



Daffodil
International
University

Content Management System

By

Md. Tareq Munawar

Id: 161-35-1586

This Project report has been submitted in fulfillment of the requirements
for the Degree
of
Bachelor of Science in Software Engineering.

Department of Software Engineering
DAFFODIL INTERNATIONAL UNIVERSITY
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Daffodil
International
University

Content Management System (CMS)

Submitted to

Ms. Fatama Binta Rafiq

Lecturer

Department of SWE

Daffodil International University

Submitted by

Md. Tareq Munawar

ID: 161-35-1586

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DECLARATION

It hereby declares that this project has been completed by me under the supervision of Ms. Fatama Binta Rafiq, Lecturer, Department of Software Engineering, Daffodil International University. It is also declared that neither this work nor any part of this has been submitted elsewhere for award of any degree by me.

Md. Tareq Munawar

Student ID: 161-35-1586

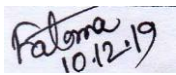
Batch: 19th

Department of Software Engineering

Faculty of Science & Information Technology

Daffodil International University

Certified by:



Ms. Fatama Binta Rafiq

Lecturer

Department of Software Engineering

Faculty of Science & Information Technology

Daffodil International University

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Chapter 1: Introduction

The system is designed to serve latest news that comes from all over the world. We can't think of or day without news. Newspaper plays a vital role in our society. This is why newspaper is so important. There are mainly two actors in my project. They are visitor and admin.

1.1 Project Overview

This content management system is designed to serve latest news. News will be decorated category wise so that people are able to read the news easily. Visitor visits the website and gets into home page. Home page contains a search bar, categories or menu bars, breaking news, casual news, featured news, popular news, most popular news, world news, and many more. Visitor can choose any category from menu bar, search news, share news and add a comment using social plugin.

Admin is secondary actor in my project. Admin do the entire administrative work like add a category, editing a category, adding news and many more. Admin have to register first. Login page appears after registration. Admin provides login credentials to login to the admin panel. Also admin can update his/her profile information.

1.2 Project Purpose

The project is mainly an online news portal. Latest news from all over the world is the main property of this system.

1.2.1 Background

My project is a content management system which has a large amount of content. Content is one of the most powerful properties to spread knowledge. We can get all the information by contents. There are some fundamental prerequisites of my project. Admin have to register to use admin panel.

1.2.1 Benefits and Beneficiaries

The website is designed for people of all professions. People are able to get latest news in breaking news section standing on the top. So this is going to be a very good opportunity for people. People who can get some benefit from the system are referred as beneficiaries. There are two types of beneficiaries of my website. These are direct and indirect beneficiaries. Direct beneficiaries are:

- Visitor
- News agency

And indirect beneficiaries are:

- Developer

- Third party API

1.2.3 Goals

Project goal mainly consists of three basic elements. These are performance, time and resource goal. My goal is to achieve all the fundamental functionality of a professional content management system. I want to complete all the functionality within end date. Scheduling is important to complete the work within end time. I am trying to make a proper scheduling of my project. Resource is also an important element of my content management system. My goal is to implement specific amount of resource in my project.

1.3 Stakeholders

Key stakeholders of my project are:

- Visitor
- Admin
- Sponsor
- Developer

Visitor reads the news from website. They are being benefited from website. Visitor plays an important role here. Developer develops website from the scratch. Developer role is the most important here. Admin has all the administrative work of the project. Admin is responsible for all administrative work like adding news, adding a category and many more. Sponsor pays for their advertisement that will be shown in advertising section.

1.4 Proposed System Model

There are many software development models like Waterfall, Agile, V Model and many more. Among these I use V Model for developing my project.

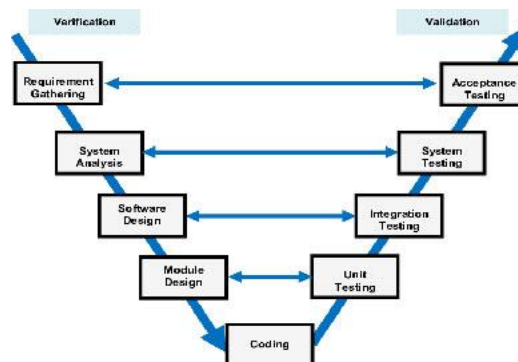


Fig 1: V-Model

1.5 Project Schedule

I have made a schedule for developing my content management system.

1.5.1 Gantt Chart

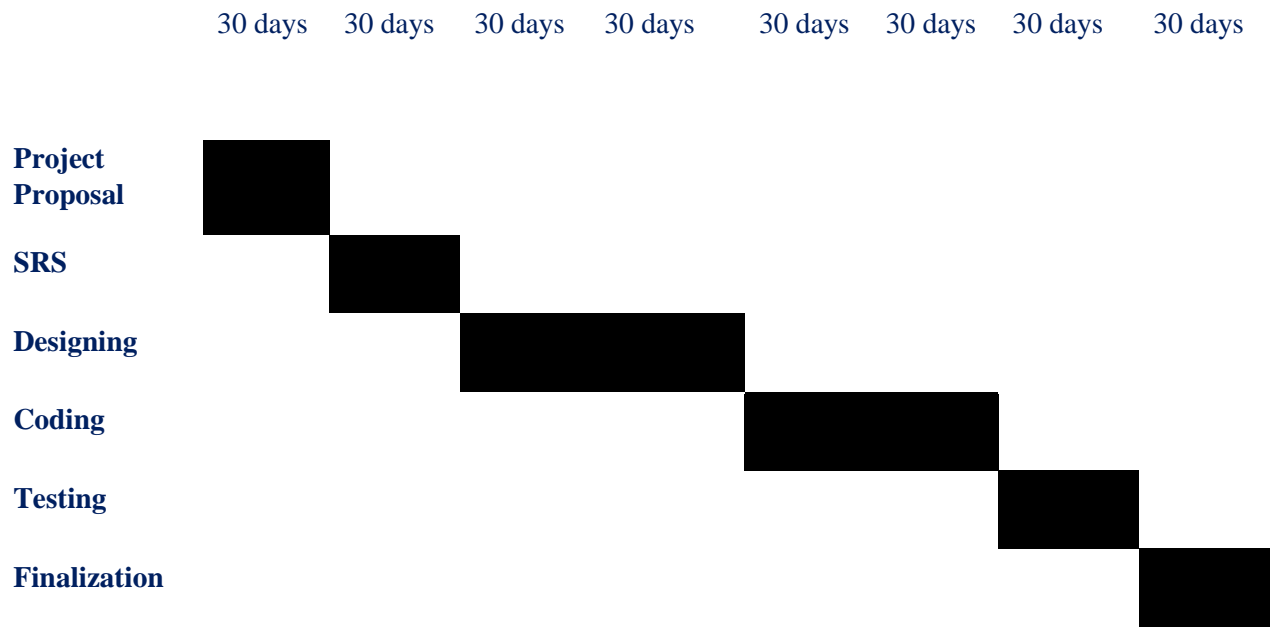


Fig 2: Gantt Chart

1.5.2 Release Plan

Release name	Date
1 st release	2 December,2019
2 nd release	10 January,2020

Table 1: Release Plan

Chapter 2: Software Requirement Specification

There are two types of requirements in my content management system. These are functional requirements and non-functional requirements.

2.1 Functional Requirements

Functional Requirement No.	Functional Requirement Descriptions
FR1	Visitor should be able to search news
FR2	Visitor should be able to choose any category
FR3	Visitors are able to read full news
FR4	Social plugins are used to share/add comment to a news
FR5	Admin have to register first and then login using login credentials
FR6	Admin should be able to add/edit/delete a category
FR7	Admin should be able to add a news

Table 2: Functional Requirements

2.2 Data Requirement

Content is the most important property of a content management system. Unique content is needed.

2.3 Performance Requirement

Performance requirement is the requirement that is needed to speed up the performance of a website.

2.3.1 Speed and Latency Requirement

The website load time should be from 2 to 5 seconds.

2.3.2 Precision and Accuracy Requirement

The website structure should be executed properly. At first the structure should be loaded and then images.

2.4 Dependability Requirements

2.4.1 Reliability Requirement

Contents should be unique. Admin have to test content before uploading.

2.5 Maintainability and Responsibility Requirements

2.5.1 Maintenance Requirements

Website should be uploaded to web server with proper rules.

2.5.2 Supportability Requirements

Web server should be authentic where the website is going to be uploaded.

2.6 Security Requirements

Security requirements are one of the most important requirements for my content management system.

2.6.1 Access Requirements

There is no registration system for visitor. This is why there is no security issue for visitor.

Admin have to be registered to use the system. System verifies user email when register. System also authenticates user email and password when login.

2.6.2 Integrity Requirements

No fields can be left empty when register.

