



United International University

Department of Computer Science and Engineering

*Project Report:
Database Management System Laboratory
Summer - 2017*

*Project Name:
Online News Portal*

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1. Project Description: Online news portal is a complete news portal. Here admin can publish news of anything. In this online portal we can post news with an image, & the image can describe the news to the reader very easily. On the other hand this kind of news portal can be used to publish news with images of any company, educational institute. In this portal there might be more than one writer to write news & posts. If anyone who are enrolled as a editor can write post. But that post will not become visible to the reader. To make it available for all of us admin must have to approve this news. Here one news can have more than one category. In this portal user can comment on specific news.

2. Project Objectives

- To deliver news
- News with an image can easily make it visible
- Easy way to search from lots of news.
- Many journalist/ people can write news.
- Approval of news can secure awful news to publish
- Maintenance is very easy

3. Project Features:

User Access:

1. View news
2. Comment on news
3. Signup/Sign in

Admin Access:

1. Add news
2. Edit News
3. Delete news
4. Approve or reject news
5. Add/ Delete user
6. Add page

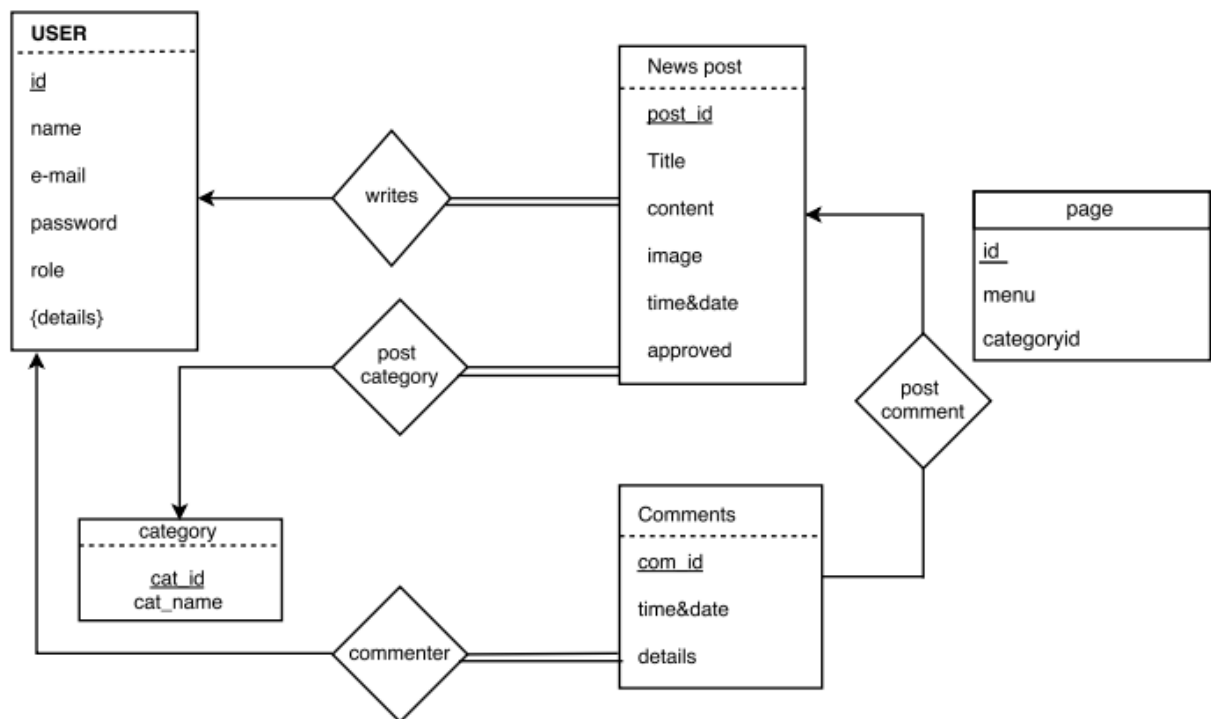
7. Add Category
8. Edit/ Delete Category
9. Comment

Editor Access:

