Project Design Phase-II

Data Flow Diagram & User Stories

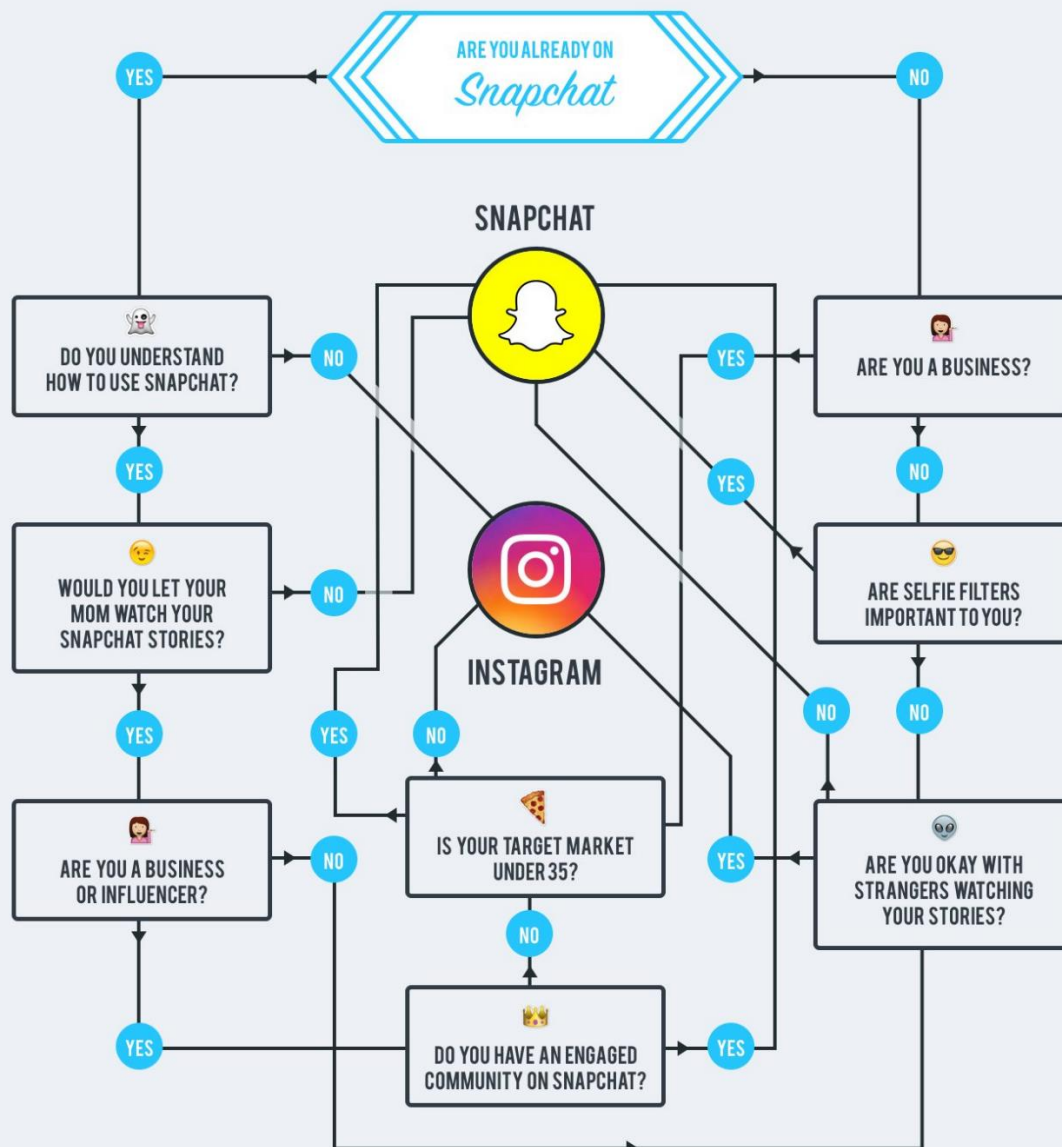| Date	25 Oct 2023
Team ID	NM2023TMID09233
Project Name	Creating an Sponsored Post for Instagram

