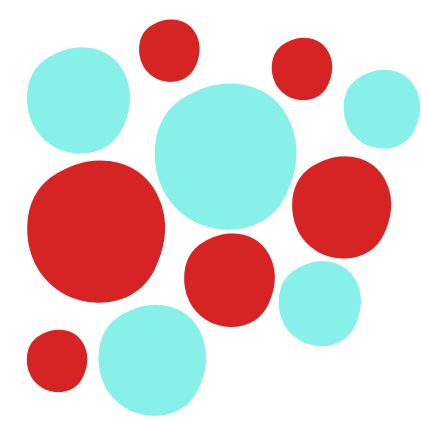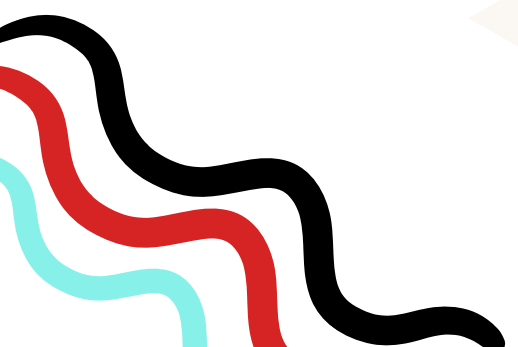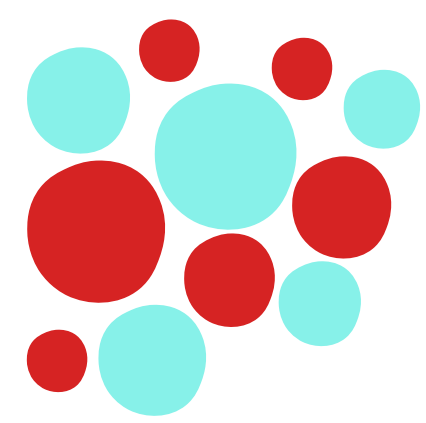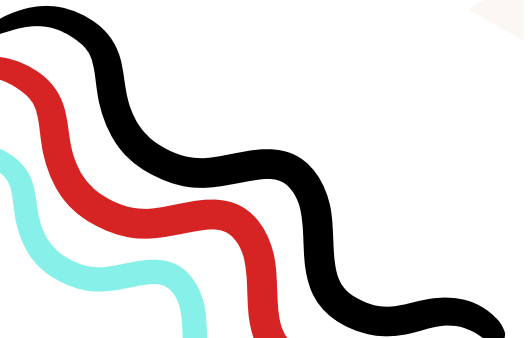# TikTok