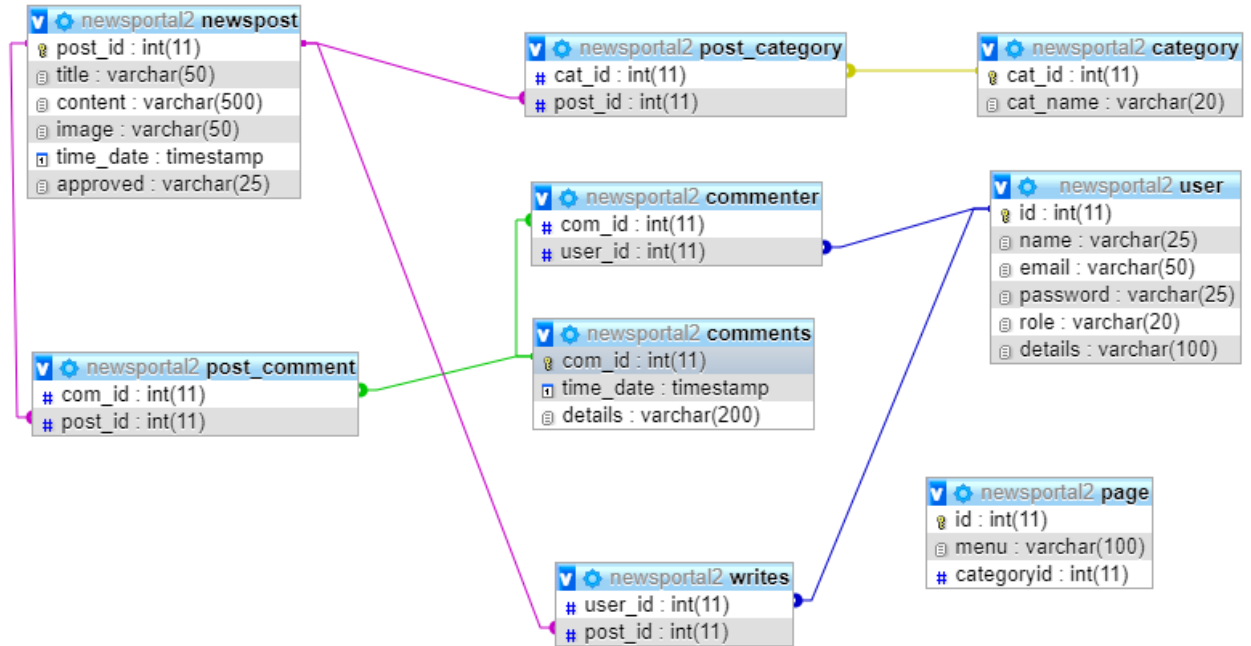
1. News Add
2. Edit news
3. Comment

4. Project ER Diagram

ER Diagram of Online News Portal



5. Project Schema Diagram



6. Source of Database:

```
create table user(  
    id int,  
    name varchar(25),  
    email varchar(25),  
    password varchar(25),  
    role varchar(20),  
    details varchar(100),  
    primary key (id)  
)
```

```
creat table newspost(  
    post_id int,  
    title varchar(50),  
    content varchar(500),  
    image varchar(50),  
    time_date timestamp,  
    approved boolean,  
    primary key(post_id)  
)
```

```
CREATE TABLE writes  
(  
    user_id int,  
    post_id int,  
    FOREIGN KEY (user_id) REFERENCES user (id),  
    FOREIGN KEY (post_id) REFERENCES newspost (post_id)  
)
```

```
create table comments  
(  
    com_id int,  
    time_date timestamp,  
    details varchar(200),  
    PRIMARY KEY (com_id)  
)
```

```
create table page  
(  
    id int,  
    menu varchar(200),  
    categoryid int,  
    PRIMARY KEY (id)  
)
```

```
create table commenter
(
    com_id int,
    user_id int,
    FOREIGN KEY (com_id) REFERENCES comments(com_id),
    FOREIGN KEY (user_id) REFERENCES user(id)
)
```

```
create table post_comment
(
    com_id int,
    post_id int,
    FOREIGN KEY (com_id) REFERENCES comments(com_id),
    FOREIGN KEY (post_id) REFERENCES newspost(post_id)
)
```

```
create TABLE category
(
    cat_id int,
    cat_name varchar(20),
    PRIMARY KEY (cat_id)
)
```

```
CREATE TABLE post_category
(
    cat_id int,
    post_id int,
    FOREIGN KEY (cat_id) REFERENCES category(cat_id),
    FOREIGN KEY (post_id) REFERENCES newspost(post_id)
)
```

