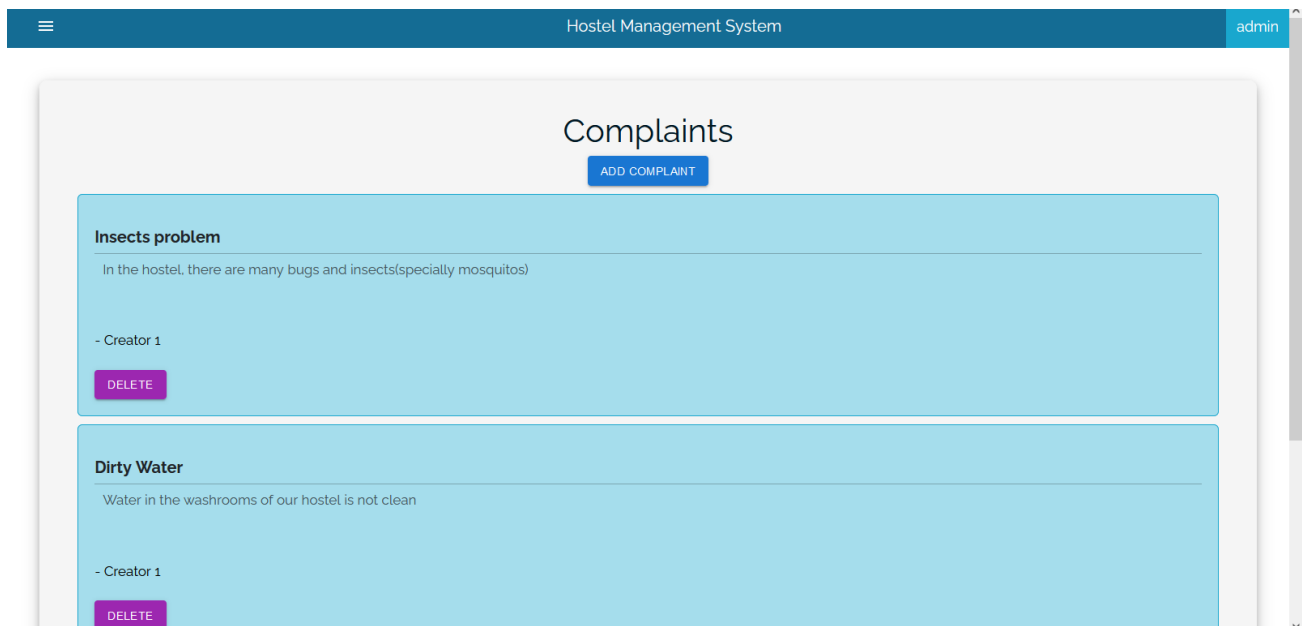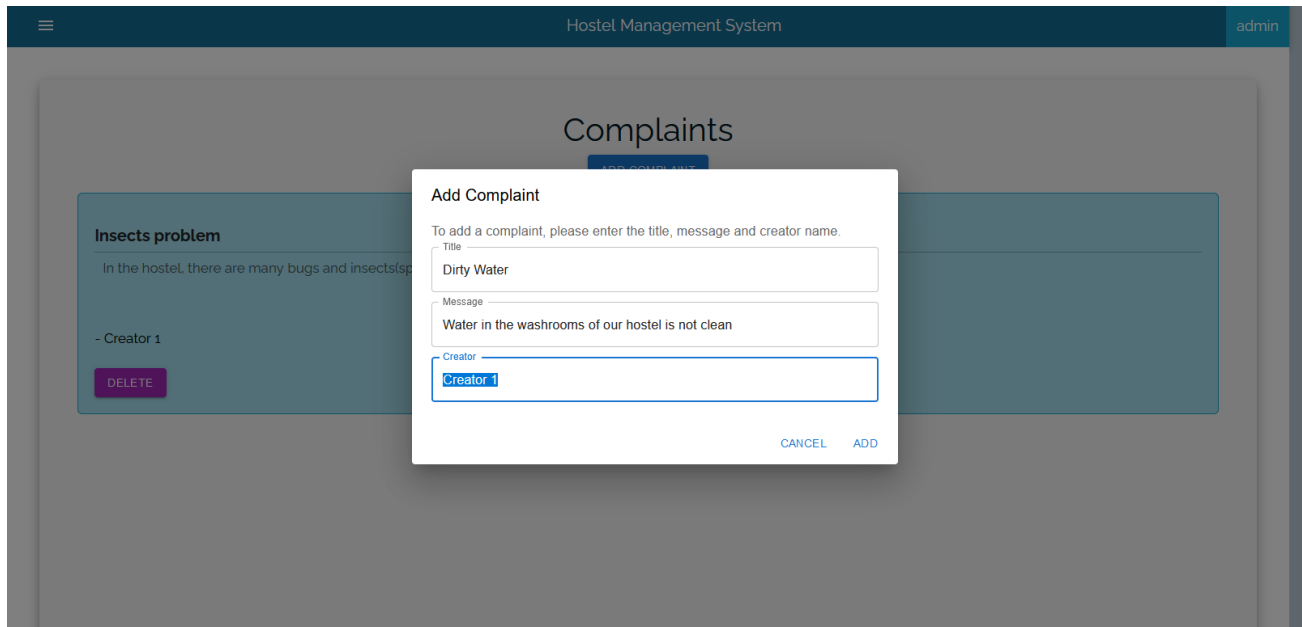
6. Test Case: Delete Complaint

