

Software Engineering IT314



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Social media app like Instagram, Facebook

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Version: 1.0.0

Start Date: 28-02-2022, End Date: 13-05-2022 (Approx. 11 weeks)

Objectives of the Project: -

Our software is a computer-based technology that facilitates the sharing of ideas, thoughts, and information through the building of virtual networks and communities.

The primary aim of this software is a social network that lets people connect to each other. This software provides a media sharing network i.e uploading media(photos and videos), comment posts, sharing written content and posts on other social media apps. This system provides users to register their various types of profiles like social, personal, professional.

Our software is also used for marketing which is one of the best ways to increase brand awareness and visibility.

Our software allows individual users to create profiles containing various information about themselves. Users can often upload pictures of themselves to their profiles, post blog entries for others to read, search for other users with similar interests, and compile and share lists of contacts. In addition, user profiles often have a section dedicated to comments from friends and other users. To protect user privacy, social networks usually have controls that allow users to choose who can view their profile, contact them, add them to their list of contacts, and so on.

Tentative Web Pages details: -

- Authentication Page
- Profile page
- Setting page
- Search page
- Notification page
- Feed page
- FAQ Page
- Contact Us Page
- Feedback Page

Functionalities (briefly, the maximum limit is two pages)

-> Basic functionalities:-

- 1) **Create Account** - The user can simply sign in using a Facebook account or create a new account by providing required information about himself/herself. After creating an account, it will display the account created successfully. The user has to set their unique username, name, and acceptable password for creating the account. At the time of creating an account, users have to set the account to be either a public or private or professional account.
- 2) **Login/Logout** - Once the account is created, the user can log in directly by entering his/her account's password. Then the user can log out when he/she wishes to do so.
- 3) **Delete Account** - If the user wants to delete his/her account because of any reason, the user can do so.
- 4) **Edit Profile** - The user can set the profile photo if the user wants and can edit the username, name, or profile photo.
- 5) **Follow people and friends** - If a user wants to see any others' posts or stories or chat with them, then the user has to follow that user. If the account that the user had to follow is public then he/she can directly follow the account and if the account is private then the other person gets a request and if accepts the request then the user can follow them.
- 6) **Post photo/video** - To upload any photo or video first select the respective file from the gallery if someone wants to edit they can. After editing they can simply share the photo or the video or any other text posts.
- 7) **Like/Comment/Share/Save any post/video** - The users can like others' posts, they can write something in the comment section, they can even share others' posts, they can also save posts for their own purpose.
- 8) **Search people and friends** - The user can search their friends or anyone's account by searching the username or name in the search bar.

9) Notification - If someone likes or comments on your post or someone sends you a follow request then you get a notification for the same.

10) Chat - Users can chat with anyone he/she wants.

-> Other functionalities:-

1) Create and post stories - Users can post stories that only his/her followers can see. The story will automatically be deleted after 24 hours.

2) Audio/Video Calling - If two users follow each other then they can call each other (audio/video).

3) IGTV - If users want to upload any long video, they can do as IGTV. For example:- someone wants to upload a video of any dance or any cooking recipe they can do in IGTV.

4) Camera filters - Many filters are available from which users can select which they like.

5) Post short videos - Users can also post short videos like videos in TikTok and youtube.

6) Random Group Chat - People over the world create room and give the name of the topic to the room and people in the room talk related to that topic.

7) Bluetick for the well-known person - Bluetick behind the username is given some well-known personality and famous person.

8) Feeds and activity - Users can see posts and videos of the type they like and share with other people.

9) Settings and profile - User can change password, update the type of account (from public to private or vice versa), privacy settings, theme, accounts which are blocked.

10) FAQ - The user can get information about this software and privacy policies.

11) Block/Report User - Users can report/block any other user if they think is required to do so.

Project deliverables:

➤ Milestones (for upcoming two weeks)

- 25-03-2022 to 05-04-2022: complete home page and authentication page
- 06-04-2022 to 20-04-2022: story page and post image/video page and other things
- 21-04-2022 to 30-04-2022: searching, create a connection between different users and final touch.

➤ List of final deliverable:

- Report for audit
- Complete of documentation
- Users guide

Estimated total time (Unit: hours)

activity	hours
Authentication system(0001)	3
Home page and profile page(0002)	10
Upload story, Image/video (0003)	7
Like, comment, share implementation (0004)	6
Send/accept Friend requests(0005)	5
Chat (0006)	7
FAQ page(0007)	4
Approximate Total Hours	40-45 hours

Hardware requirements:

- i3 Processor or Android Version 4.0 or Higher
- Minimum 2GB RAM
- Minimum 512 MB free space should be available.

Software requirements:

- Android OS or Windows 7 and up.
- Supported browsers: Google Chrome, Brave, Safari, Microsoft Edge, Mozilla Firefox.
- Good and stable internet connection.

Technology / Architecture:

- React JS
- HTML, Javascript
- Real-time database

Standards to be followed:

- Meaningful names of functions and variables.
- All the codes have some comments so that if another person is working on that they can easily understand the code.
- Camel casing naming convention for variables and functions.
- A separate file for all utility functions.
- Use indentation to mark the beginning and end of control structures. Clearly specify the code between them.
- We Don't use a single identifier for multiple purposes.