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PROJET ABOUT :

('Sociel Media Web Site ')

3rd year Computer Science.

Framed by: DC:Houssem eddine DEGHA

2023/2024

Introduction:

Our project involves the development of a social media website within the WordPress environment. WordPress is a versatile content management system (CMS) that allows for easy website creation and customization. For this project, we utilized the Astra theme and developed custom plugins to create specific interfaces for various functionalities such as login, admin management, and posting.

Technologies Used:

WordPress: Content management system for website development.

Astra Theme: Installed and configured the Astra theme to provide a clean and responsive design..

PHP: Server-side scripting language for WordPress plugin development.

JSON: Data interchange format used for communication between plugins and interfaces.

SQL: Database language for storing and managing website data.

components:

Login Interface:

Developed a plugin for user login functionality.

Integrated JSON for handling login requests and responses.

Created a login page with shortcode for easy access.

Admin interface:

Built a plugin for admin functionalities such as user management, content moderation, etc.

Implemented JSON for communication with the admin panel.

Integrated shortcode for accessing admin features.

Post Interface:

Developed a plugin for posting content on the social media platform.

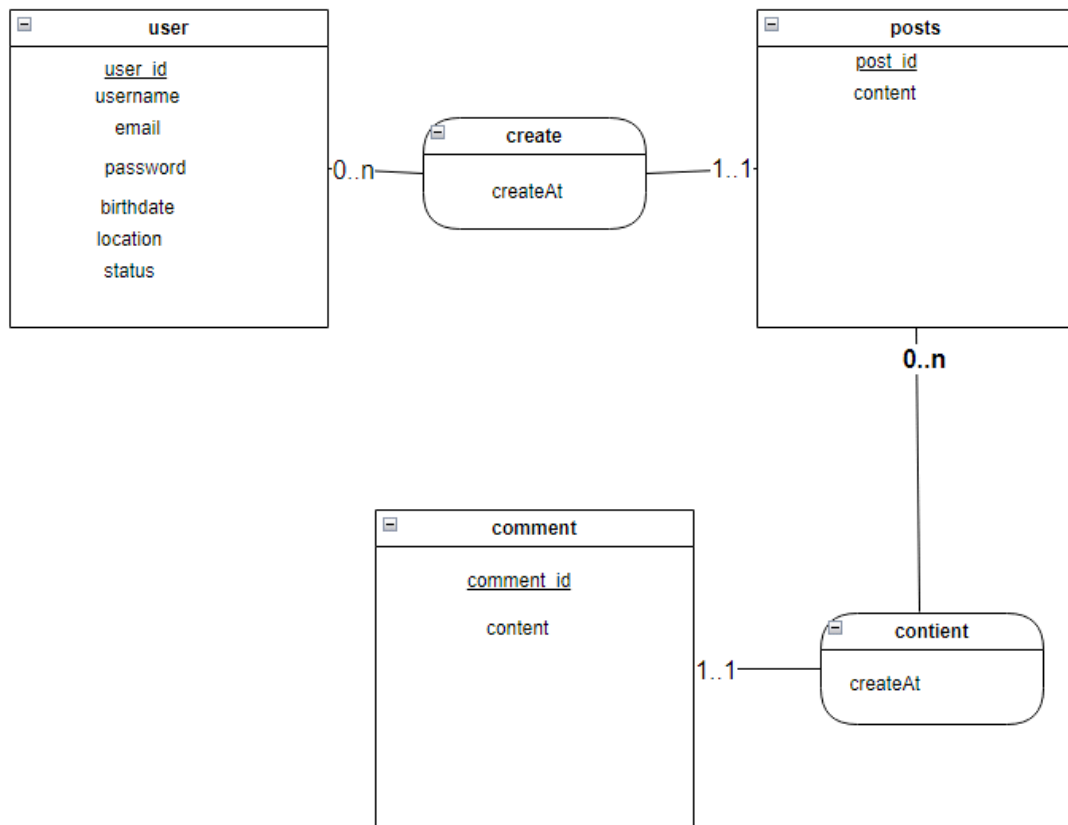
Utilized JSON for handling post requests and responses.