7. Query:

1.Home page 1st post:

```
SELECT user.name,title,time_date,image,newspost.post_id FROM user JOIN writes JOIN  
newspost  
on user.id=writes.user_id AND newspost.post_id=writes.post_id AND  
newspost.approved='yes'  
ORDER BY newspost.post_id DESC LIMIT 0,1
```

2. Home page right side post:

```
SELECT user.name,title,time_date,content,image,post_id  
FROM user NATURAL join writes NATURAL JOIN newspost  
WHERE user.id=writes.user_id AND post_id=writes.post_id AND  
newspost.approved='yes'  
ORDER BY post_id DESC LIMIT 1,3
```

3. Home page bottom row post:

```
SELECT user.name,title,time_date,content,image,post_id  
FROM user NATURAL join writes NATURAL JOIN newspost  
WHERE user.id=writes.user_id AND post_id=writes.post_id AND  
newspost.approved='yes'  
ORDER BY post_id DESC LIMIT 4,8"
```

4.Page thumbnail show:

```
SELECT user.name,title,time_date,content,image,newspost.post_id  
FROM user JOIN writes JOIN newspost JOIN post_category  
on user.id=writes.user_id AND newspost.post_id=writes.post_id AND  
newspost.approved='yes'  
WHERE post_category.cat_id =$catid &&  
post_category.post_id=newspost.post_id  
ORDER BY newspost.post_id DESC
```

5.Single Post Show:

```
SELECT user.name,title,time_date,image,content FROM user NATURAL join writes  
NATURAL JOIN newspost  
WHERE user.id=writes.user_id AND post_id=writes.post_id AND  
newspost.approved='yes' AND post_id=$id
```

6.Search Option:

```
SELECT user.name,title,time_date,content,image,newspost.post_id,approved  
FROM user JOIN writes JOIN newspost JOIN post_category JOIN category
```

```

ON user.id=writes.user_id
AND newspost.post_id=writes.post_id AND newspost.approved='yes' AND
post_category.post_id=newspost.post_id
AND post_category.cat_id=category.cat_id
WHERE newspost.title like '%$search%' OR newspost.content LIKE '%$search%' OR
user.name LIKE '%$search%' OR
category.cat_name LIKE '%$search%'
ORDER BY newspost.post_id

```

7.Menu Name:

```
SELECT menu,categoryid FROM page WHERE 1
```

8.Page Heading:

```
SELECT * from page where categoryid='$catid'
```

9.Add Category:

```
INSERT INTO category(cat_name)
```

```
VALUES('$cat')
```

10.Add Page:

```
INSERT INTO page(menu,categoryid)
```

```
VALUES('$page','$cat')
```

11.Add Post:

```
INSERT INTO newspost(title,content,image)
```

```
VALUES('$title','$content','$uploaded_image')
```

```
INSERT INTO writes(user_id,post_id)
```

```
VALUES ('$userid', '$inserted_rows')
```

12.Edit Post:

```
UPDATE post_category
```

```
SET cat_id='$cat' WHERE post_id='$id'
```

13. Update page:

```
UPDATE page
```

```
SET
```

```
menu='$page',
```

```
categoryid='$cat'
```


WHERE id='\$id'"

