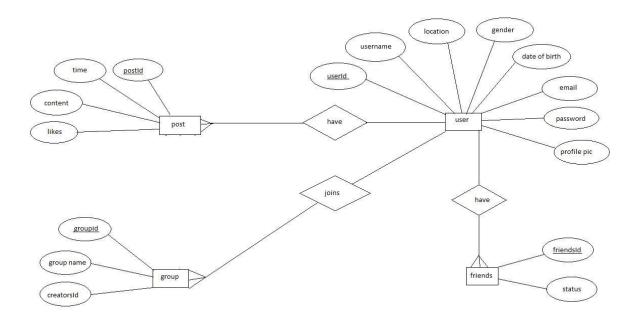
- Roll No.4 : Prasad Lomte
- Roll No.7: Niranjan Kumbhar
- Roll No.8: Nisha Bodakhe

1.ER



2.SCHEMA (chatting group-SMP)

	Use	r			
	User id	PK			
	Username		}	Frien	ds
	Location			Friends id	PK
	Gender			User id 1	FK
	Dob		I –	User id 2	FK
	Email			Status	I IX
	password] L	Julus	
	Profile pic		1		
	Group id	FK			
F			1	P	ost
_	Grou	_		post id	PK
	Creators	FK		Time	
	ID			Content	
	(user id)		1	Like	
_	Group ID	PK		User id	FK
	Group name				l

Contd.....

Conditions for 1NF

• One cell = one value

• There should not be multiple columns with same attributes

Conditions for 2NF

- Must satisfy **1NF** condition
- Non key attributes depend on primary key (independency)
- No partial dependency
- Partial key dependent on composite key

Conditions for 3NF

- Must satisfy 2NF
- There should not be transitive functional dependency
- Non-key value does not show dependency on other non-key value

Boycc-Codd Normal Form (BCNF) (if more than 1 composite key appeared)

- X -> y then x will be candidate key
- One of the key should be candidate key or super key
- It should satisfy 3NF

User				
User id	PK			
name				
Location				
Gender				
Dob				
Email				
password				
Profile pic				
Group id	FK			
Friends ID	FK			

// comments: satisfy 1NF
// comments: satisfy 2NF
// comments: satisfy 3 NF

Normalization

Frien	ıds
Friends id	PK
User id 1	FK
User id 2	FK
Status	

Frien	ıds	// comments: satisfy 1NF
Friends id	PK	// comments: satisfy 2NF
Status		// comments: satisfy 3 NF

Grou	ıр
Creators	FK
ID	
(user id)	
Group ID	PK
Group	
name	

```
// comments: satisfy 1NF
// comments: satisfy 2NF
// comments: satisfy 3 NF
```

Pos	t
post id	PK
Time	
Content	
Like	
User id	FK

// comments: satisfy 1NF
// comments: satisfy 2NF
// comments: satisfy 3 NF

Use	er				
User id	PK	_		Frier	nds
Username			F	Friends id	PK
Location			F	Status	
Gender			L		
Dob					
Email					
password					
Profile pic					
Group id	FK				
Friends ID	FK				
Grov		٦	Ļ	Pos	ıt.
Grou]	Ļ	Pos post id	
Creators	ıp FK]	L		
Creators ID				post id	
Creators ID (user id)	FK			post id Time	
Creators ID		- -		post id Time Content	et PK

Normalization