TikTok is a social media platform where users can create and share short videos and shop from the TikTok store. It's all about expressing yourself through 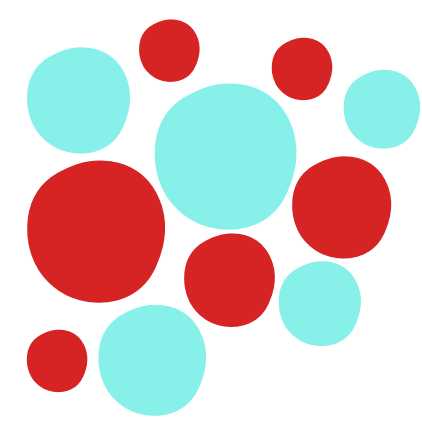music, dance, comedy and more. You can follow your favorite creators, discover trending challenges, and even create your own content!
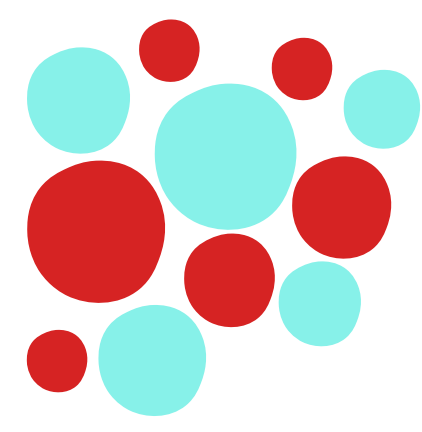
If you want to build a TikTok program or similar to it, in this presentation we will give you the most important details that you will need to build a program similar to it.
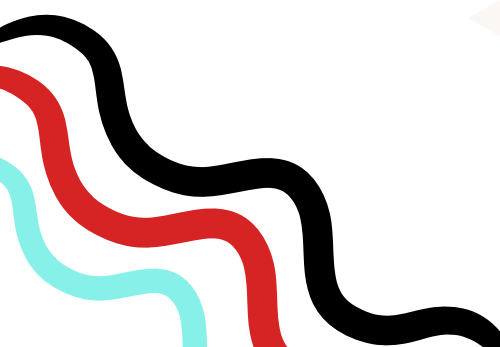
TikTok app has so many Functional requirements like sign up if he is a new user and if he is an old user he just login and can log out of his account easily, and there are other functional requirement like: search, like, Add friends, comment, create videos and so on!
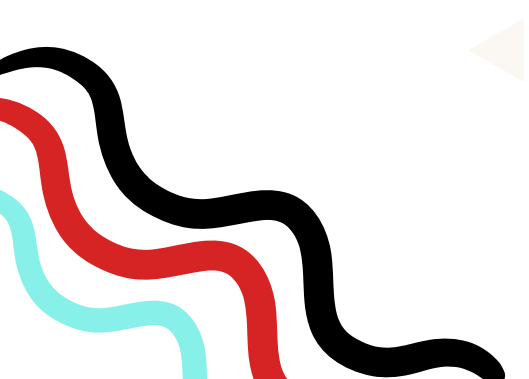
And for the Non-functional requirements, TikTok app must be available for 24 hours to users and their data must be secure and protected and for the Performance, The system must processes all clips posted by influential people in a fast way also the app must have an easy-to-use graphical user interface.
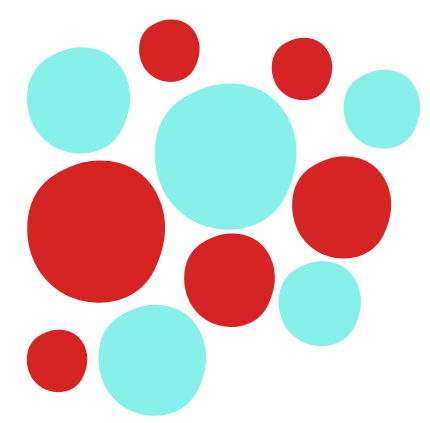
Now we gonna move to UML diagram that may help

you to build an app like TikTok

Activity diagram:

The activity diagram visually presents a series of actions or flow of control in a system. And here an activity diagram for our app:
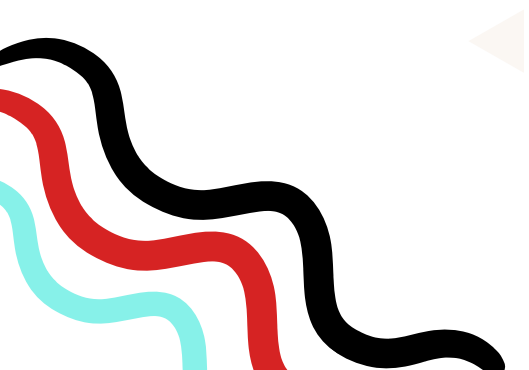

login

user login to his account

Yes — No

show the home page | Create new account

write comment

Comment

user can search for specific videos, accounts, or hashtags.

Search

user can choose any sound they want and add it to their video

Add sound

user can post the edited video to their profile

Post videos

Users can choose to follow other accounts

Add freind

edit account settings

Yes — No

Profile managment | log out

Use case:

Use cases helped us to describe the functional requirements by illustrating actors and their roles, it classified and organised the system as a whole, and we have three actors as shown here:

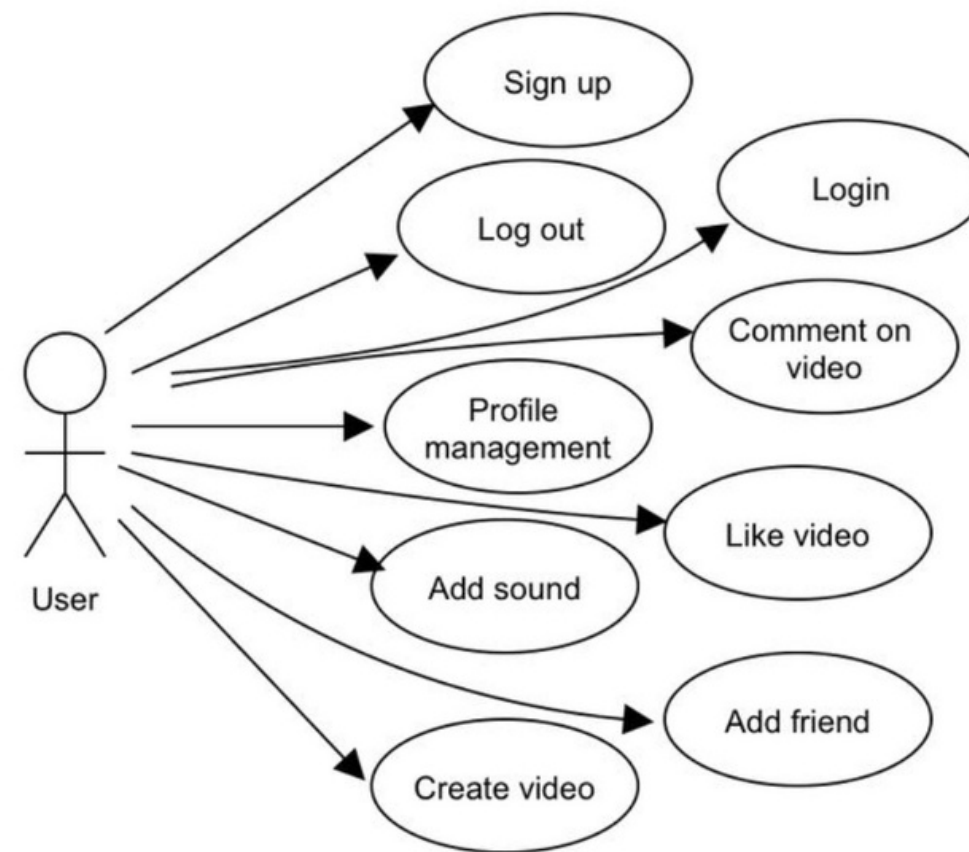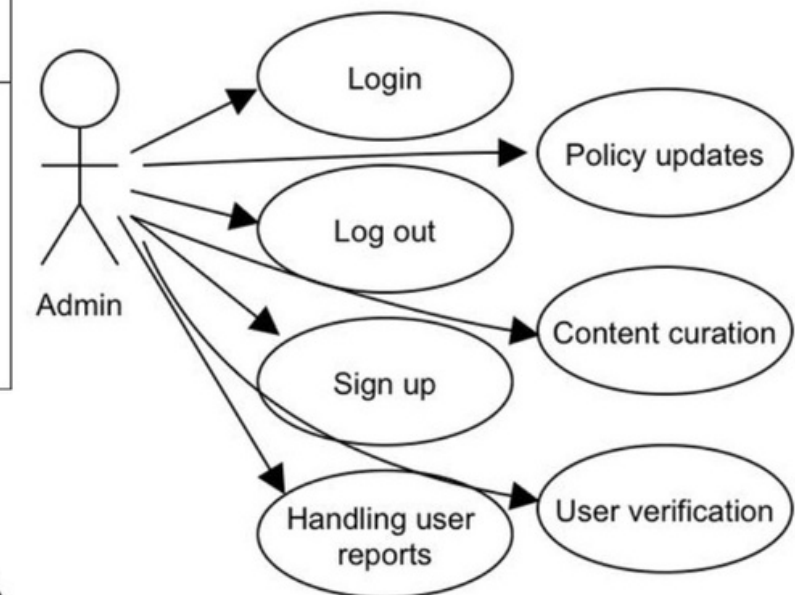| Actors	Roles
Guest	-Watch videos -Watch comments -Search
User	-sign up -login -log out -profile management -add friend -add sound -create video -comment on video -like video