14. Login:

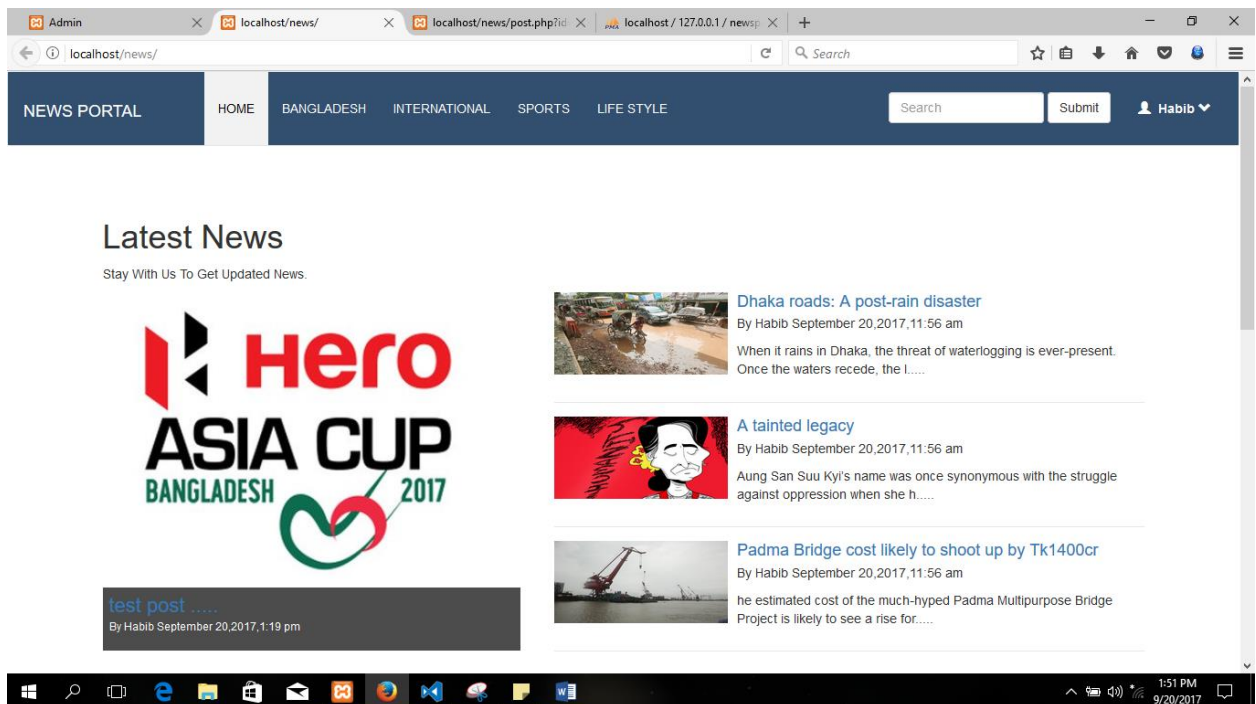
*SELECT *FROM user where email='\$email' and password='\$pass*

15. Signup:

INSERT INTO user (name,email,password,role,details)


VALUES ('\$name','\$email','\$pass','\$role','\$details')

8. Screenshots :



Admin localhost/news/post.php?id=9 localhost/news/post.php?id=9 localhost / 127.0.0.1 / news Search

NEWS PORTAL HOME BANGLADESH INTERNATIONAL SPORTS LIFE STYLE Search Submit Habib



Baliati Beats
By Habib September 20, 2017, 3:03 am

With two Bangladeshis winning the prestigious Aga Khan Award for Architecture, four Bangladeshi women in the fashion and style industries making it to the hallowed pages of Vogue India, and 2016 being Tourism Year for the country, the Fashion Design Council of Bangladesh (FDCB) has once again shown forethought in their choice of theme for this year's Khadi Festival, to be held on December 9 and 10.

Windows taskbar: 1:52 PM 9/20/2017

Admin localhost/news/post.php?id=9 localhost/news/post.php?id=9 localhost / 127.0.0.1 / news Search

News Portal Hello Habib | Logout

Dashboard Visit Website

User List
Add User
User List
Category Option
Add Page
Post Option

Add New Post

Title: Enter Post Title...

Category: Select Category

Upload Image: Browse... No file selected.

Content: [Rich Text Editor with various formatting tools]

Path: p

Save

Windows taskbar: 1:53 PM 9/20/2017

9. Conclusions: We have learnt a lot of things through this project. Mainly handling a full database, we have created the database, store data in that database. We have learnt how to draw ERD. ERD is a very basic concept of a database, after making that database we have also make its implementation in mysql. This was the challenging part of our project. We have also learnt how to select, insert and delete data in a database. We did all this things by writing query. In future we will try to develop new features in this project. We will also try to make our news portal online so that we can see news form our very own portal. We will also try to publish our universities news on this portal so that we can easily get all news in a same place & also we can search news here very efficient way.