Objective: To verify that the "delete complaint" functionality of the hostel management website meets the business requirements and functions as intended.

Preconditions:
- The user has a valid account and is logged in to the hostel management website.
- The user wants to delete a complaint.

- The user must have the role as **admin**.

Steps:
1. Navigate to the complaints page using the sidebar.
2. Click on the "Delete" button corresponding to the complaint the user wants to delete.
3. Verify that the complaint is deleted.

Expected Result:
- The user should be able to delete complaints.
- The complaints log should be updated with the deletion of complaints.
- The user should be able to view the updated complaint log.

Results:
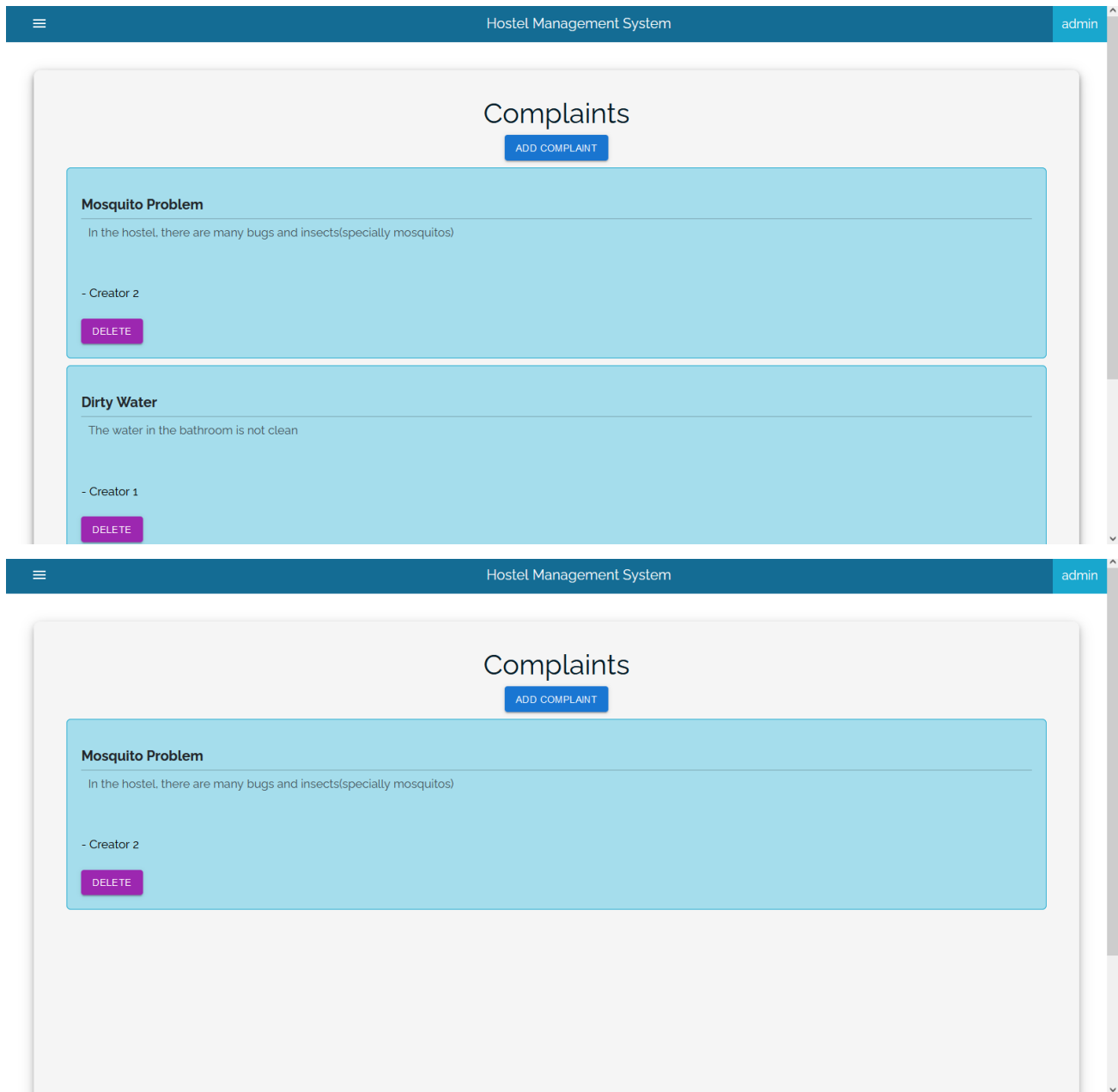
7. Test Case: Add Courier

Objective: To verify that the "add courier" functionality of the hostel management website meets the business requirements and functions as intended.

Preconditions:

- The user has a valid account and is logged in to the hostel management website.
- The user wants to add a courier.
- The user should have the role as **admin**.

Steps:
1. Navigate to the couriers page using the sidebar.
2. Verify the title, message and creator name the user wants to add is added to the respective text fields.
3. Click on the "Add" button
4. Verify that the courier is added.
5. Verify that multiple couriers can be added by a single user.
9. Verify that the number of couriers added is correct(no repetition).

Expected Result:
- The user should be able to add courier.
- The couriers log should be updated with the new added courier.
- The user should be able to view the new couriers in the log.

Results:

Couriers Updates

Students are requested to collect their couriers from the room of Hostel Supervisor within a month of receiving. This List is updated daily.

As admin you can add new couriers to list

