Messaging Website Initial Diagrams

Mohamed Emary

January 29, 2024

Use Case Diagram

What normal user can do:

1. Sign Up
2. Login
3. Send Text Message
4. Send Images
5. Search For Messages
6. Delete Messages
7. Read Message in Group Chat
8. Change Profile Picture
9. Update Profile Information (Name, Email, Password)
10. Edit Messages
11. Logout

What admin can do:

1. Sign Up
2. Login
3. Ban/Unban Users
4. Delete Users
5. Delete Messages
6. Update Application Content
7. View System Statistics in a Dashboard
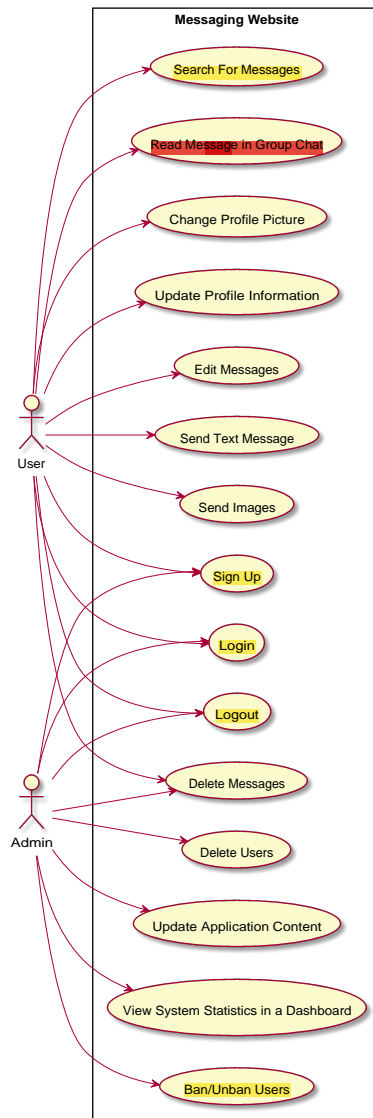8. Logout

Figure 1: Initial Use Case Diagram

User:
Search for chat

Chat list view

Send/Recieve Msg/Send Img

Delete Msg

View chat list

new chat

remove chat

block account

update profile information

Admin:

Sign up
login
logout
application development
ban/unban user
view systen stats in dashboard

Activity Diagram

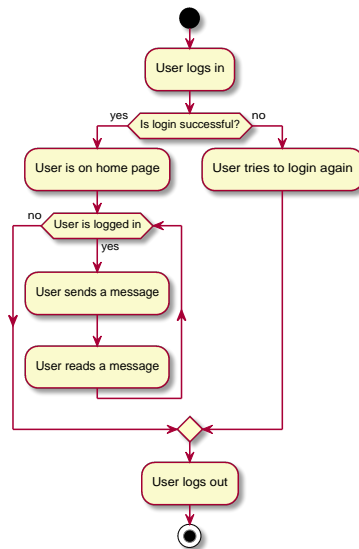We will need an activity diagram for each use case.
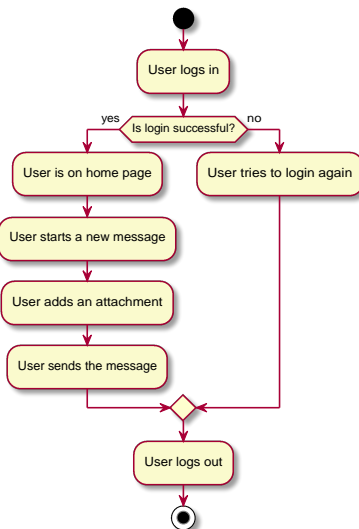
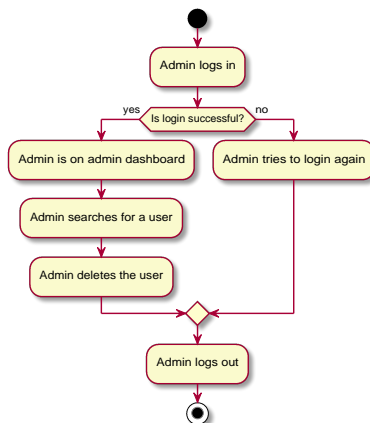Figure 2: Initial Activity Diagram

Figure 3: Initial Activity Diagram

Figure 4: Initial Activity Diagram
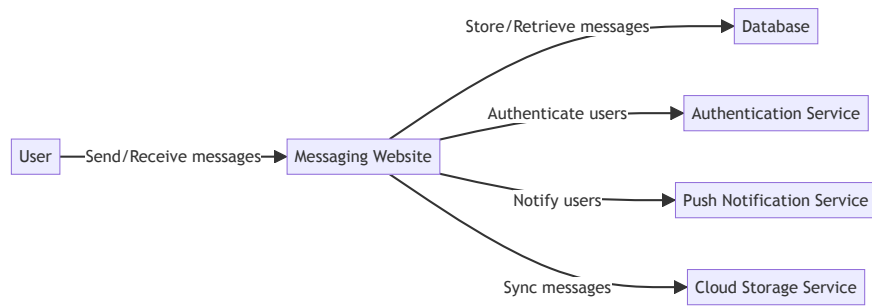
Context & DFD

