SUNSTONE

—— "Social Media Website And Application"

TASK - 1

Social Media Website And Application

Introduction

LMS Username	Name	Batch
	Bala chandran K	10
	Dhinakaran E	10
	Arivazhagan S	10
	Gokul R	10

Introduction to Social Media Websites and Applications

Purpose ➜ Document Conventions

✓ Headers and Sub-headers

✓ Bulleted and Numbered Lists

✓ Emphasis

✓ Examples Links

✓ Graphics and Visual

➜ Scope

✓ Introduction to Social Media

✓ Key Features

✓ Impacts and Influence

✓ Business and Marketing

✓ News and Information

✓ Entertainment

✓ Privacy and Security

✓ Emerging Trends

Product Perspective:

These platforms prioritize user-friendly interfaces, intuitive navigation, and responsive design to enhance the user experience.

Accessibility features are often integrated to ensure the platform is usable by individuals with disabilities.

In summary, the product perspective of social media websites and applications emphasizes user-centric design, data management, security, performance, and compliance with legal regulations. These platforms are designed to foster user engagement, offer opportunities for monetization, and provide a safe and enjoyable online experience.

Product Function:

The core functions of a social media website and application include:

User Profile Creation

Engagement

Networking

Content Sharing

Privacy Controls

User Classes and Characteristics:

Social media platforms cater to a diverse range of user classes and characteristics:

General Users

Content Creators

Businesses

Developers

News Organizations

Operating Environment:

Multiple Platforms

Internet Connectivity

Web and Mobile

Dependencies:

User Internet Access

User Compliance Third-

Party Integration Data

Privacy

Requirements:

The development and maintenance of social media websites and applications entail various requirements, including:
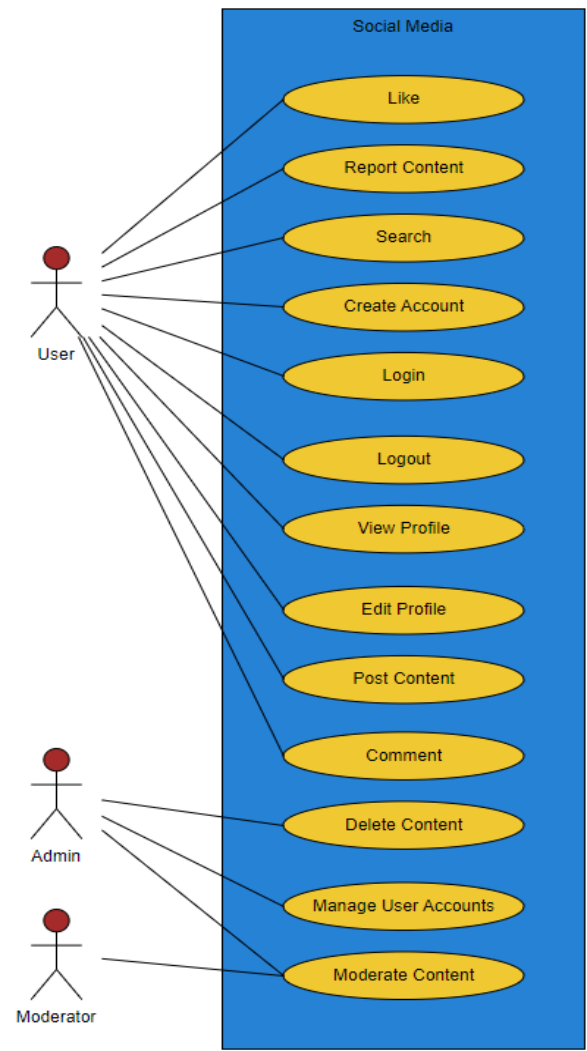
Scalability

Data Analytics

User Experience

Performance

Security

USECASE DIAGRAM:

Data Requirements:

User Profiles: Information provided by users, such as names, photos, interests, and connections.

Content: Text, images, videos, and metadata associated with user-generated content.

Engagement Data: Information on user interactions, including likes, comments, shares, and reactions.

Analytics Data: Data related to user behavior, traffic, and engagement to inform platform improvements.

Privacy Data: User preferences and privacy settings to ensure compliance with data protection laws.

External Interface Requirements for Social Media Website and Applications:

External interfaces are crucial components of social media websites and applications as they determine how users interact with the platform and how the platform communicates with other systems.