Chapter 3: System Analysis and Design

3.1 Use Case Diagram

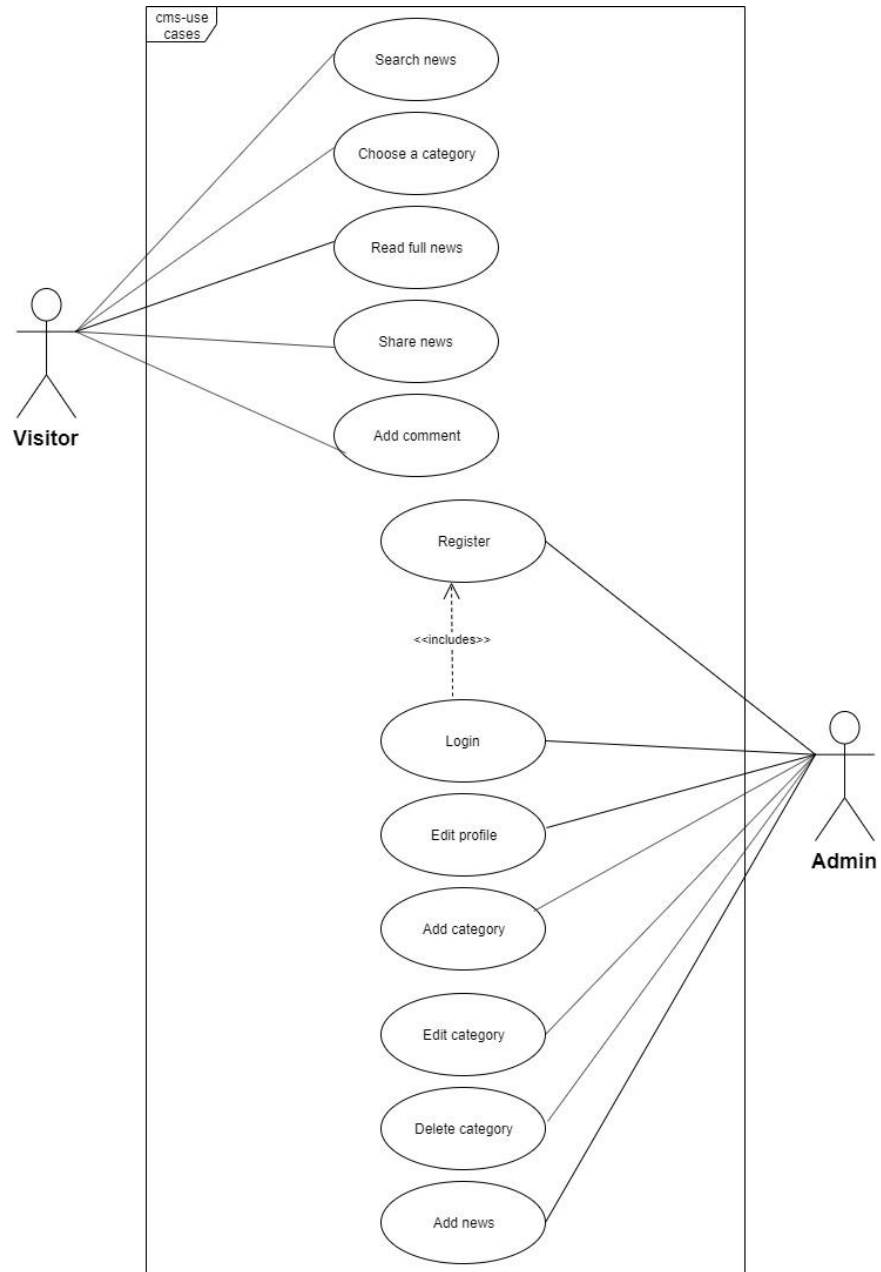


Fig 3 Use Case Diagram

Name	Search news	
Description	Each of the news should have a tag when the news is published. When visitors type a keyword and press enter, system matches that keyword with the tags of that news. If any similarity is found, a result page will be shown.	
Actor	Visitor	
Triggers	Enter button of keyboard	
Preconditions	No	Description
	01	Visitor has to type a keyword in the search box.
	02	Visitor has to avoid special characters and spaces when typing a keyword.
Post conditions	No	Description
	01	Search post page is shown.
	02	Visitors are able to read the full news by clicking the news title.
Successful scenario	Steps	Description
	01	Visitor types a keyword in the search box.
	02	Visitor presses enter in the keyboard.
	03	Search post page is shown.
Failure scenario	Invalid keyword is typed by visitor and no result is found.	

Name	Choose a category	
Description	When visitor visits website, they see the home page of website. A specific category page includes the news of that category. Visitor can choose any category and gets the news of that category.	
Actors	Visitor	
Triggers	Clicking over a category	
Precondition	All the categories are shown as a navigation bar.	
Post conditions	No	Description
	01	Category post page is shown.
	02	Visitors are able to read the news title in the category post page.
Successful scenario	Step	Description
	01	Visitor click over any category.
	02	Category posts page is shown.
	03	Each of the news contains an image and news title.
Failure scenario	There is no news on that category.	

Name	Read full news	
Description	When visitors visit the website they only see image and title of news. So, there is a need of full news option. If a visitor clicks the title of news, single news page will appear.	
Actors	Visitor	
Triggers	Clicking over the news title	
Precondition	News title appears with news image in every news section.	
Post conditions	No	Description
	01	Single news page appears and visitor is able to read the full news.
	02	News tags also appear below the news.
Successful scenario	Step	Description
	01	Visitor clicks the news title right below the news image
	02	Visitor read the full news and uses the social plugin to share and comment.
Failure scenario	Step	Description
	01	Single news page is not redirected after clicking news title.
	02	Full news doesn't appear properly.

Name	Share news	
Description	There is a social sharing inline bar below full news content. Visitors can share the news with their preferred social media among Facebook, Twitter and others.	
Actors	Visitor	
Triggers	Post button	
Preconditions	No	Description
	01	Visitor is in the single post page.
	02	Inline share bar is appeared right below full news content.
Post conditions	No	Description
	01	When visitor clicks share button, there will open a share window.
	02	The news is posted in the preferred social media.
Successful scenario	Step	Description
	01	Choose any inline bar and over that.
	02	Share window is opened and click open.
	03	News is shared over the social media.
Failure scenario	Step	Description
	01	Inline share button doesn't appear.
	02	News is not posted in ant social media.

Name	Add Comment	
Description	Visitor gets full news when click news title right blow the news image. A comment box appears in the single news page right below the related news section.	
Actors	Visitor	
Triggers	Typing in the comment box	
Precondition	Visitors are in the single post page.	
Post conditions	No	Description
	01	Comment is added right below input box.
	02	Comments are organized in ascending order.
Successful scenario	Step	Description
	01	Visitor reads full news and goes right below related news.
	02	Type a comment in the comment box.
	03	Post the comment and comment is added.
Failure scenario	Step	Description
	01	Visitor can't go in the single page.
	02	Comment box doesn't appear.

Name	Register	
Description	Registration is mandatory for the admin who will manage contents. If there is no admin, register page will appear.	
Actors	Admin	
Triggers	Register button	
Preconditions	No	Description
	01	There is no admin in the database.
	02	The entire input fields are required.
Post conditions	Step	Description
	01	New user as an admin is stored in the database.
	02	Login page appears after successfully registered.
Successful scenario	Step	Description
	01	Register page appears as index page.
	02	Type fname, lname, email and password in the input field.
	03	User click register button and get registered.
Failure scenario	Step	Description
	01	There is already an admin in the database.
	02	Any field is left empty.
	03	Invalid email provided and registration is failed.

Name	Login	
Description	If registration is completed successfully, login page will appear. Admin provide login credentials to login to the admin panel.	
Actors	Admin	
Triggers	Login button	
Preconditions	No	Description
	01	Admin have to be registered first.
	02	Login credentials have to be matched.
Post conditions	No	Description
	01	An admin panel appears in front of admin.
	02	A session is started when admin is logged in.
Successful scenario	Step	Description
	01	User is registered and gets login page.
	02	Types email and password in the input box as login credentials and clicks login button.
	03	Admin is logged in.
Failure scenario	Step	Description
	01	User doesn't get login page.
	02	Login credentials don't match with admin's email and password.
	03	User can't go to the admin panel.

Name	Add category	
Description	Admin can add a category. If a category is added, that will be added in the navigation bar.	
Actors	Admin	
Triggers	Add category button.	
Precondition	Admin is in the add category page.	
Post conditions	No	Description
	01	A new category is added in the category page.
	02	And edit and delete button is also appear.
Successful scenario	Step	Description
	01	Admin goes to the add category page.
	02	Type a category in the input field.
	03	Click add category button and category is added.
	04	Admin is redirected to the categories page.
Failure scenario	Step	Description
	01	Add category page doesn't appear.
	02	No category is typed in the input field.
	03	Clicks add category button but that doesn't work.
	04	Admin is not redirected to category page.

Name	Edit profile	
Description	Admin panel is provided to do administrative work. There is a lot of responsibility for an admin. Admin can edit profile using profile page.	
Actors	Admin	
Triggers	Save button	
Preconditions	No	Description
	01	Admin is logged in.
	02	Admin is in the profile page.
Post conditions	No	Description
	01	Profile information is updated and stored in database.
	02	Updated information is shown.
Successful scenario	Step	Description
	01	Admin goes to the profile page.
	02	Admin edits in the input fields and clicks save.
	03	Profile is updated and shown.
Failure scenario	Step	Description
	01	Invalid data provided by admin.
	02	Profile is not updated.

Name	Edit category.	
Description	Admin can edit any category. Also admin can change the title of a category.	
Actors	Admin	
Triggers	Edit button	
Preconditions	No	Description
	01	Admin is in the category page.
	02	Admin is redirected to the category page.
Post conditions	No	Description
	01	Category title is updated with new name.
	02	Admin is redirected to category page.
Successful scenario	Step	Description
	01	Admin is in the category page and click edit button of the respected category.
	02	Clicks update category button and category is updated.
Failure scenario	Step	Description
	01	Edit button doesn't response.
	02	Update category button doesn't appear and fails to edit.

Name	Delete category.	
Description	Admin can delete a category. Delete button is at the right side of the categories.	
Actors	Admin.	
Triggers	Delete button.	
Precondition	Admin is in the category page.	
Post conditions	No	Description
	01	Category is deleted permanently from database.
	02	Category is also deleted from category page.
Successful scenario	Step	Description
	01	Category is shown with delete button of each category.
	02	Clicks delete button and category is deleted.
Failure scenario	Step	Description
	01	Categories are not shown and also delete button.
	02	Delete button doesn't work and category is not deleted.