Integrated shortcode for posting content from the frontend.

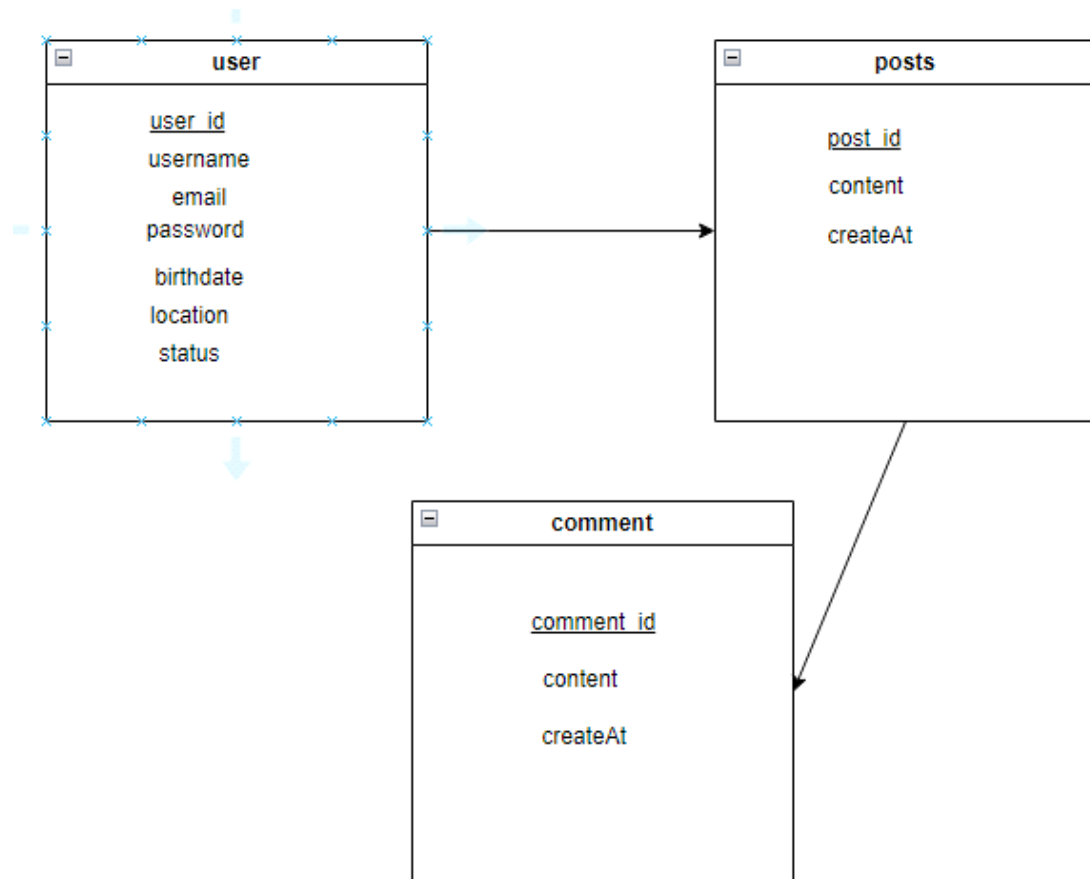
diagramme:

for sql project:

model mcd:



normalisation:



user(user_id,username,email,password,birthdate,
location,status)

post(post_id,user_id,content,createAt)

comment(comment_id,post_id,content,createAt)

model xml:

```
<users>
  <User_Id> 1</User_Id>
  <UserName>john_doe</UserName>
  <Email>john@example.com</Email>
  <password>111</password>
  <Birthdate>1990-01-01</Birthdate>
```

```

<Location> Country</Location>
<status>>false</status>
<posts>
  <Post_Id>1</Post_Id>
  <User_Id>1</User_Id>
  <Content>hi</Content>
  <creat_at>01-03-2024</creat_at>
  <comments>
    <comment_Id>1</comment_Id>
    <Post_Id>1</Post_Id>
    <Content>hello</Content>
    <creat_at>01-03-2024</creat_at>
  </comments>
</posts>
</users>