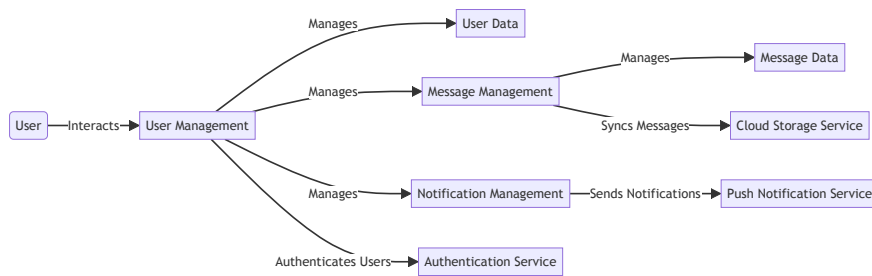Figure 5: Initial Context Diagram

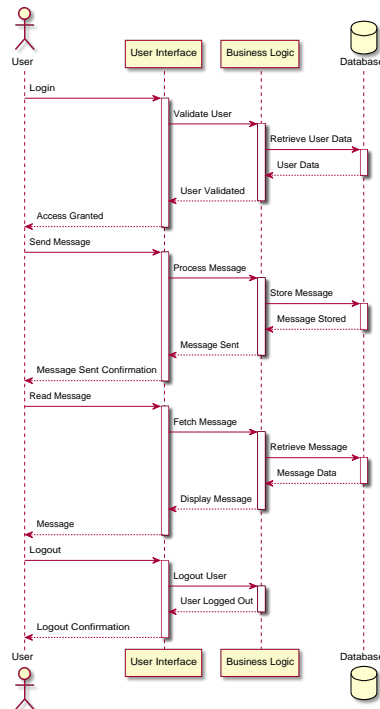Figure 6: Initial DFD

Sequence Diagram

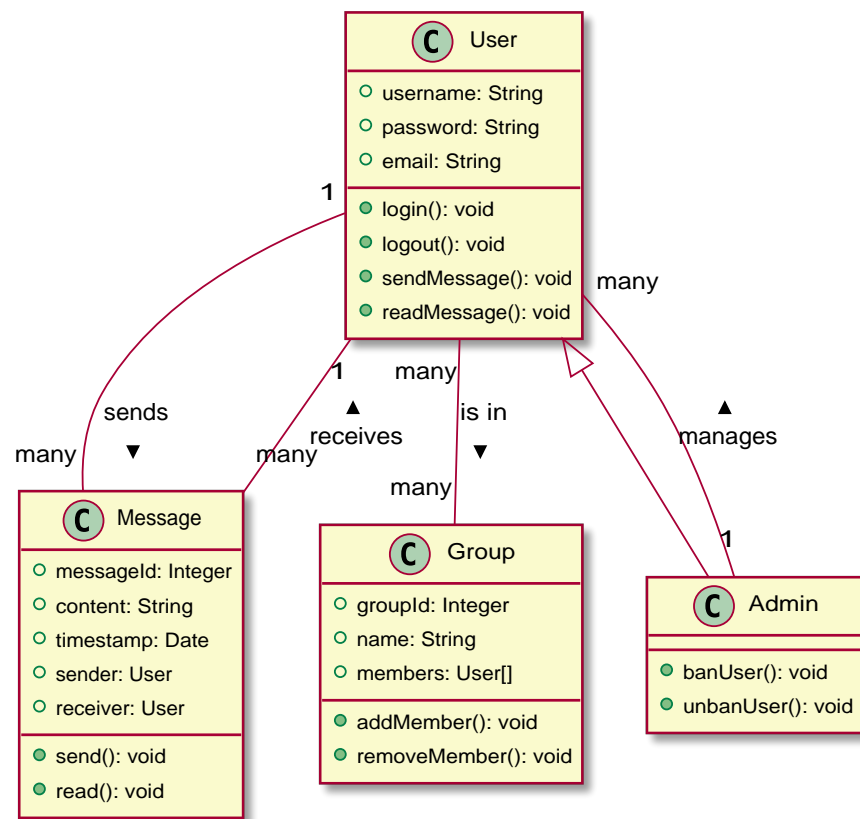Figure 7: Initial Sequence Diagram
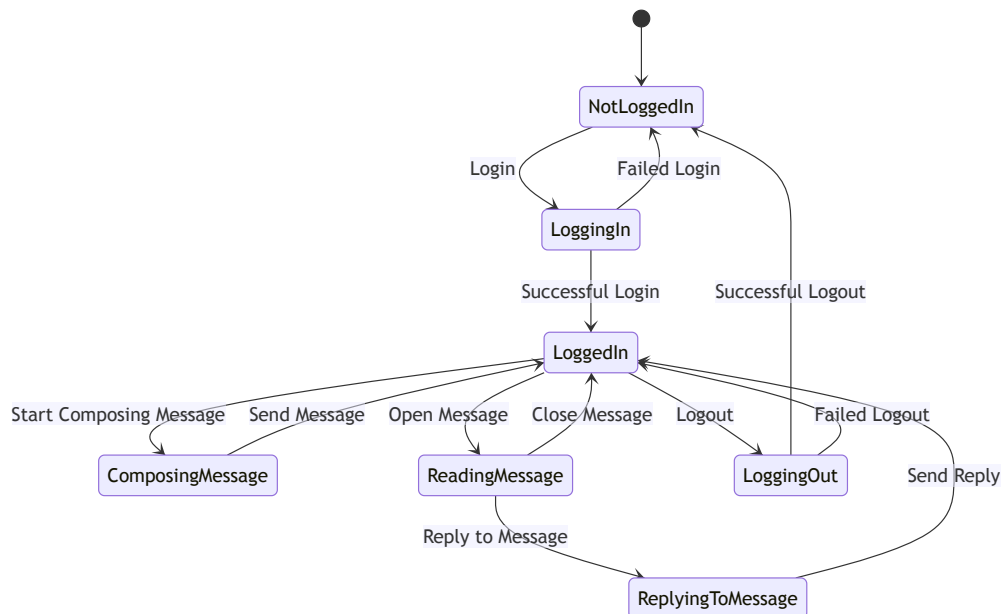
Class Diagram

Figure 8: Initial Class Diagram

State Diagram

Figure 9: Initial State Diagram