Student name: [ ] Room Number: [ ] Courier ID: [ ] ➤

Index	Student Name	Room No.	Courier ID	Date	Delete
1	Prakarsh Mathur	B307	C12345	2023-04-28	🗑

Couriers Updates

Students are requested to collect their couriers from the room of Hostel Supervisor within a month of receiving. This List is updated daily.

As admin you can add new couriers to list

Student name: Vushil Bhavsar   Room Number: B307   Courier ID: C98765 ➤

Index	Student Name	Room No.	Courier ID	Date	Delete
1	Prakarsh Mathur	B307	C12345	2023-04-28	🗑

Couriers Updates

Students are requested to collect their couriers from the room of Hostel Supervisor within a month of receiving. This List is updated daily.

As admin you can add new couriers to list

Student name: Room Number: Courier ID: ➤

Index	Student Name	Room No.	Courier ID	Date	Delete
1	Vushil Bhavsar	B307	C98765	2023-04-28	🗑
2	Prakarsh Mathur	B307	C12345	2023-04-28	🗑

8. Test Case: Delete Courier

Objective: To verify that the "delete courier" functionality of the hostel management website meets the business requirements and functions as intended.

Preconditions:
- The user has a valid account and is logged in to the hostel management website.
- The user wants to delete a complaint.

- The user must have the role as **admin**.

Steps:
1. Navigate to the couriers page using the sidebar.
2. Click on the "Delete" button corresponding to the courier the user wants to delete.
3. Verify that the courier is deleted.

Expected Result:
- The user should be able to delete the courier.
- The couriers log should be updated with the deletion of the courier.
- The user should be able to view the updated couriers log.

Results:

9. Test Case: Search Courier

Objective: To verify that the "search courier" functionality of the hostel management website meets the business requirements and functions as intended.

Preconditions:
- The user has a valid account and is logged in to the hostel management website.