Name	Add news	
Description	The project is mainly a content management system. Admin can add news and this news and this news will be shown in website.	
Actors	Admin	
Triggers	Add news button	
Preconditions	No	Description
	01	Admin is in the add news page.
	02	The image of news is previewed.
Post conditions	No	Description
	01	News is published in the website.
	02	News is shown in the respected category page.
Successful scenario	Step	Description
	01	Admin fills up input fields and clicks add news button.
	02	A popup message appears and news is added.
Failure scenario	Step	Description
	01	Wrong input and add news button doesn't work.
	02	Admin is not able to add news.

3.2 Activity Diagram

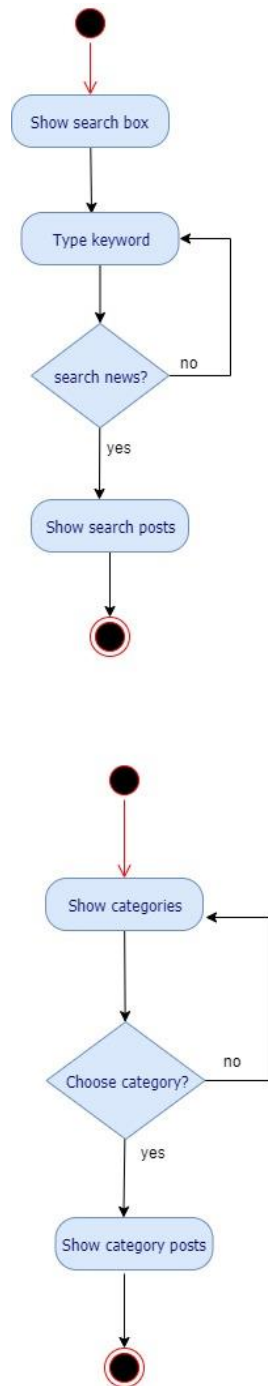


Fig 4: AD for Search News and Choose a Category

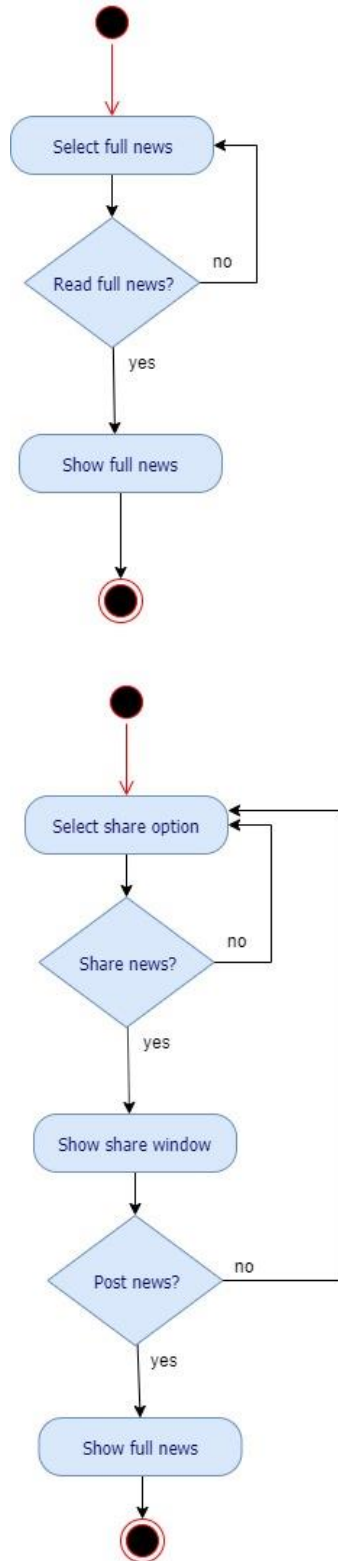


Fig 5: AD for Read Full News and Share News

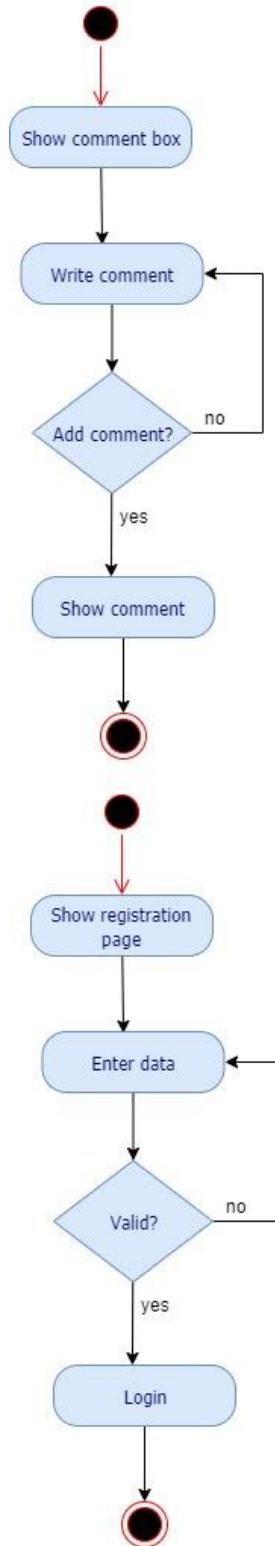


Fig 6: AD for Add Comment and Register

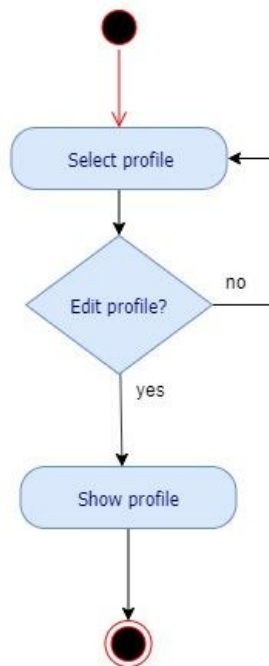
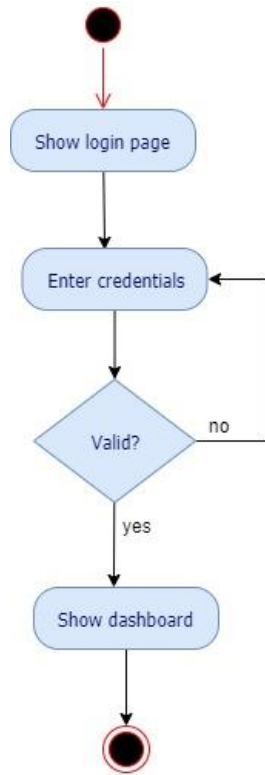


Fig 7: AD for Login and Edit Profile

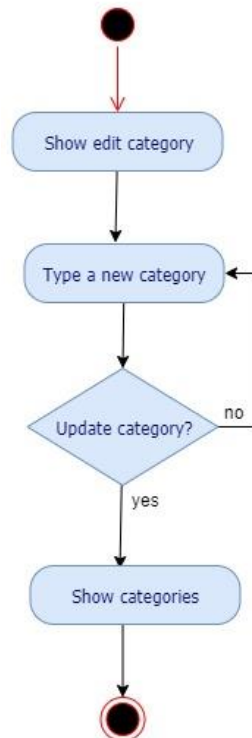
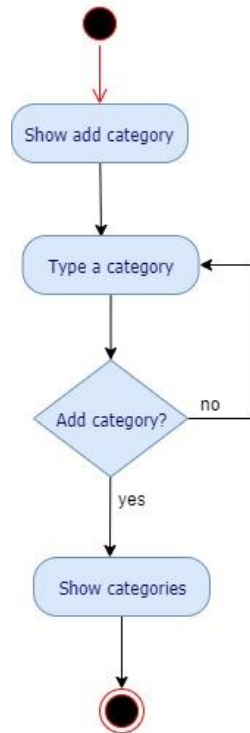


Fig 8: AD for Add Category and Edit Category

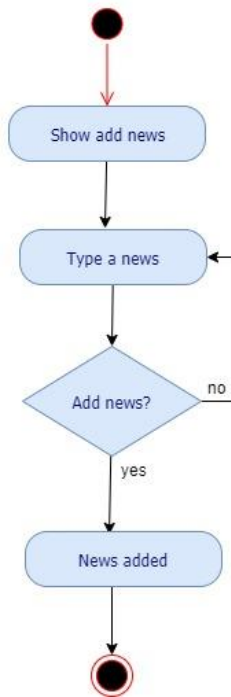
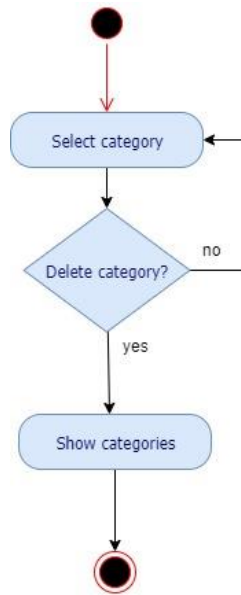


