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SE Experiment 4

SE EXPERIMENT - 4

Aim: To develop activity diagram & DFD (upto 2 levels) for our case study

Theory:

Steps in activity Diagram are as follows:
→ Start → the activity begins
→ Login or Signup : The user is prompted to either login with their existing account or signup if they are new to the app.

→ If New user : The user does Not have pre-existing credentials, then they are directed to signup process. They provide necessary information.

→ Validated information : The user input is validated by the system to check if given details are acceptable or not

→ Send verification mail : It is a part of security Enhancing method as this step ensures only valid users get access to system functionalities.

→ Verify Identity : The user checks Emails & clicks on verification link to confirm their Identity.

→ Login : The user returns to app & continues with login by inputting credentials.

→ Login successfull : The user is provided with auth token & Successfully can access the app.

→ Show loading page: The user is directed to landing page of circlify app where they can view their feed, post content, interact with other users post & etc.

⇒ Swimlane diagram:

○ user Swimlane: It represents the actions & interactions performed by user such as Login attempts etc.

• System Swimlane: It represents actions performed by circlify app. such as. verifying credentials, storing information etc.

•. Admin Swimlane: It represents actions performed by admin on the system. This includes monitoring the data on platform, deleting & Eliminating fraudulent accounts with misleading content.

Conclusion: Thus we created & represented the various Elements of circlify using Activity, swimlane & DFD diagrams.
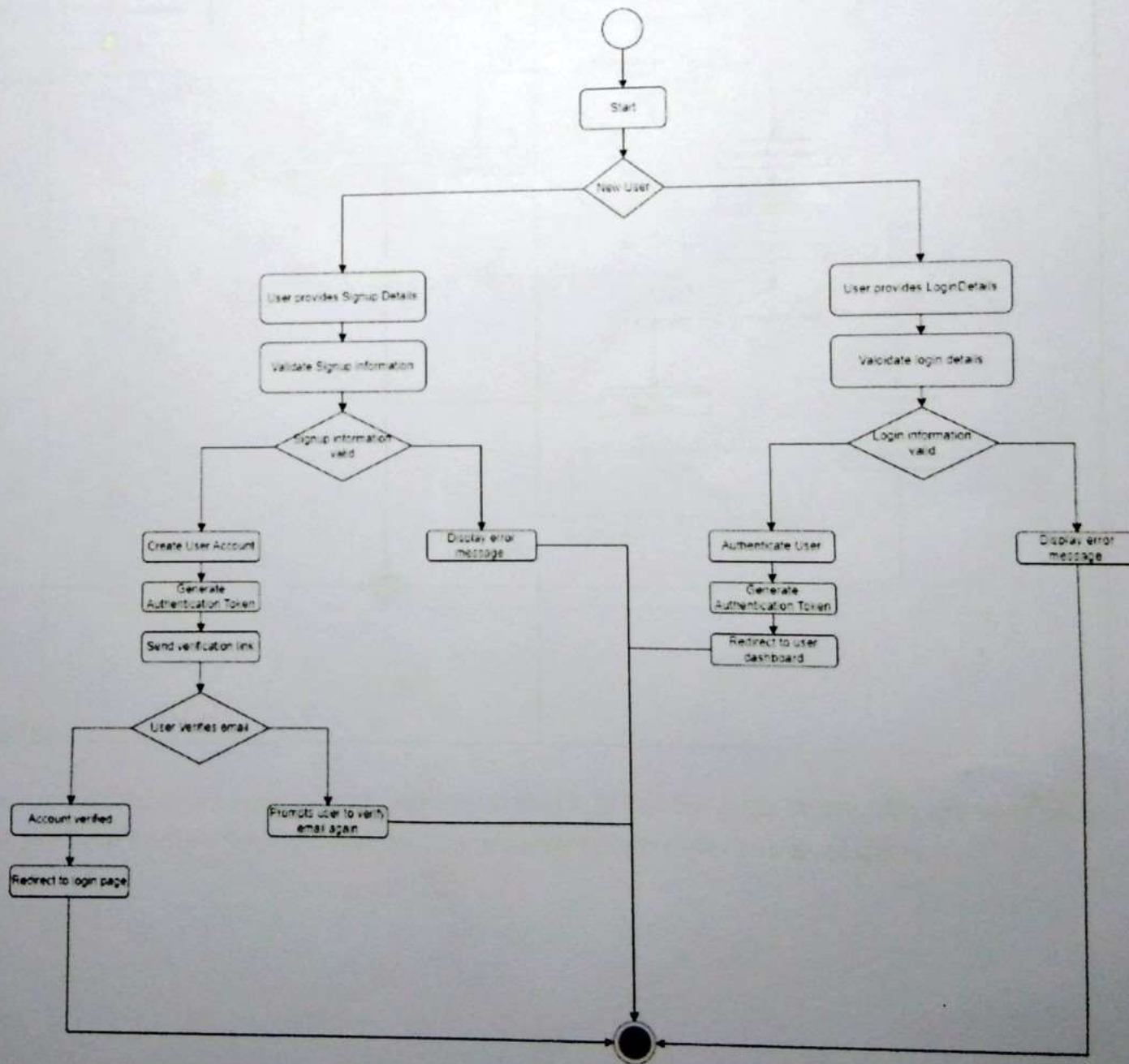
Experiment 4