- The user wants to see if any courier has been received with their name.
- The user must have the role as **student**.

Steps:
1. Navigate to the couriers page using the sidebar.
2. Verify the "Name" written in the search bar field.
3. Verify whether the couriers previewed in the couriers log are of the desired "Name".

Expected Result:
- The user should be able to search the name for the couriers' receiver.
- The couriers log should be updated according to the "Name".

Results:

10. Test Case: Add Lost/Found Item

Objective: To verify that the "add lost/found item" functionality of the hostel management website meets the business requirements and functions as intended.

Preconditions:

- The user has a valid account and is logged in to the hostel management website.
- The user loses/finds an item and wants to report it.

Steps:
1. Navigate to the Lost/Found page using the sidebar.
2. Verify the item name, student ID, student contact number and item description the user wants to add is added to the respective text fields.
3. Verify the status of the item(lost or found).
4. Click on the "Submit" button
5. Verify that the item is added.
10. Repeat steps 1-5 for every role(student and admin).
11. Verify that multiple items can be added by a single user.
12. Verify that the number of items added is correct(no repetition).

Expected Result:
- The user should be able to add items.
- The items log should be updated with the new added item.
- The user should be able to view the new item in the log.

Results:

Lost and Found

Report and check your items here.

Found a lost item? Fill out the form below!

Looking for a lost item? Check out the table below!

Index	Item Name	Item Description	Student ID	Student Contact	Status	
1	Lost 1	Description 1	ID1	9021210121	lost	🗑

Item Name

Student ID

Student Contact

Item Description

Item status

◯ Lost   ◯ Found

SUBMIT

Lost and Found

Report and check your items here.

Found a lost item? Fill out the form below!

Looking for a lost item? Check out the table below!

Index	Item Name	Item Description	Student ID	Student Contact	Status	
1	Lost 1	Description 1	ID1	9021210121	lost	🗑

Item Name
Found 1

Student ID
ID2

Student Contact
1310090130

Item Description
Description 2

Item status

○ Lost ◉ Found

SUBMIT

Contact Us   Useful Links   Follow Us On

Lost and Found

Report and check your items here.

Found a lost item? Fill out the form below!

Looking for a lost item? Check out the table below!

Index	Item Name	Item Description	Student ID	Student Contact	Status

Item Name
Lost 1

Student ID
ID1

Student Contact
9021210121

Item Description
Description 1

Item status

◉ Lost ○ Found

SUBMIT

Contact Us   Useful Links   Follow Us On

11. Test Case: Delete Lost/Found Item

Objective: To verify that the "delete lost/found item" functionality of the hostel management website meets the business requirements and functions as intended.

Preconditions:
- The user has a valid account and is logged in to the hostel management website.
- The user wants to delete a lost/found item.
- The user must have the role as **admin**.

Steps:

1. Navigate to the lost/found page using the sidebar.
2. Click on the "Delete" button corresponding to the item the user wants to delete.
4. Verify that the item is deleted.

Expected Result:

- The user should be able to delete the item.
- The items log should be updated with the deletion of the item.
- The user should be able to view the updated items log.

● Results:

Hostel Management System   admin

Lost and Found
Report and check your items here.

Found a lost item? Fill out the form below!

Looking for a lost item? Check out the table below!

Index	Item Name	Item Description	Student ID	Student Contact	Status	
1	Found 2	Description 4	Description 4	9013131001	found	🗑
2	Lost 2	Description 3	Description 2	9090900999	lost	🗑
3	Found 1	Description 2	ID2	1310090130	found	🗑
4	Lost 1	Description 1	ID1	9021210121	lost	🗑

Item Name

Student ID

Student Contact

Item Description

Item status

◯ Lost   ◯ Found

SUBMIT

Contact Us   Useful Links   Follow Us On

Hostel Management System   admin

Lost and Found
Report and check your items here.

Found a lost item? Fill out the form below!

Looking for a lost item? Check out the table below!

Index	Item Name	Item Description	Student ID	Student Contact	Status	
1	Found 1	Description 2	ID2	1310090130	found	🗑
2	Lost 1	Description 1	ID1	9021210121	lost	🗑

Item Name

Student ID

Student Contact

Item Description

Item status

◯ Lost   ◯ Found

SUBMIT

Contact Us   Useful Links   Follow Us On