```

model DTD:

```

<!DOCTYPE TP[

<!ELEMENT users (User_Id, UserName, Email, password, Birthdate, Location,
status (p_id)*)>

<!ELEMENT User_Id (#PCDATA)>
<!ELEMENT UserName (#PCDATA)>
<!ELEMENT Email (REQUIRED)>
<!ELEMENT password (#PCDATA)>
<!ELEMENT Birthdate (#PCDATA)>
<!ELEMENT Location (#PCDATA)>
<!ELEMENT status (#PCDATA)>


<!ELEMENT Post (Post_Id, Content, creat_at, (comments)*, pp_id)>
<!ELEMENT Post_Id (#PCDATA)>
<!ELEMENT Content (#PCDATA)>
<!ELEMENT creat_at (#PCDATA)>
<!ELEMENT p_id,pp_id (#PCDATA)>


<!ELEMENT comment (comment_Id, Content, creat_at)>
<!ELEMENT comment_Id (#PCDATA)>

```

<!ELEMENT content (#PCDATA)>

for project semi_structured(json):

json file:

```
{
  "users": [
    {
      "userId": 1,
      "username": "john_doe",
      "fullName": "John Doe",
      "email": "john@example.com",
      "password": "123",
      "birthdate": "1990-01-01",
      "location": "City, Country",
      "admin": true,
      "createdAt": "2024-02-18T12:00:00Z"
    }
  ],
  "posts": [
    {
      "postId": 101,
      "userId": 2,
      "content": "This is John's first post!",
      "comments": [
        {
          "commentId": 201,
          "userId": 2,
```

```
        "content": "Nice post, Jane!",
        "createdAt": "2024-02-18T13:00:00Z"
    }
]
}
]
```

model xml:

```
<users>

  <userId>1 </userId>

  <username>john_doe</username>

  <fullName>John Doe</fullName>

  <email>john@example.com</email>

  <password>123</password>

  <admin>>false</admin>

  <birthdate>1990-01-01</birthdate>

  <location>Country</location>

  <posts>

    <postId>101</postId>

    <userId>1</userId>

    <content>This is John's first post!</content>

    <createdAt>2024-02-18T13:00:00Z</createdAt>

  </posts>

  <comments>

    <commentId>201</commentId>

    <postId>2</postId>

  </comments>

</users>
```



```

        <content>Nice post, John!</content>

        <createdAt>2024-02-18T13:00:00Z</createdAt>

    </comments>

</posts>

</users>

```

model DTD:

```

<!DOCTYPE tp[

<!ELEMENT users (User_Id, UserName,fullname, Email, password, Birthdate,
Location, status (p_id)*)>

<!ELEMENT User_Id (#PCDATA)>

<!ELEMENT UserName (#PCDATA)>

<!ELEMENT fulName (#PCDATA)>

<!ELEMENT Email (REQUIRED)>

<!ELEMENT password (#PCDATA)>

<!ELEMENT Birthdate (#PCDATA)>

<!ELEMENT Location (#PCDATA)>

<!ELEMENT status (#PCDATA)>


<!ELEMENT Post (Post_Id, Content, creat_at, (comments)*, pp_id)>

<!ELEMENT Post_Id (#PCDATA)>

<!ELEMENT Content (#PCDATA)>

<!ELEMENT creat_at (#PCDATA)>

<!ELEMENT p_id,pp_id (#PCDATA)>


<!ELEMENT comment (comment_Id, Content, creat_at)>

<!ELEMENT comment_Id (#PCDATA)>

<!ELEMENT content (#PCDATA)>

]>

```

conclution:

In conclusion, the development of the social media website within the WordPress environment using the Astra theme and plugins has been successfully achieved.