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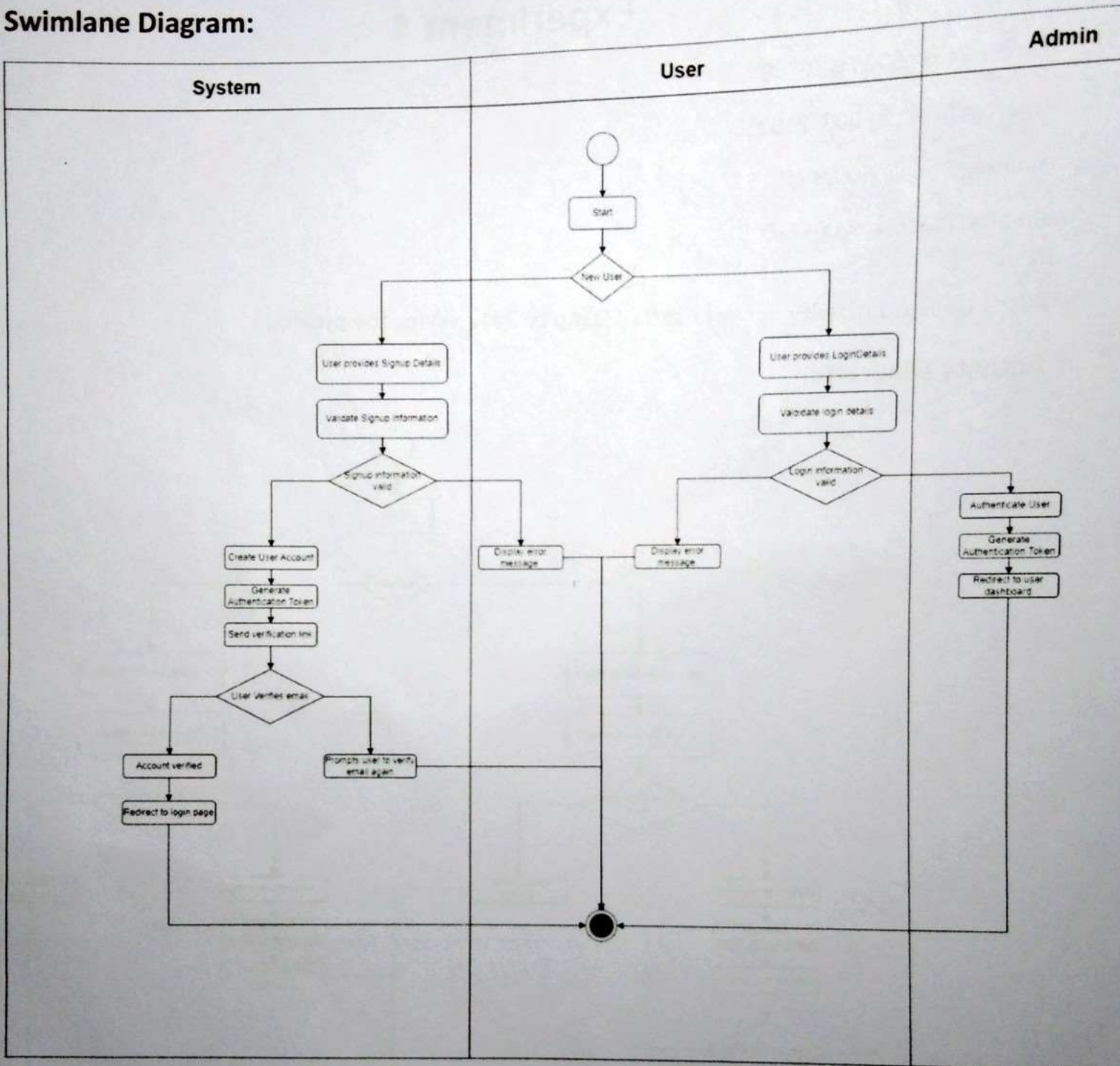
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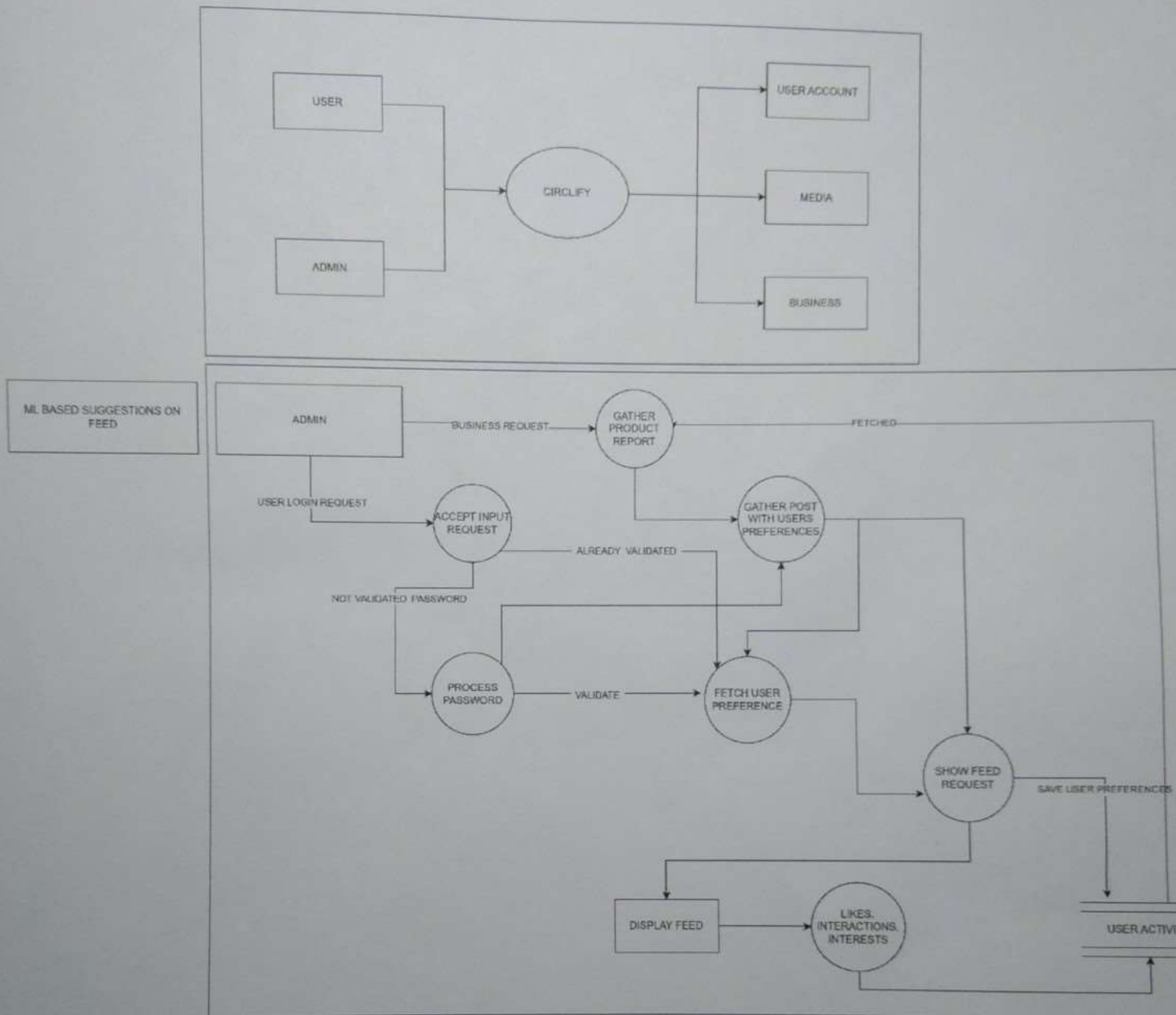**Aim:** Develop Activity diagram and DFD (up to 2 levels) for the project.

Activity Diagram:

Swimlane Diagram:

System	User	Admin

Start

New User

User provides Signup Details

User provides LoginDetails

Validate Signup information

Validate login details

Signup information valid

Login information valid

Authenticate User

Create User Account

Display error message

Display error message

Generate Authentication Token

Generate Authentication Token

Send verification link

Redirect to user dashboard

User Verifies email

Account verified

Prompts user to verify email again

Redirect to login page

DFD:

Conclusion:

Thus, we are able to draw Activity and Swim lane diagram for our case study. We are also able to depict the flow of data through various processes through different level DFDs