Fig 9: AD for Delete Category and Add News

3.4 System Sequence Diagram

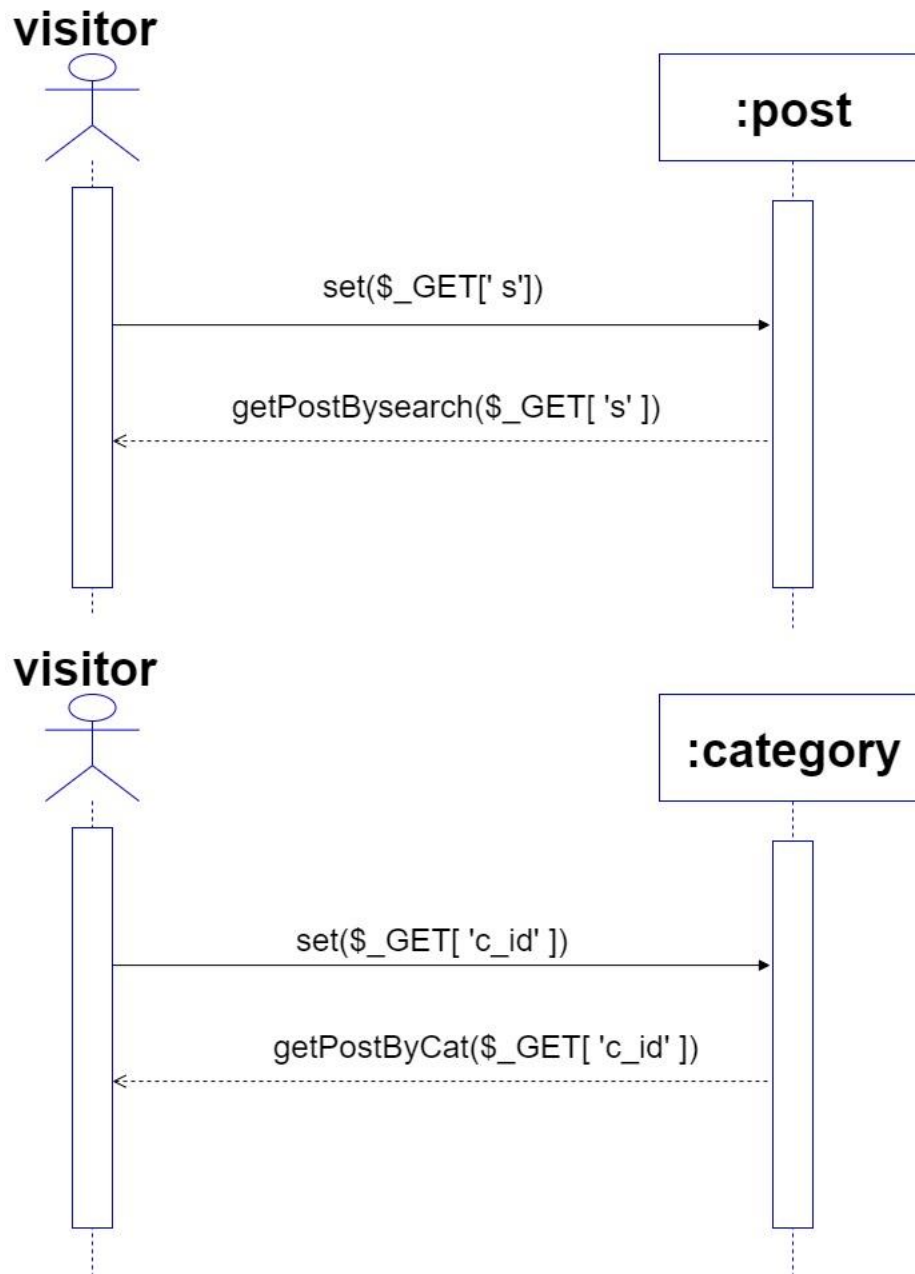


Fig 10: SD for Search News and Choose a Category

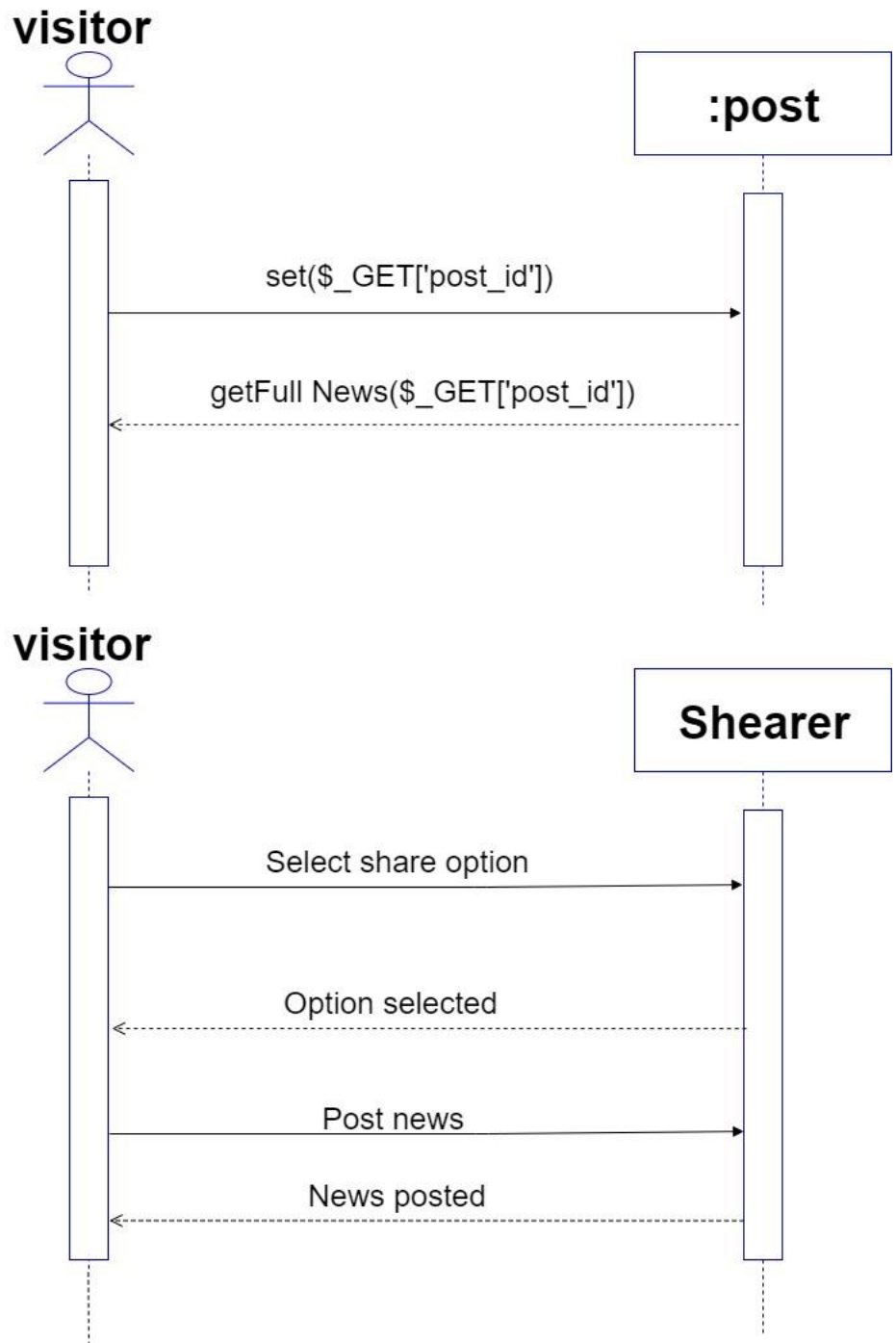


Fig 11: SD for Read Full News and Share News

