

## Project Description

The project is a forum-style website with the main purpose of communication and interaction between like-minded individuals on the platform. The domain of the app is social media, particularly online interactions, news sharing, and general communication. Users are able to generate posts and comments with the ability to like or dislike them. The posts can have attachments including images, text, and video. Two types of users will be classified; guests and members. Any visitors to the site are classified as guests until they make an account. Only members are given access to all features stated above, guests can only view content.

## Schema Modifications

We removed the 'Action' and all related actions (Like, dislike, edit, delete, censor) from the schema, as those were not necessary for the implementation of the project. Instead, we are tracking and storing information about the likes and dislikes directly in the post and comment itself. Any other actions like edit and delete will be reflected directly in the content stored as part of "UserContent." Additionally, we removed the separate tables from attachment and combined them all into a separate field of attachment, as it makes more sense for the attachment types and information to be fields of the attachment. Lastly, we removed custom figures and badges, as those were not necessary for the implementation of the project.

## Updated Schema

Visitor(ip: string, experience: integer NOT NULL, vid: string PK, datecreated: date, name: string)

Guest(gid:string PK/FK(Visitor.vid))

Member(mid:string PK/FK (Visitor.vid), email:string NOT NULL, password: string NOT NULL)

UserContent(cid:string PK, mid: stringFK(member.mid), datecreated: date)

Post(pid: string PK/FK (UserContent.cid), upvotes: integer NOT NULL, downvotes: integer NOT NULL, title: string NOT NULL)

Attachment(attid: string PK, pid: string FK (Post.pid), type: string, content: string)

Views(vid: string NOT NULL, pid: string NOT NULL, PK (vid, pid))

## Data in each Relation:

Visitor:

```
SQL> select * from visitor;
```

IP	EXPERIENCE	VID	DATECREAT	NAME
192.010.303	50	10302	01-SEP-22	Bob
192.163.093	1	20530	28-FEB-19	Alice
192.156.525	1354	778	10-JAN-20	Jonathan
192.321.444	642	1053	12-JUN-21	Faker
192.111.593	123	10111	22-AUG-12	doublelift
192.121.545	12533	17	17-MAR-23	soccerplayer1
192.101.351	53433	3350	05-APR-11	kosmos
192.113.041	32987	351	31-DEC-22	zeezan
192.164.013	25921	41	03-JUL-13	snakes
192.151.343	8932	873	04-APR-15	cr7ronaldo

10 rows selected.

Guest:

```
SQL> select * from guest;
```

GID
10111
10302
1053
20530
778

Member:

```
SQL> select * from member;
```

MID	EMAIL	PASSWORD
17	soccerplayer4@outlook.com	logindude
3350	throwawayabc@email.com	logindude
351	olderperson@gmail.com	logindude
41	gamer12@outlook.com	logindude
873	cpscstudent@yahoo.com	logindude

### UserContent:

```
SQL> select * from usercontent;
```

CID	MID	DATECREAT
31	17	18-MAR-23
33324	3350	06-APR-12
8217	351	31-DEC-22
132	41	04-JUL-20
53452	873	04-APR-15
158	17	27-MAR-23
9932	3350	10-JUL-15
8168	351	09-JAN-23
554	41	27-OCT-21
9002	873	31-MAR-19

```
10 rows selected.
```

### UserComment:

```
SQL> select * from usercomment;
```

COID	UPVOTES	DOWNVOTES	CONTENT
31	31	5	wow thats really insightful!
33324	40	10	youre just wrong here, how can you say that!?
8217	35	100	ill have you know I graduated at the top of my class
132	4512	23	actually if you use this weapon you can get 100 more damage
53452	9529	501	the site has come a long way now!

### Post:

```
SQL> select * from post;
```

PID	UPVOTES	DOWNVOTES	TITLE
158	5001	2500	Ronaldo Leaves Real Madrid!
9932	10	5345	Dr. Recommends an apple a day.
8168	947	5	Elden Ring most played game of 2022
554	8811	23	Why dont we have any moderators on this site!?!?
9002	1000	9923	Unpopular Opinion: water sucks

### Attachment:

```
SQL> select * from attachment;
```

ATTID	PID	TYPE	CONTENT
5	158	image	www.image1.com
6	9932	link	www.github.com
7	8168	video	www.youtube.com/watch?v=vS3_72Gb-bI
8	554	text	I think that there are many things we should consider regarding laws relating to gambling.
9	9002	image	www.image3.com

Views:

```
SQL> select * from views;
```

VID	PID
10302	158
10302	9932
41	554
778	9932
873	9932

**SQL Queries:**