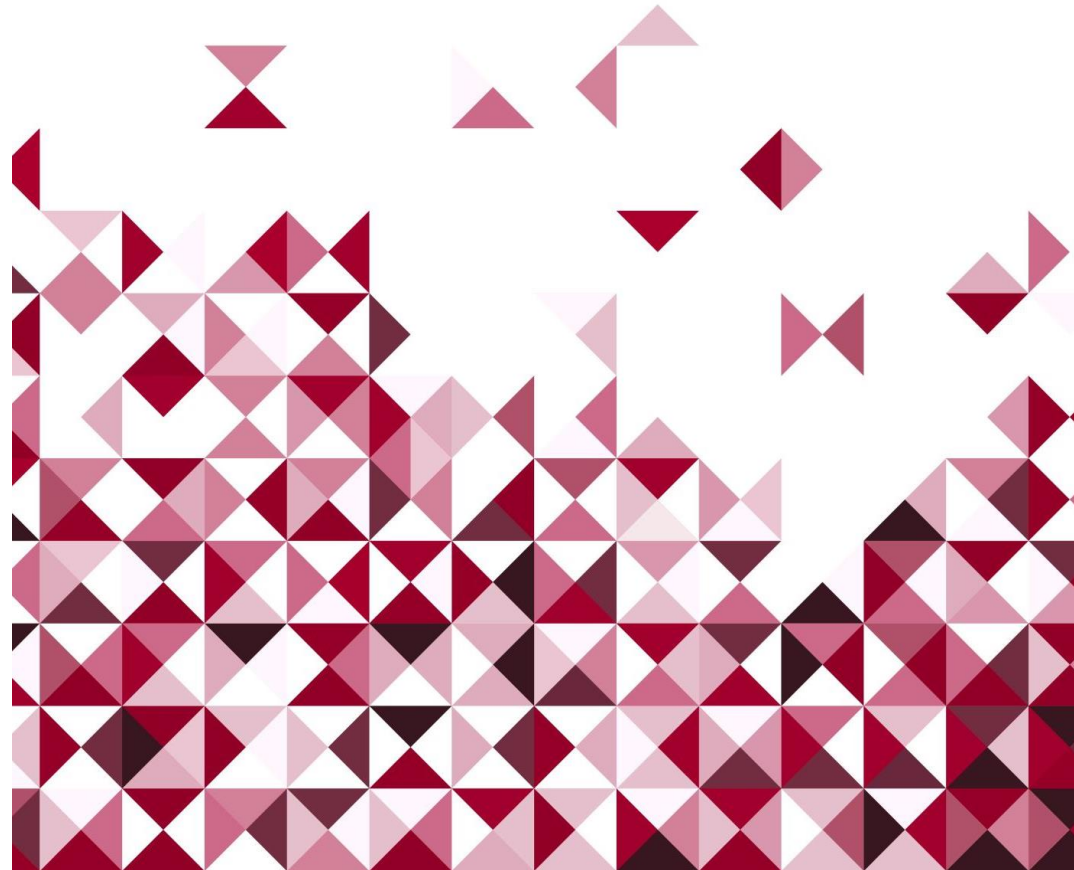

Module 8 Lab 1

A Social Media Application Entity
Relationship Logical and Physical Models

W. Dewi Fitriasaki

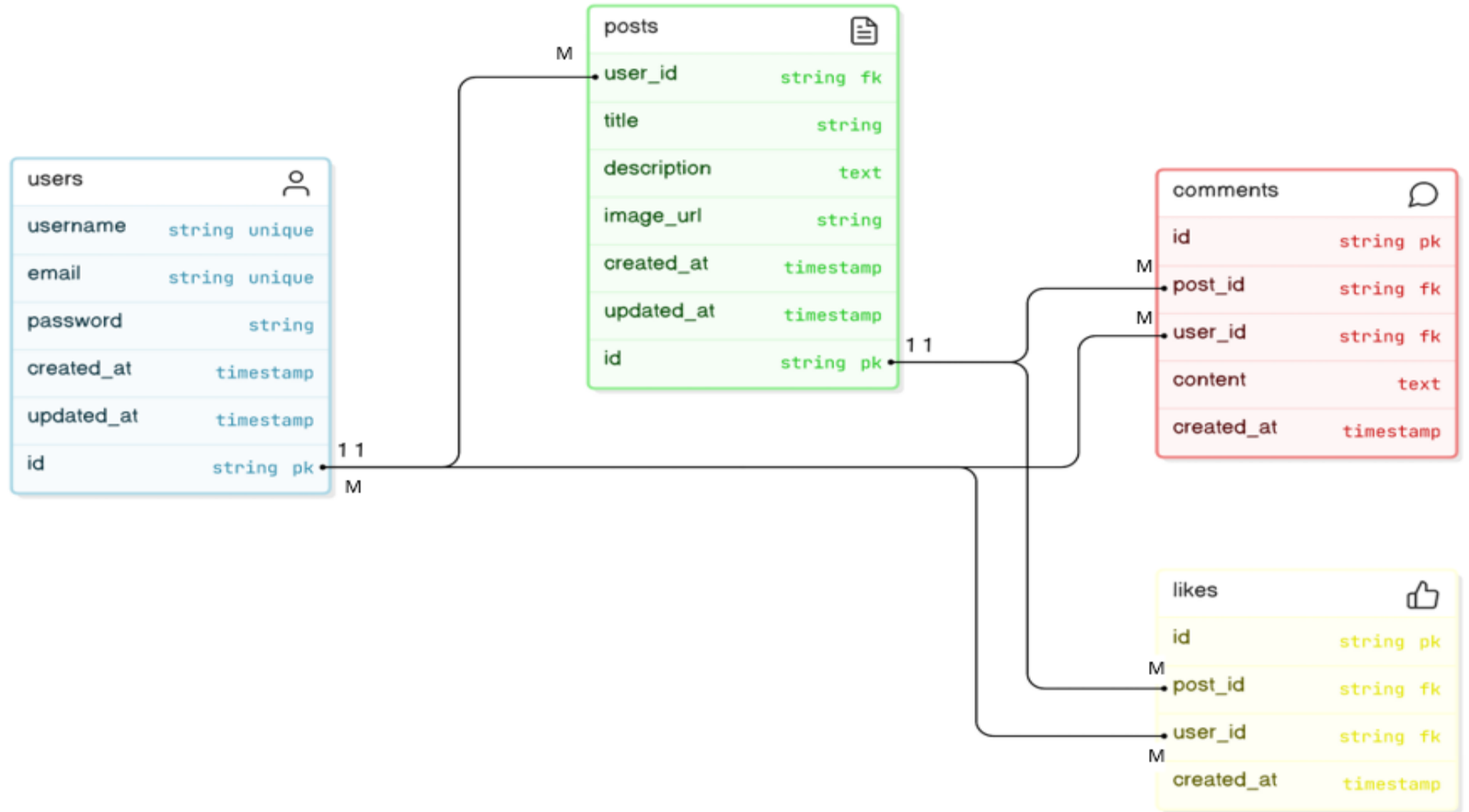


Requirements for Lab 1:

- Design a Logical and Physical Model for a general Blogging application.
 - Requirements:
 - The system should store users (using basic user-related fields)
 - The users should be able to create multiple posts (posts should be very basic with title, description and image)
 - Other users should be able to like and comment on the posts.
-

Logical Model

A SOCIAL MEDIA DB LOGICAL MODEL



Physical Model (Mongo DB)

User collection:

```
{  
  "_id": ObjectId("..."), // MongoDB generated  
  "username": "unique_username",  
  "email": "user@example.com",  
  "password": "hashed_password",  
  "created_at": ISODate("2023-10-01T00:00:00Z"),  
  "updated_at": ISODate("2023-10-01T00:00:00Z")  
}
```

Physical Model (Mongo DB)

Post collection:

```
{  
  "_id": ObjectId("..."), // MongoDB generated  
  "user_id": ObjectId("..."), // Reference to User  
  "title": "Post Title",  
  "description": "Post description here.",  
  "image_url": "http://example.com/image.jpg",  
  "created_at": ISODate("2023-10-01T00:00:00Z"),  
  "updated_at": ISODate("2023-10-01T00:00:00Z"),  
}
```

Physical Model (Mongo DB)

```
"comments": [  
  {  
    "comment_id": ObjectId("..."), // Unique comment ID  
    "user_id": ObjectId("..."), // Reference to User  
    "content": "Here is a comment:",  
    "created_at": ISODate("2023-10-01T00:00:00Z")  
  }  
,  
  "likes": [  
    ObjectId("..."), // Array of User IDs who liked the post supposed to be here  
    ObjectId("...")  
  ]  
}
```

END