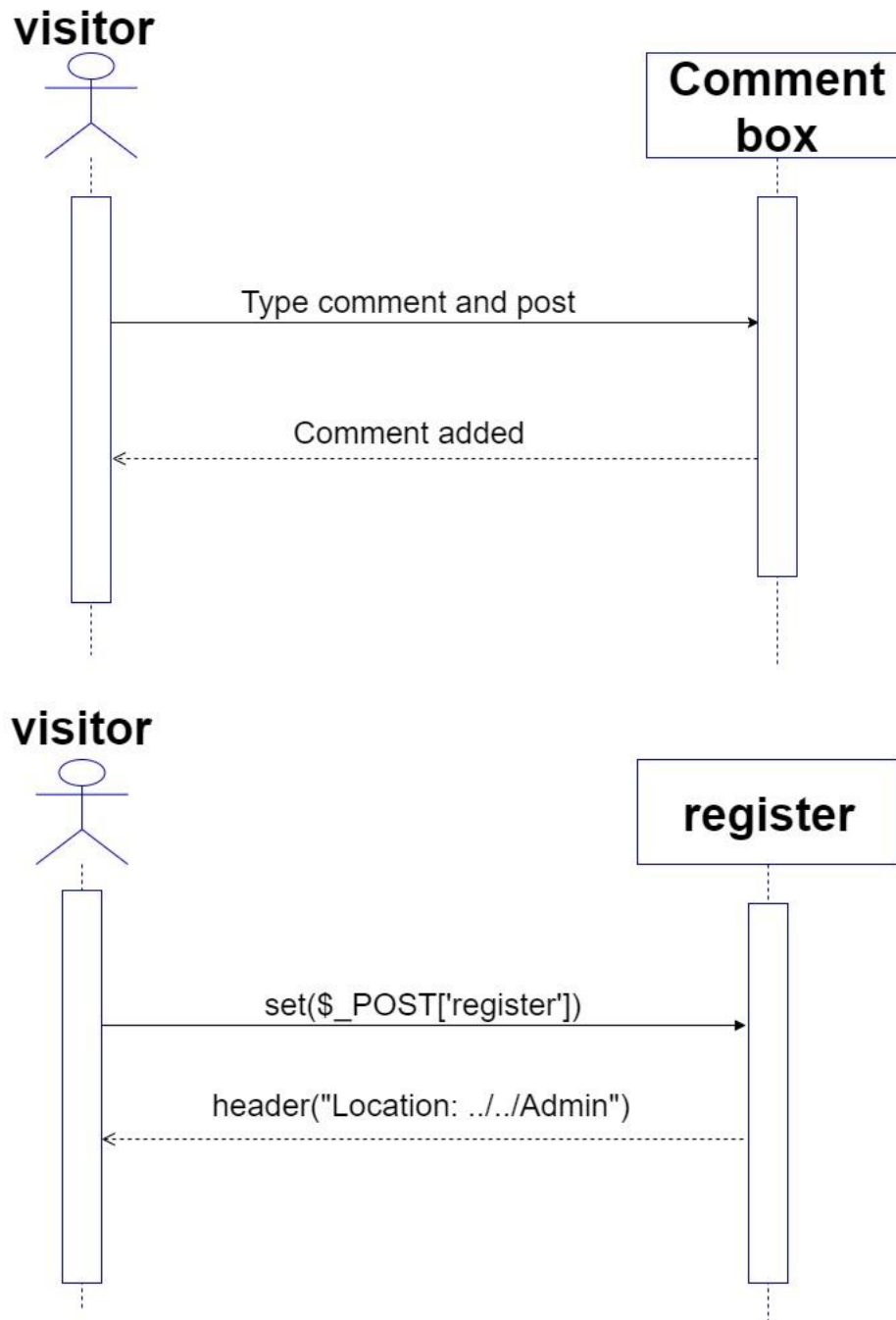


Fig 12: SD for Add Comment and Register

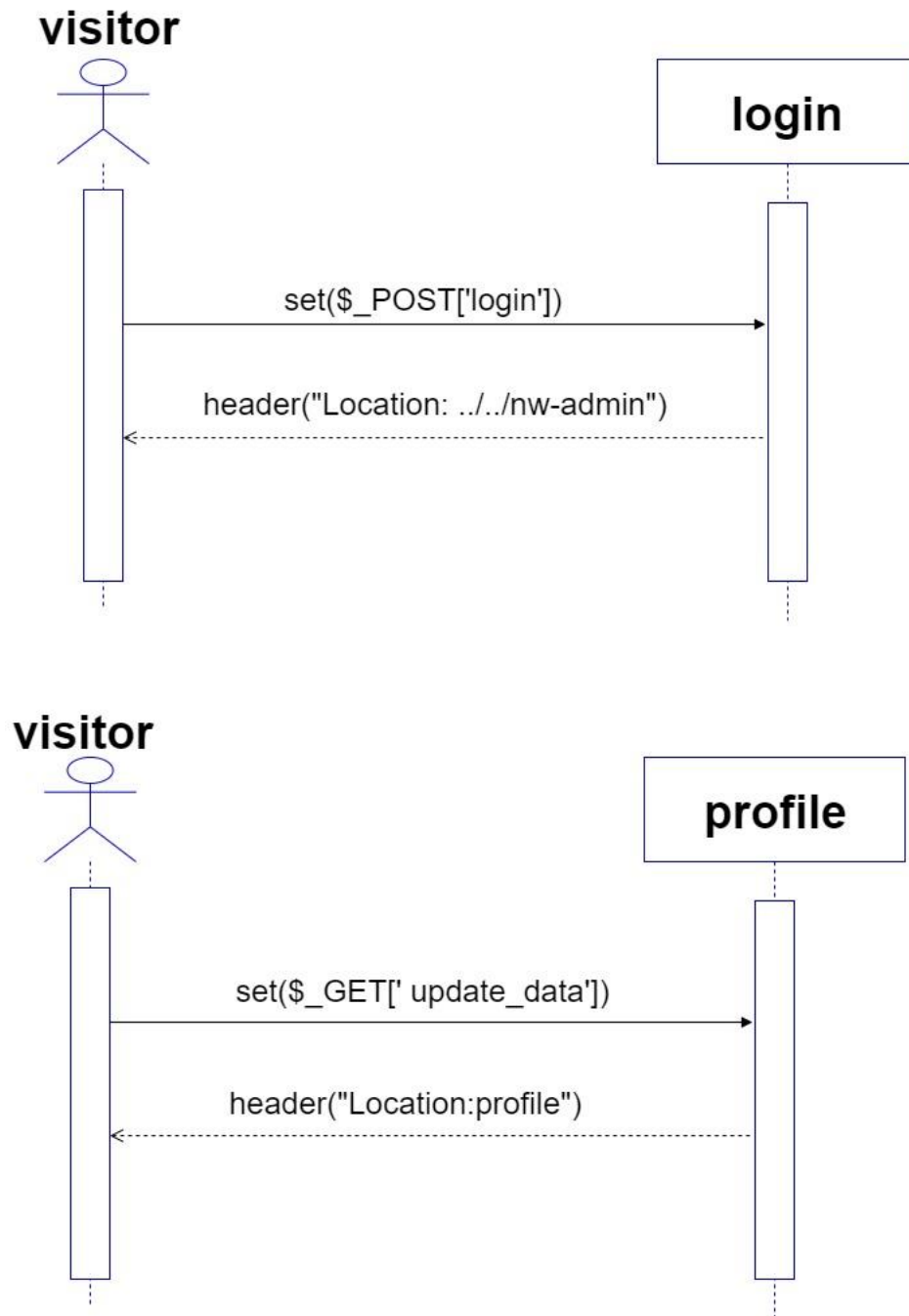


Fig 13: SD for Login and Edit Profile

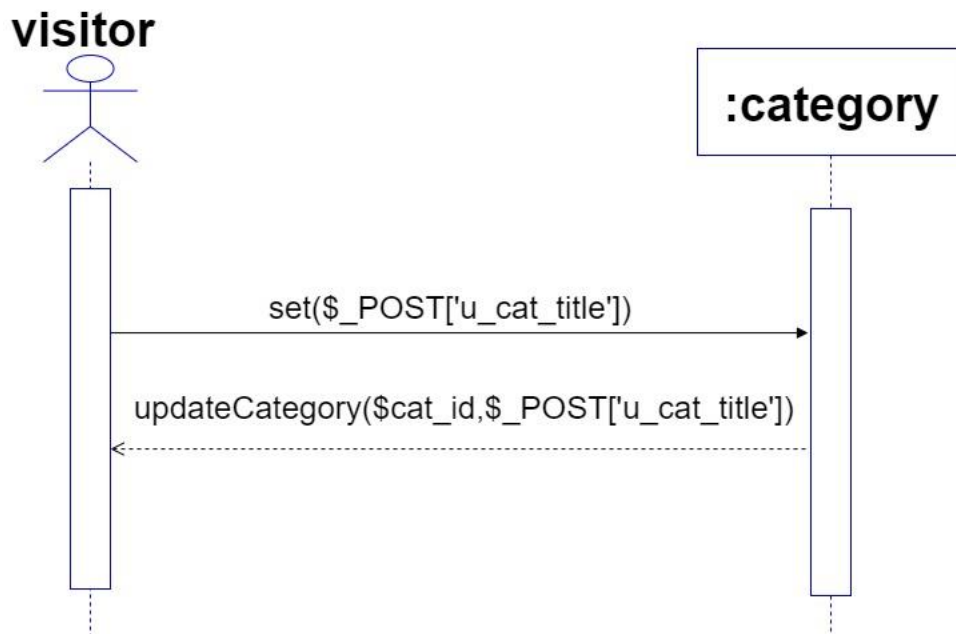
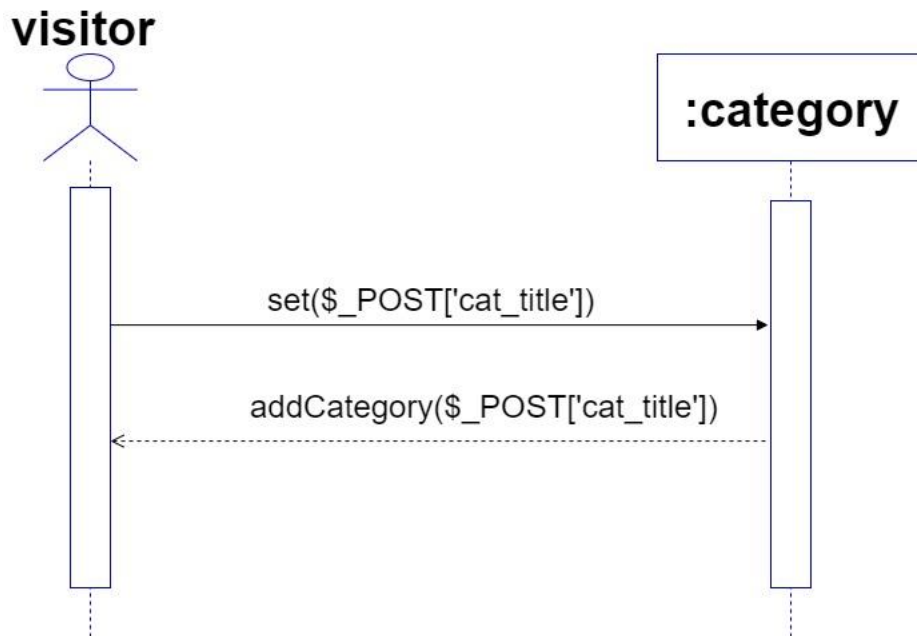