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Example: (Simplified)
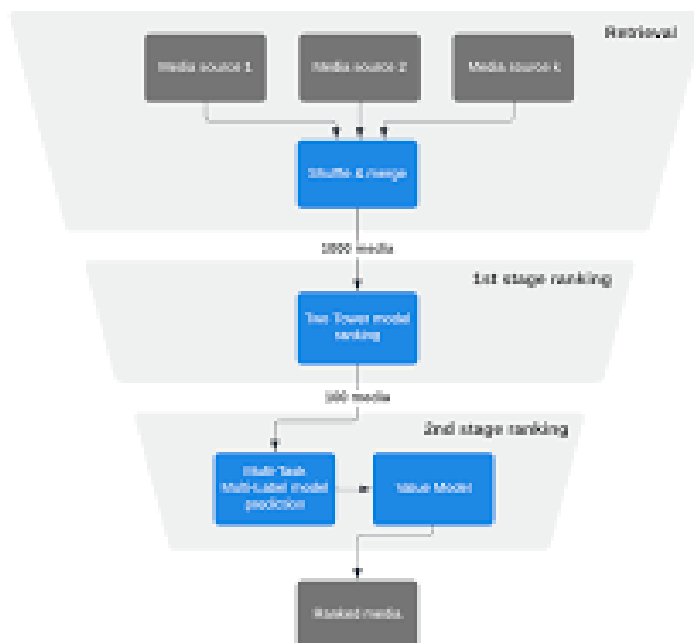
Example: DFD Level 0 (Industry Standard)

SHOULD I USE INSTAGRAM STORIES?

ARE YOU ALREADY ON *Snapchat*

YES → ← → NO

SNAPCHAT

DO YOU UNDERSTAND HOW TO USE SNAPCHAT? — NO

YES

WOULD YOU LET YOUR MOM WATCH YOUR SNAPCHAT STORIES? — NO

YES

ARE YOU A BUSINESS OR INFLUENCER? — NO

YES

INSTAGRAM

IS YOUR TARGET MARKET UNDER 35? — YES — NO

NO

DO YOU HAVE AN ENGAGED COMMUNITY ON SNAPCHAT? — YES

ARE YOU A BUSINESS? — YES

NO

ARE SELFIE FILTERS IMPORTANT TO YOU? — NO

YES

NO

ARE YOU OKAY WITH STRANGERS WATCHING YOUR STORIES? — YES

Later

LATER.COM

1. User Registration and Profile Management:
   - External Entities: Users
   - Process: User Registration and Profile Management
   - Data Stores: User Profile Data (Name, Username, Email, Password, Profile Picture)
   - Data Flows:
     - User registers and provides profile information.
     - User updates profile information.
     - User reports a problem with their account (e.g., account access issues, forgotten password).
2. Posting Content:
   - External Entities: Users
   - Process: Posting Content
   - Data Stores: User Posts, User Comments, User Likes
   - Data Flows:
     - User creates a new post.
     - User comments on a post.
     - User likes a post.
     - Users report inappropriate content or issues with posts (e.g., harassment, spam, or misinformation).
3. Feed Generation and Discovery:
   - External Entities: Users
   - Process: Feed Generation
   - Data Stores: User Follows/Followers, User Activity, User Preferences
   - Data Flows:
     - The system generates a personalized feed for each user based on their preferences and followed accounts.
     - Users discover new accounts and content based on recommendations and hashtags.
4. Messaging and Notifications:
   - External Entities: Users
   - Process: Messaging and Notifications
   - Data Stores: User Messages, User Notifications
   - Data Flows:
     - Users send direct messages to each other.
     - Users receive notifications about new likes, comments, or followers.
     - Users report spam or abusive messages.
5. Reporting and Moderation:

- External Entities: Users, Instagram Moderators
- Process: Content Reporting and Moderation
- Data Stores: Reported Content, Moderation Actions
- Data Flows:
    - Users report problematic content or accounts.
    - Instagram moderators review reported content and take appropriate actions (e.g., removal, warnings, or account suspension).

6. Account Security:
- External Entities: Users, Instagram Support
- Process: Account Security
- Data Stores: User Authentication Data, Security Logs
- Data Flows:
    - Users may experience account security issues (e.g., unauthorized access).
    - Users contact Instagram support for account recovery.