Further Slides Shows the key external interface requirements for social media websites and applications, focusing on Graphical User Interfaces (GUI) and system features

1. **Graphical User Interface (GUI):**

User Registration and Login User

Profile

Content Sharing

News Feed and Timeline

Engagement Features Search

and Discovery Settings and

Privacy

2.System Features:

API Integration

Reporting and Moderation

Analytics and Insights

Monetization and Advertising

Creating a social media website and application involves various requirements, including data and category requirements, an appendix, glossary, and a class diagram. Below, I'll outline these requirements in more detail:

1. Data Requirements:

User Profiles:

Username
Profile picture
Contact information
Privacy settings

Posts:

Text content

Media uploads (images, videos)

Timestamp

Likes, comments, shares

Friend/Following System:
Friend list or followers/following

Messaging:
Private and group messaging

Notifications:

Real-time notifications for likes, comments, messages, etc.

Analytics:
User engagement data

Reporting and Moderation:
Reporting abusive content

Authentication and Security:
Passwords, two-factor authentication, account recovery

2. Category Requirements:

User-generated Content:
Categories for posts (e.g., photos, status updates, articles)
Hashtags for organizing content

User Interests:
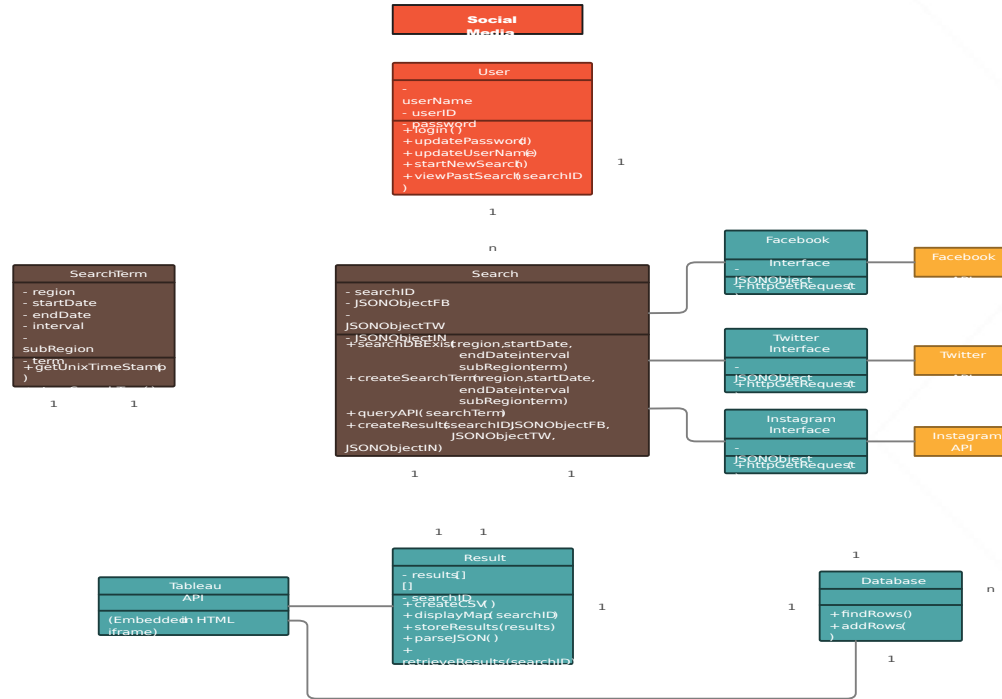Categories or tags for user interest

Privacy Settings:
Categories for controlling who can see posts (e.g., public, friends, private)

Recommendations:
Categories for content recommendations based on user interests

5. Class Diagram

Social Media

User
- userName
- userID
- password
+login( )
+updatePassword( )
+updateUserName( )
+startNewSearch( )
+viewPastSearch(searchID)

SearchTerm
- region
- startDate
- endDate
- interval
- subRegion
- term
+getUnixTimeStamp( )

Search
- searchID
- JSONObjectFB
- JSONObjectTW
- JSONObjectIN
+searchDBExist(region, startDate, endDate, interval, subRegion, term)
+createSearchTerm(region, startDate, endDate, interval, subRegion, term)
+queryAPI(searchTerm)
+createResult(searchID, JSONObjectFB, JSONObjectTW, JSONObjectIN)

Facebook Interface
- JSONObject
+HttpGetRequest( )

Facebook API

Twitter Interface
- JSONObject
+HttpGetRequest( )

Twitter API

Instagram Interface
- JSONObject
+HttpGetRequest( )

Instagram API

Result
- results[]
- searchID
+createCSV( )
+displayMap(searchID)
+storeResults(results)
+parseJSON( )
+retrieveResults(searchID)

Tableau API
(Embedded in HTML iframe)

Database
+findRows( )
+addRows( )

1   1   n   1   n   1   1   1   1   1   1   1   1   1   1   1

Submission Github

https://github.com/gokulr-tech/NM-DSCET-GROUP-10

Thank you!