Fig 14: SD for Add Category and Edit Category

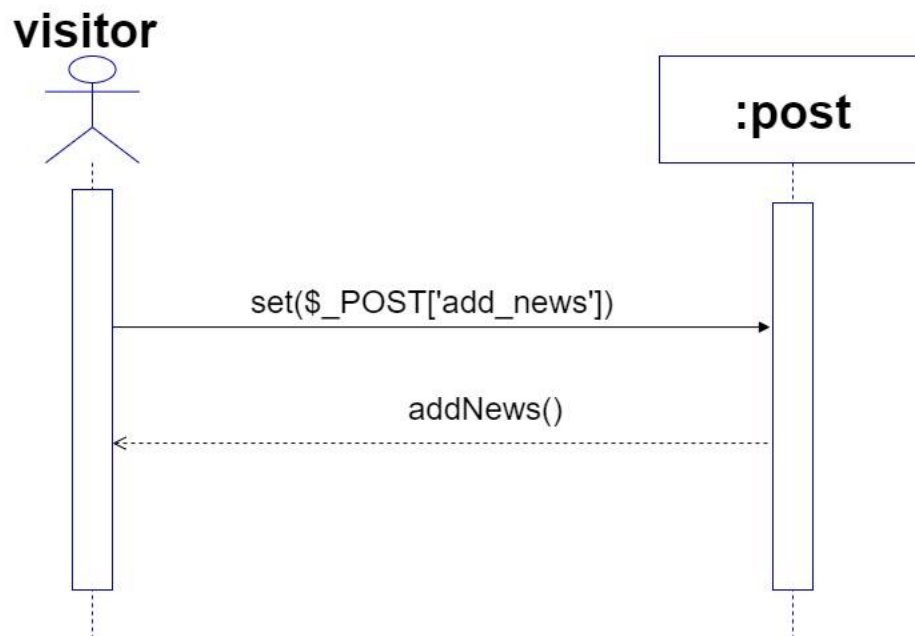
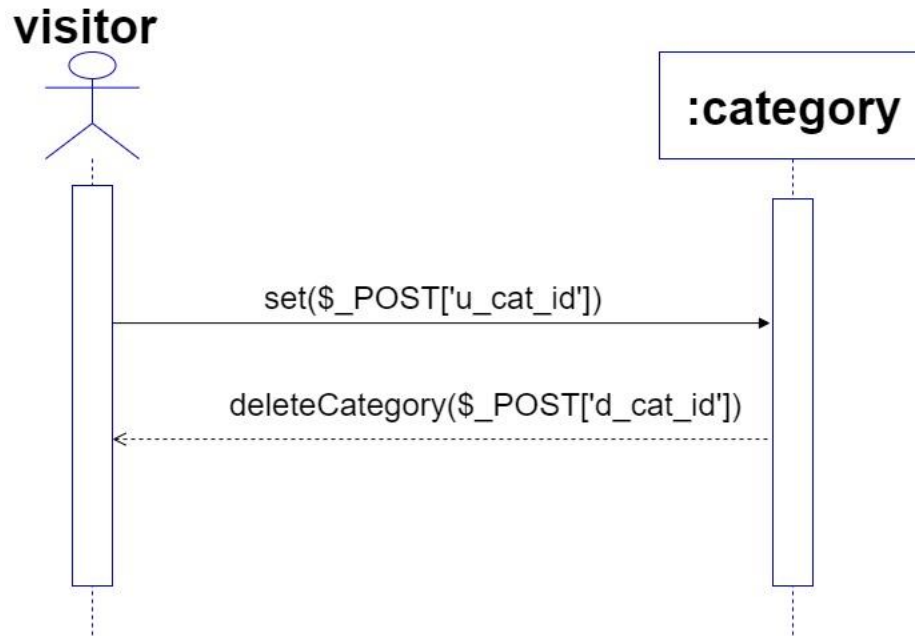


Fig 15: SD for Delete Category and Add News

Chapter 4: System Design Specification

4.1 Class Diagram

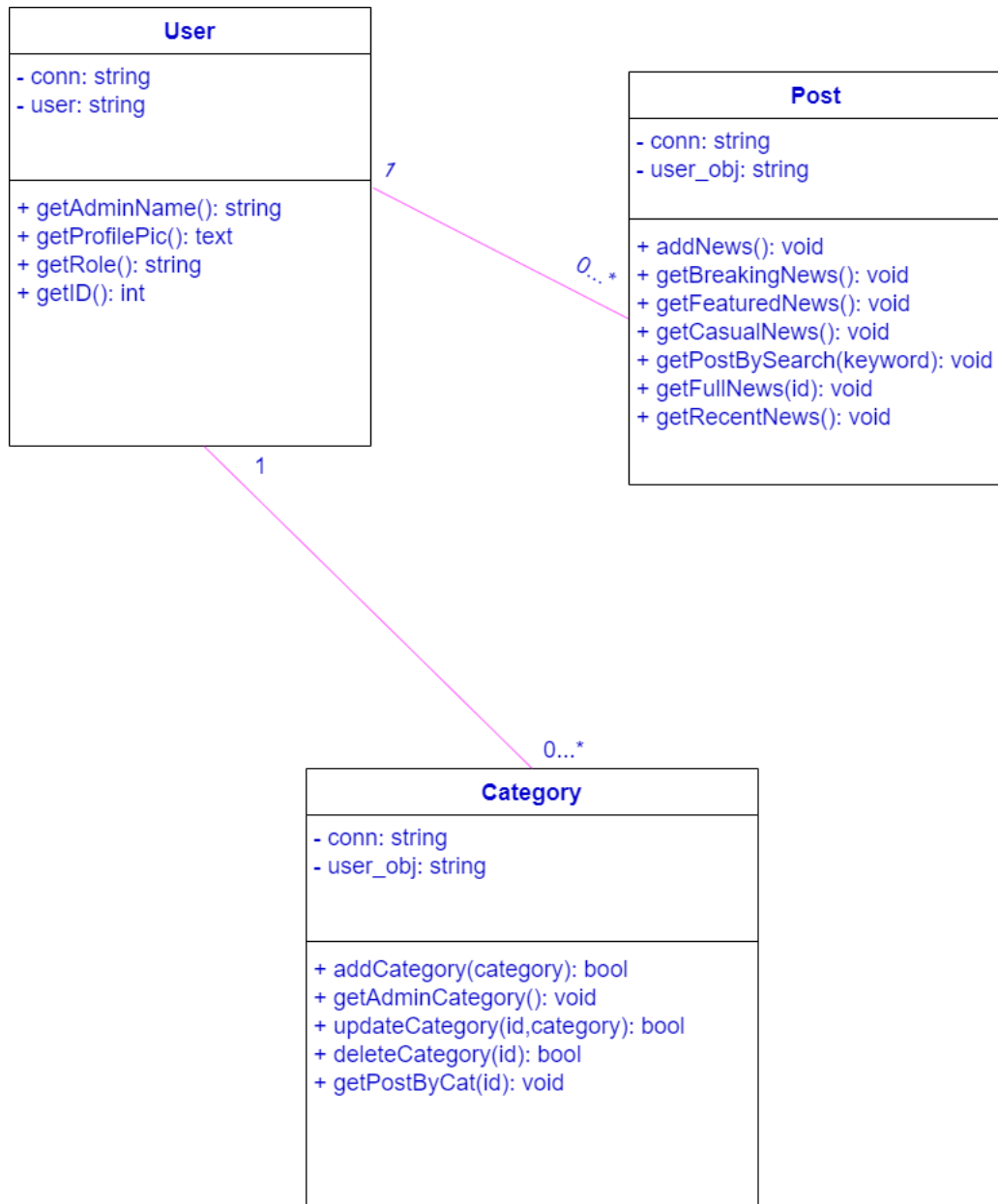


Fig 16: Class Diagram

4.2 Database Design Diagram

user	
PK	<u>id</u>
	username firstname lastname email password profile_pic role num_posts

post	
PK	<u>id</u>
	title content added_by post_category post_cat_id post_image date_added tags status type num_views timestamped

category	
PK	<u>id</u>
	cat_title

Fig 17: Database Design Diagram

4.3 Development Tool and Technology

4.3.1 User Interface Technology

4.3.1.1 HTML

Html is used as a markup language to design this content management system.

4.3.1.2 SASS

Sass is used as a style sheet to design this content management system.

4.3.1.3 Font Awesome

Font awesome is also used in my content management system.

4.3.2 Implementation Tools & Platforms

4.3.2.1 PHP 7

I have used the latest version of PHP as a backend programming language to develop my content management system.

4.3.2.2 MySQL 8.0

I have used the latest version of MySQL as a database management system to develop my content management system.

4.3.2.3 JavaScript 9

I have used the latest version of JavaScript as a scripting language to develop my content management system.

4.3.2.4 XAMPP 7.3.11

I have used the latest version of XAMPP as a local web server to develop my content management system.

Chapter 5: System Testing

5.1 Testing Features

5.1.1 Features to Be Tested

- Registration
- Login
- Adding a Category
- Searching news

5.1.2 Features not to Be Tested

- Editing a category
- Deleting a category
- Choose category
- Share news
- Adding a comment

5.2 Testing Strategies

5.2.1 Test Approach

I use White Box Testing method to test the feature of my content management System.

5.2.2 Pass/Fail Criteria

- Test cases to test the features that have to be tested
- Some input form in my CMS
- Search results
- Shared Content over the Internet
- Fields that is going to be updated

- Fields that is going to be deleted

5.2.3 Suspension and Resumption

Suspension refers when all or a part of testing activities is suspended. And resumption refers when testing can be resumed after suspension.

Suspension Criteria:

- Hardware/Software I not available at the time mentioned in project schedule.
- Assign test resources are unavailable when needed.

Resumption criteria:

If the mentioned causes are fixed, the project will be resumed. This is all about fixing bugs.

5.3 Testing Environment

- System and website.
- Test data that has to be tested.
- Database server to maintain data.
- Front end running environment.
- Operating system to operate computer.
- Browser to browse internet.
- Hardware that includes server operating system.
- Network under the area.
- Documentations like user manual, referenced document, installation guides etc.