Admin	-Sign up -login -log out -Handling user reports -content curation -user verification -policy updates
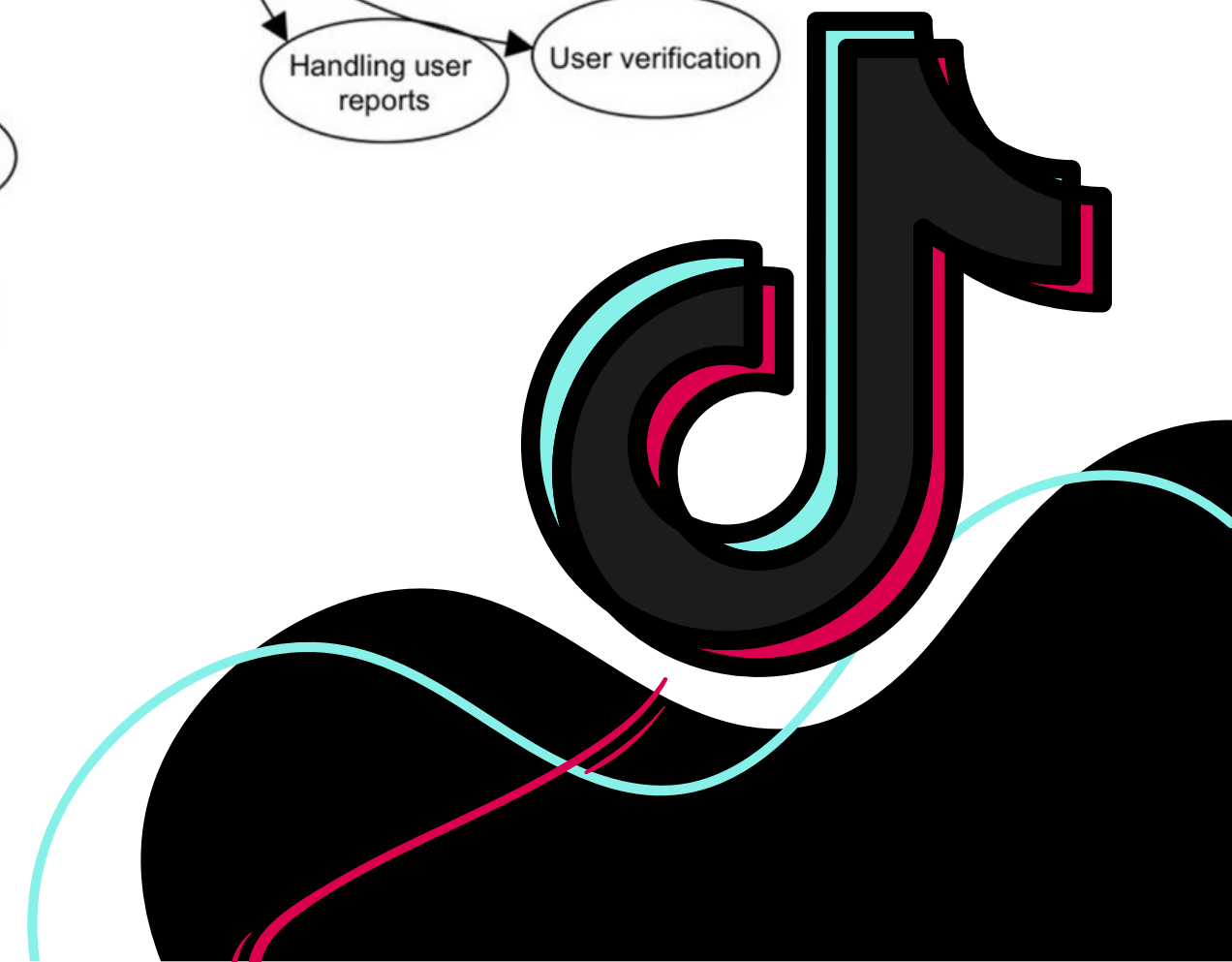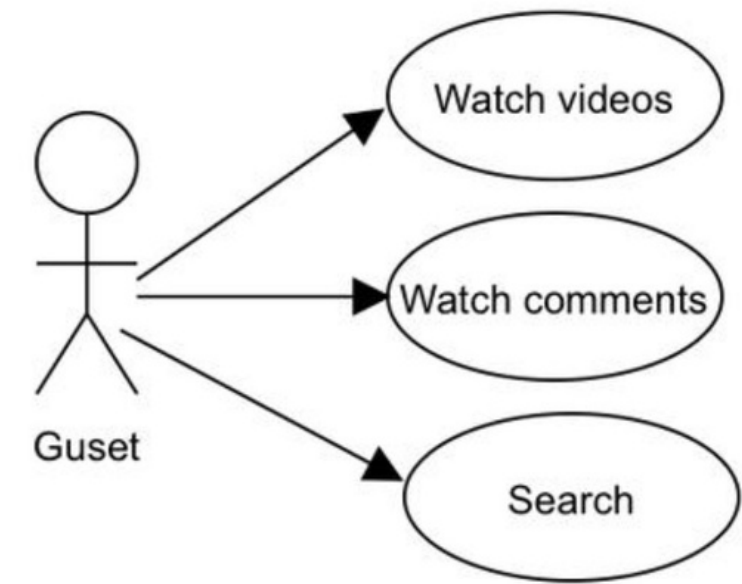
Sequence diagram:

A sequence diagram shows process interaction arranged in a time sequence, and it's depicts the processes and objects involved and the sequence of messages exchanged as needed to implement the function, and here we have a sequence diagram for a login in TikTok:
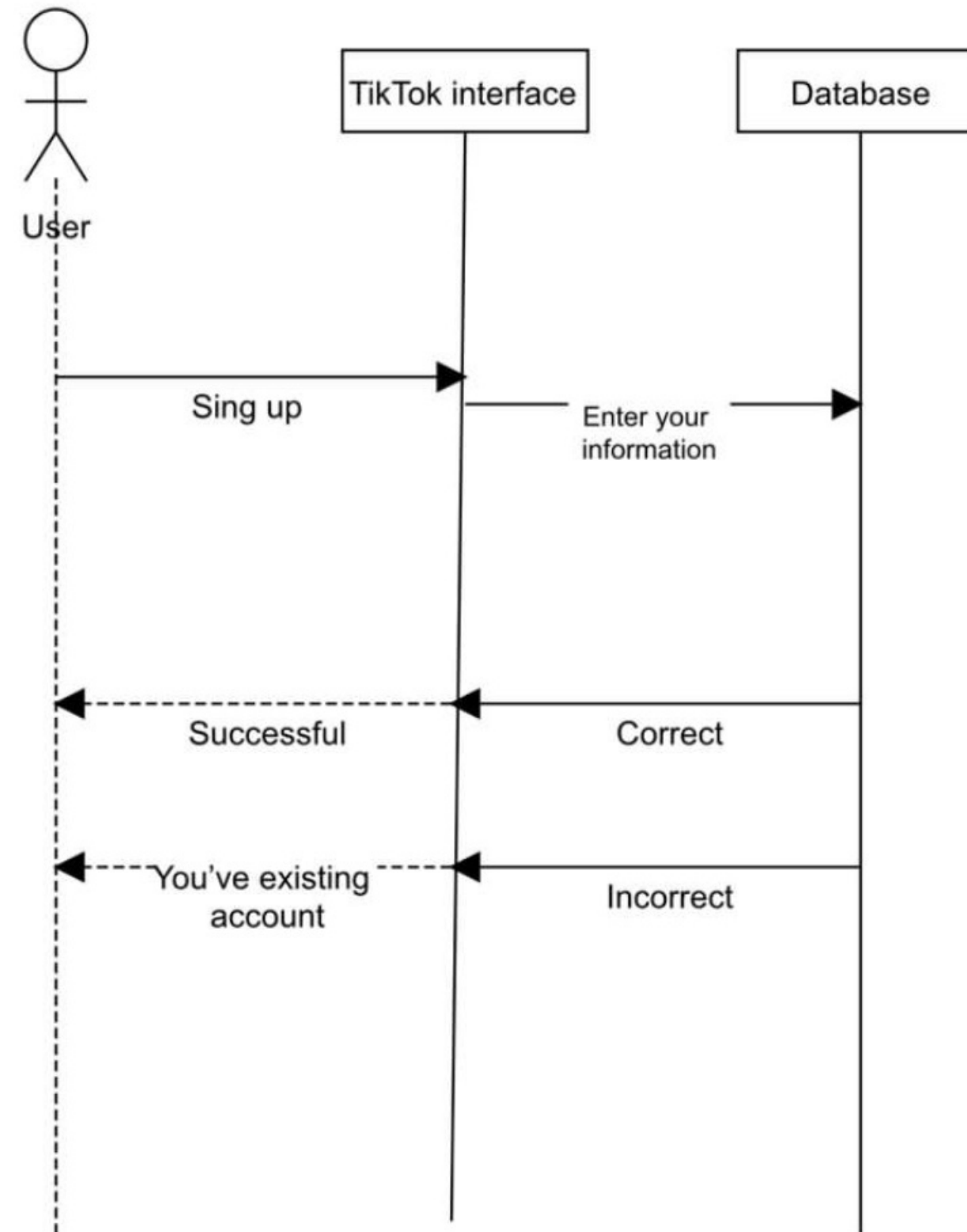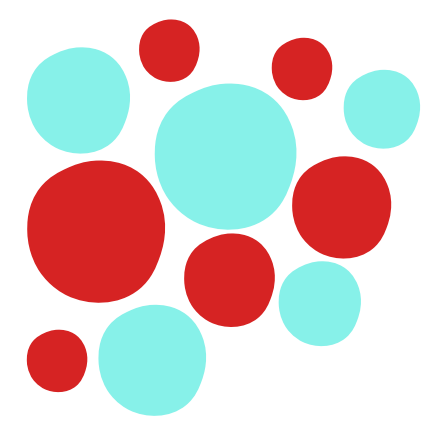
Class diagram:

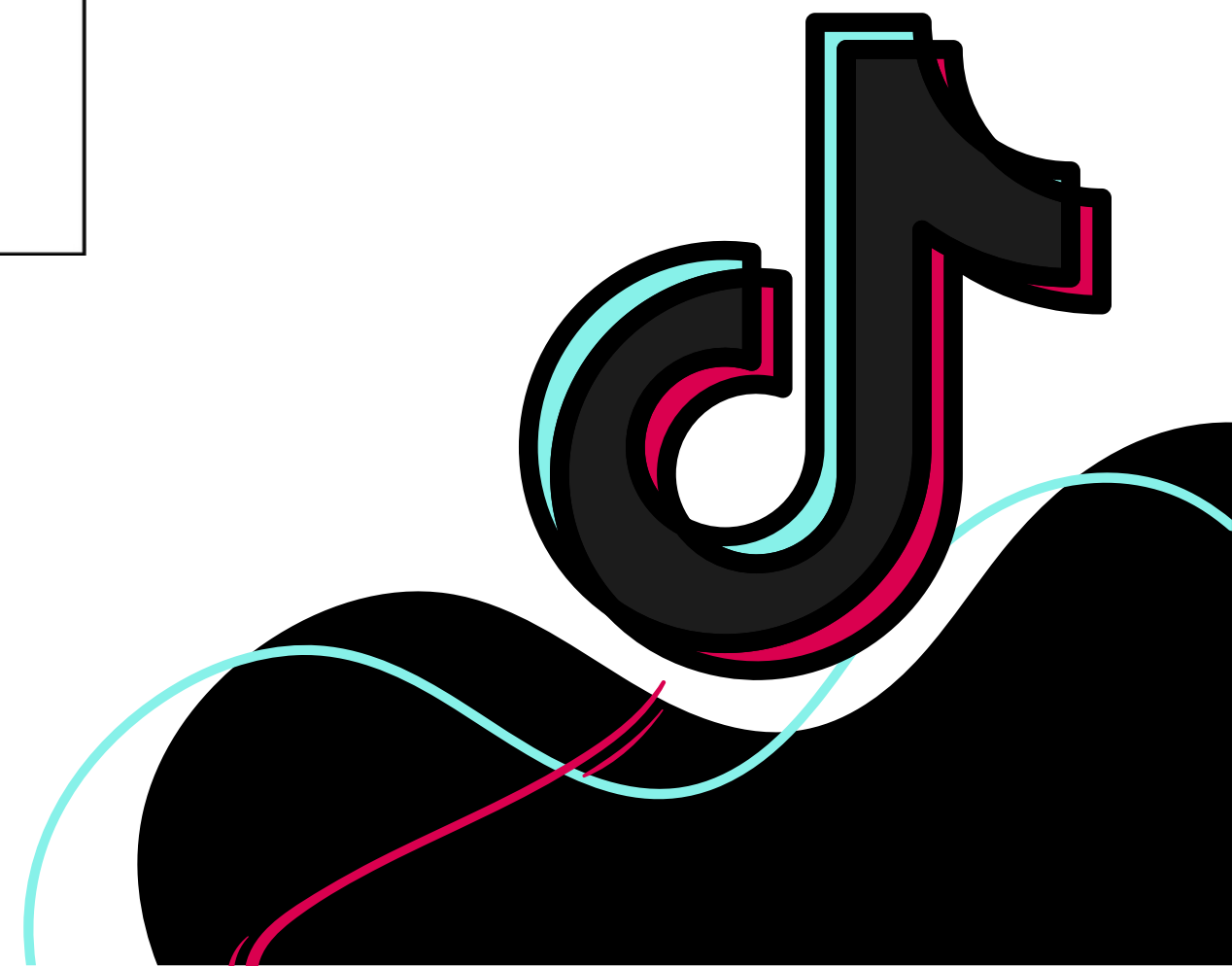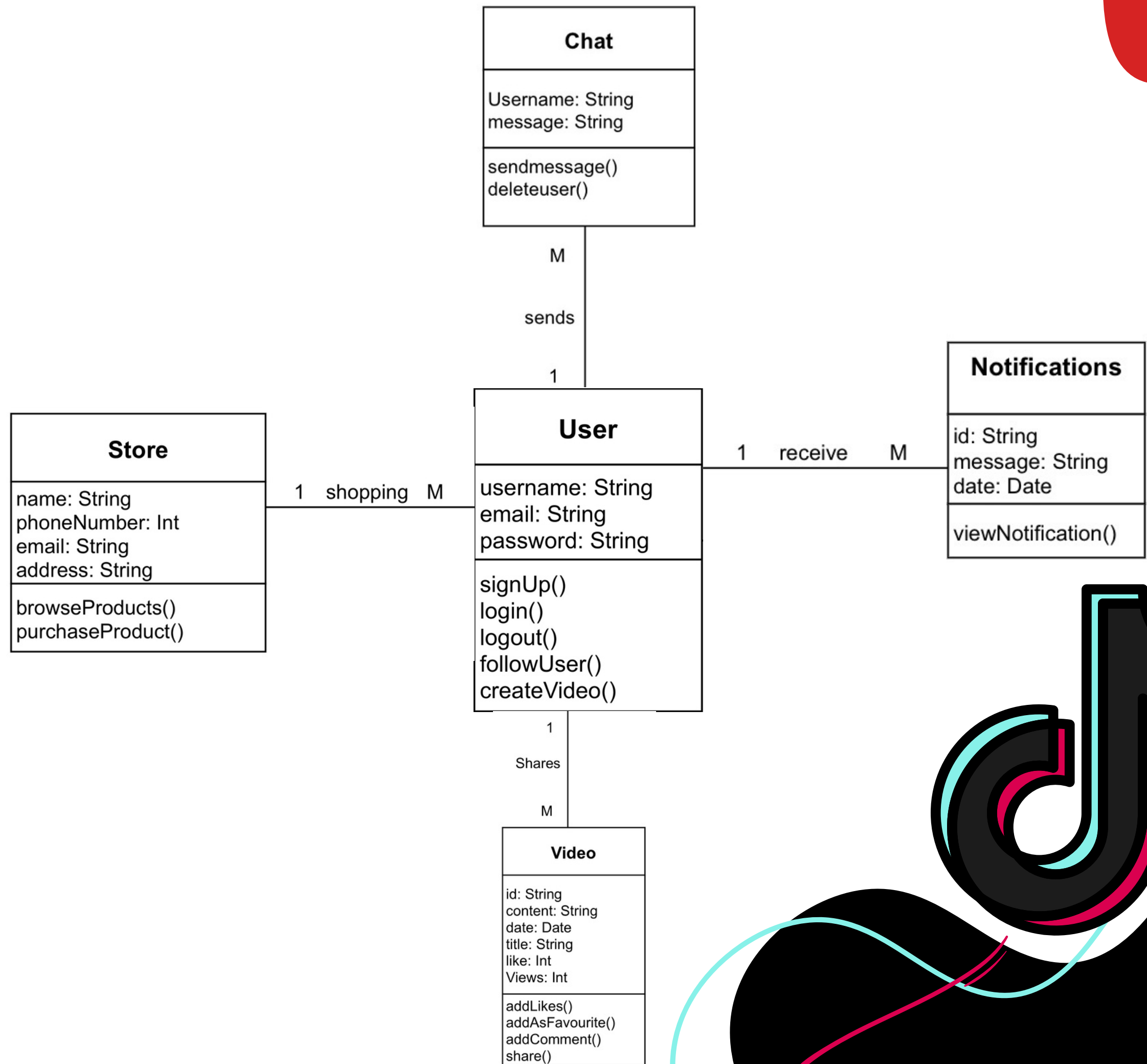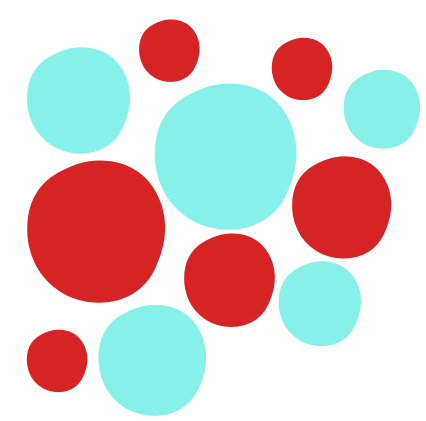A class diagram will represent the classes, attributes and methods that appear in a system, as well as the relations between classes, and we've here five classes as shown here:

Chat

Username: String
message: String

sendmessage()
deleteuser()

M

sends

1

User

username: String
email: String
password: String

signUp()
login()
logout()
followUser()
createVideo()

1   receive   M

Notifications

id: String
message: String
date: Date

viewNotification()

Store

name: String
phoneNumber: Int
email: String
address: String

browseProducts()
purchaseProduct()

1   shopping   M

1

Shares

M

Video

id: String
content: String
date: Date
title: String
like: Int
Views: Int

addLikes()
addAsFavourite()
addComment()
share()

at the end... the Tik Tok application is a large and huge application that requires a lot of requirements and complex work, but in this presentation we only showed you the big idea.
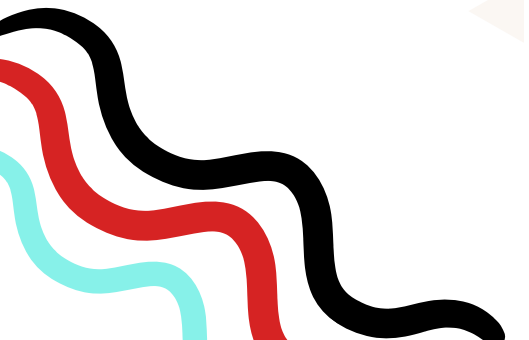
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