5.4 Test Cases

Admin Registration

Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/Fail
TR01	User registration with valid data.	<ol style="list-style-type: none"> 1. Enter firstname. 2. Enter lastname. 3. Enter email. 4. Enter password. 5. Click register button. 	Firstname= Tareq. Lastname=Munawar. Email=tareqmunawar@outlook.com Password= 123456.	User should be registered.	As expected.	Pass
TR01	User registration with invalid data	<ol style="list-style-type: none"> 1. Enter firstname. 2. Enter lastname. 3. Enter email. 4. Enter password. 5. Click register button. 	Firstname= Tareq. Lastname=Munawar. Email=tareqmunawar@outlook. Password= 123456.	User shouldn't be registered.	As expected.	Pass

Table 3: Test Case for Admin Registration

Admin Login

Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/Fail
TL01	Check login with valid data	1. Enter Email. 2. Enter password. 3. Click login.	Email=tareqmunawar@outlook.com. Password=123456.	Admin should login	As expected	Pass
TL02	Check login with invalid data.	1. Enter Email. 2. Enter password. 3. Click login.	Email=tareqmunawar77@gmail.com. Password=abcd1234	Admin should not login	As expected	Pass

Table 4: Test Case for Admin Login

Add Category

Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/Fail
TAC01	Adding a category with non-empty data.	1. Type a category name. 2. Click add category button.	Category name=Health.	Category should be added.	As expected.	Pass
TAC02	Adding a category with empty data.	1. Input field is left empty. 2. Click add category.	Category name=	Category should not be added.	Not expected.	Fail

Table 5: Test Case for Adding a Category

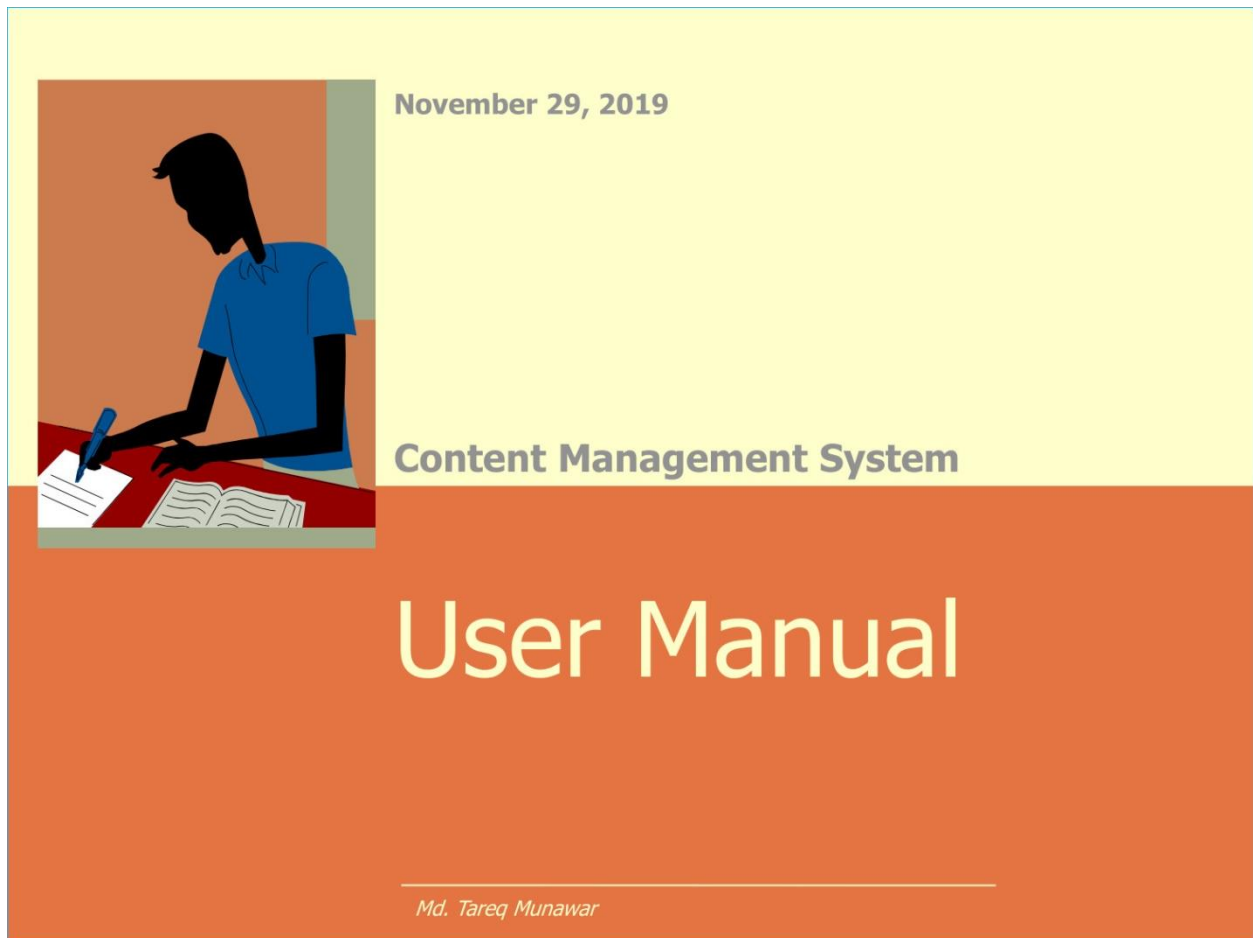
Searching news

Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/Fail
TS01	Searching news using a keyword.	1. Type a keyword in the search box. 2. Press enter in keyboard.	Keyword= bitcoin	Search posts page should appear	As expected	Pass
TS02	Searching news using a blank data.	1. Search box left blank. 2. Press enter in keyboard.	Keyword=	Search posts page should not appear	As expected	Pass

Table 6: Test Case for Searching News

Chapter 6: User Manual

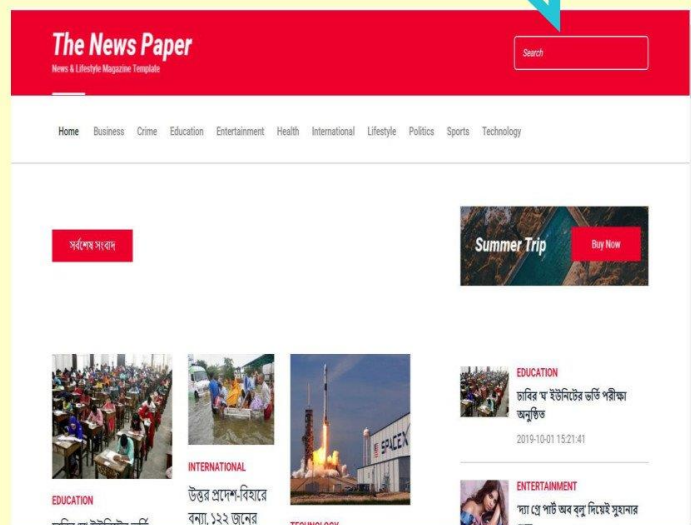
6.1 Manual for Visitor



For Searching News:

Use a keyword in the search box to get a search result

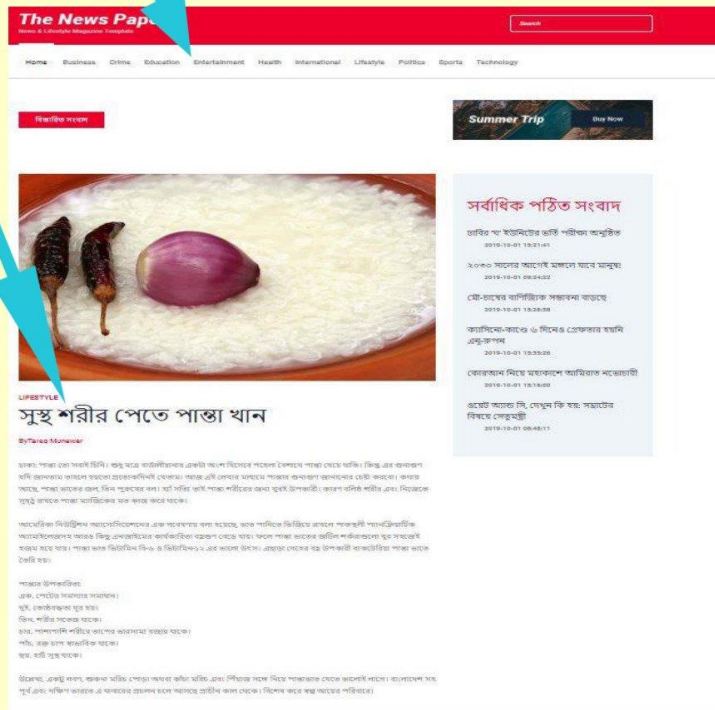
Keyword



Choose category

News Title

Change category by clicking over it
And read the full news by clicking over it's title

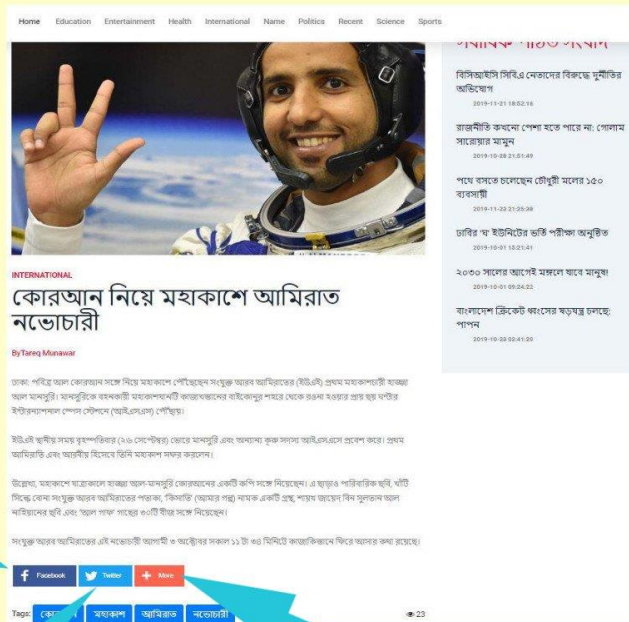


Visitor can share the news by using different social media

Facebook Share

Twitter share

More share option





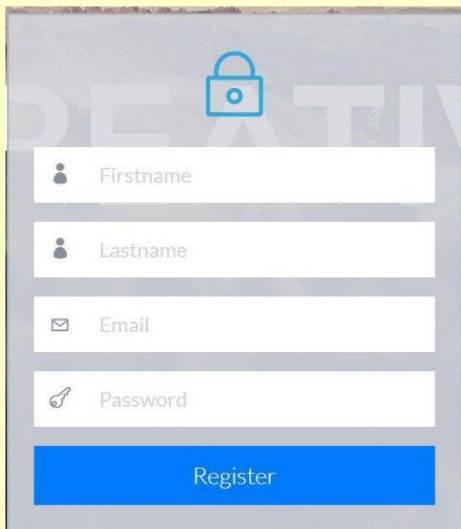
Also visitor can comment to a news by using Facebook comment box

Add a comment

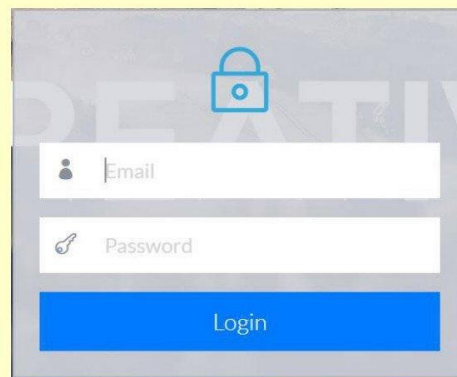
6.2 Manual for Admin

Registration and Login Page:

Admin have to register first to login

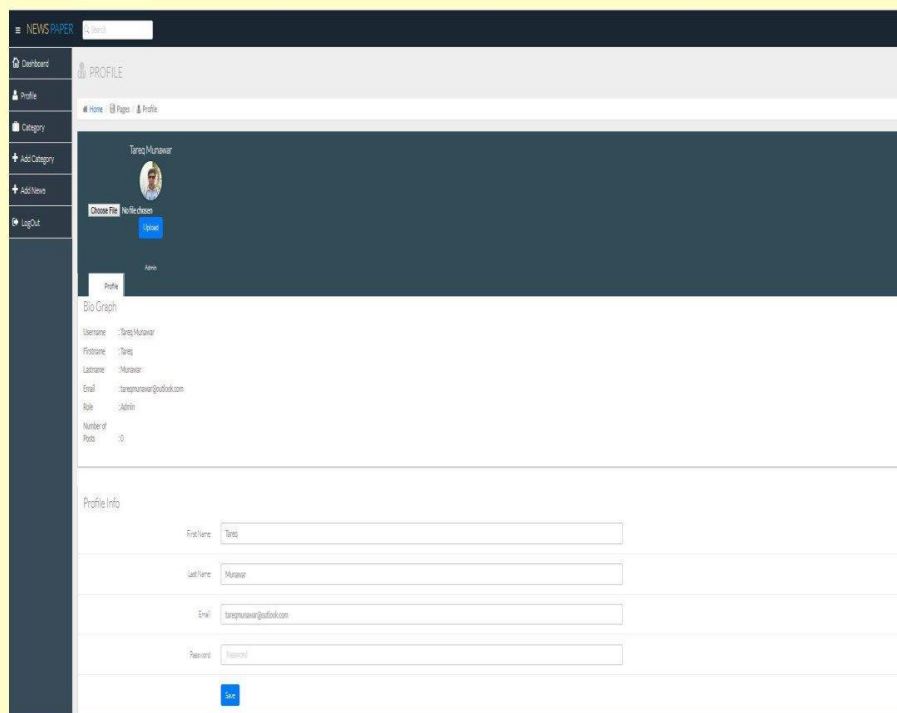


The registration form is displayed on a mobile device screen. It features a blue padlock icon at the top center. Below the icon are four input fields: 'Firstname', 'Lastname', 'Email', and 'Password'. Each field has a corresponding icon (person, person, envelope, and key) to its left. At the bottom of the form is a blue button labeled 'Register'.

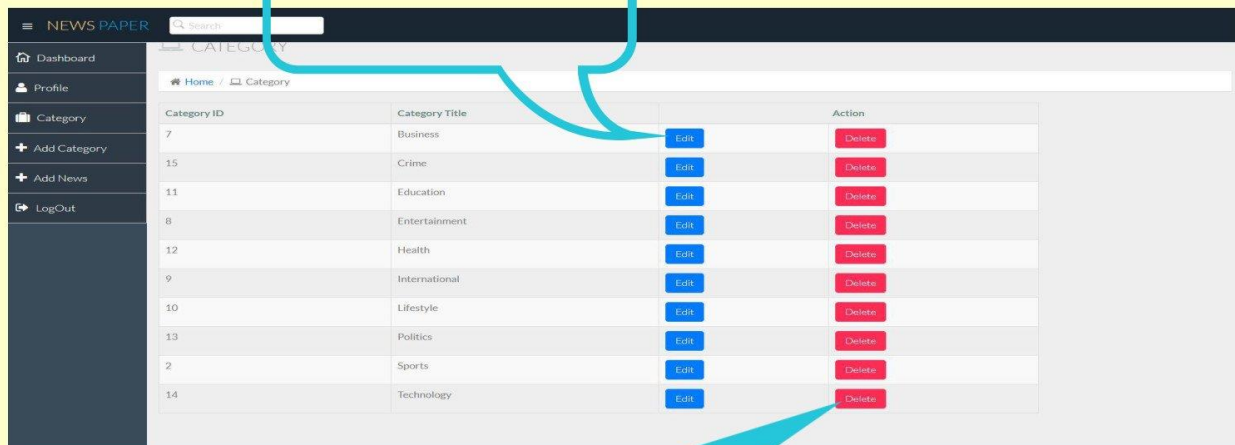


The login form is displayed on a mobile device screen. It features a blue padlock icon at the top center. Below the icon are two input fields: 'Email' and 'Password'. Each field has a corresponding icon (person and key) to its left. At the bottom of the form is a blue button labeled 'Login'.

This page contains admin information. Admin also can update his/her information by using this page



Edit a category



The screenshot shows a dashboard for a news paper with a sidebar menu and a main content area. The sidebar menu includes: Dashboard, Profile, Category, Add Category, Add News, and LogOut. The main content area displays a table with the following data:

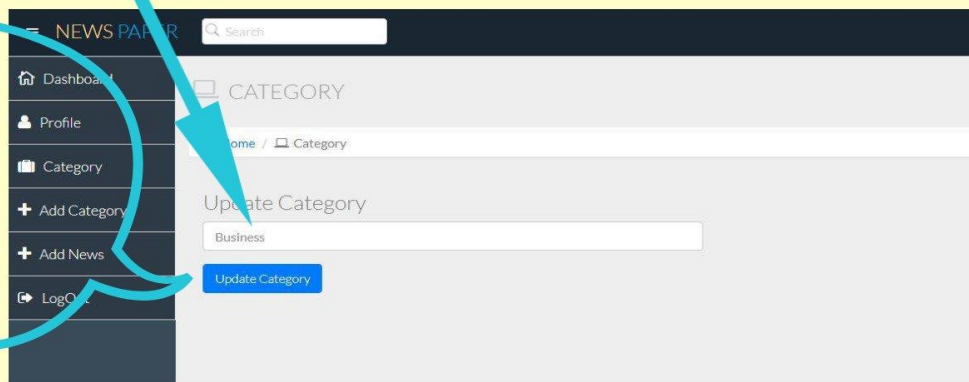
Category ID	Category Title	Action
7	Business	Edit Delete
15	Crime	Edit Delete
11	Education	Edit Delete
8	Entertainment	Edit Delete
12	Health	Edit Delete
9	International	Edit Delete
10	Lifestyle	Edit Delete
13	Politics	Edit Delete
2	Sports	Edit Delete
14	Technology	Edit Delete

Delete a category

When admin edit a category, this field appears. Admin have to type a new category name there.

A new category

Click Update



The screenshot displays a web application interface for a news site. On the left is a dark sidebar with navigation links: Dashboard, Profile, Category, Add Category, Add News, and LogOut. The main content area is titled 'POST' and contains a breadcrumb 'Home / Post'. Below this is the 'Add News' form, which includes the following fields: 'News Title' (with a 150-character limit), 'News Content', 'Category' (a dropdown menu currently showing 'Business'), 'Status' (a dropdown menu currently showing 'Published'), 'Type of News' (a dropdown menu currently showing 'Breaking News'), 'Tags' (a text input with the instruction 'News Tags (separate by a comma)'), and an 'Image' section with a 'Choose File' button and the text 'No file chosen'. At the bottom of the form is a blue 'Add News' button.

Finally
admin
would add a
news,by
adding
values in the
input fields.

Chapter 7

Project Summary

7.1 GitHub Link

<https://github.com/Tareq1586/content-management-system>

7.2 Limitations

There are some limitations in my content management system. There is no edit option for content.

7.3 Future Scope

Edit option for news. There is no edit option for news in my system. So this is a scope for me. Also there is no delete option for news in my system. Adding a delete option is also a scope.