

TASK #3 SERVICE *858# ANALYSIS & IMPLEMENTATION

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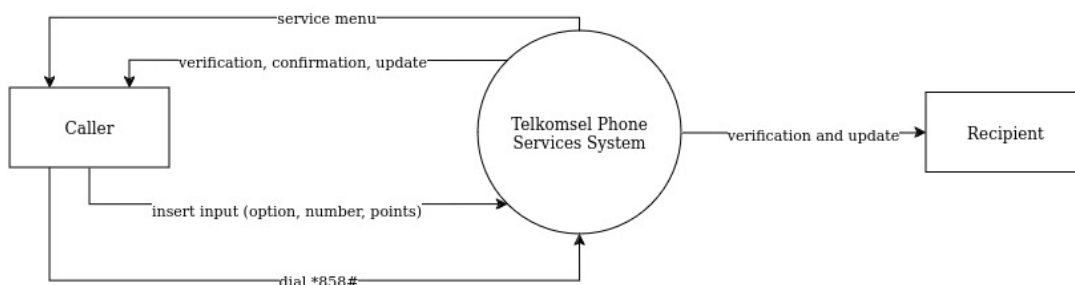
Source Code

<https://github.com/GarudaEagle2246/Task-ISP>

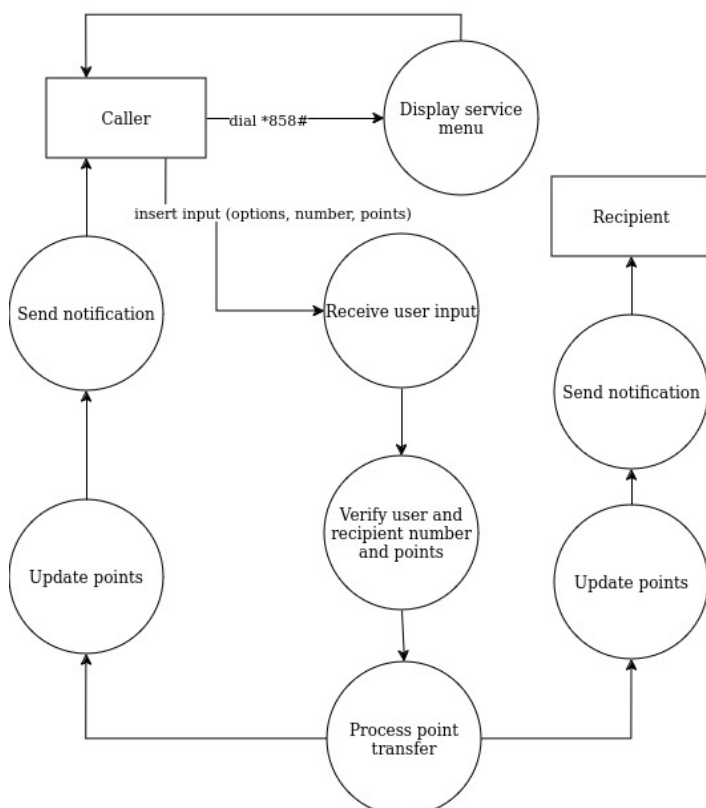
<https://github.com/GarudaEagle2246/Task-ISP-ReactNative>

DFD (Data Flow Diagram)

Level 0 DFD



Level 1 DFD



PSPEC

Process Transfer Points to Another User

Description:

This process enables a user to transfer points to another user via the USSD (*858#) service. It captures the user's input, validates the information, checks balance, and completes the transaction.

Input:

- USSD code (*858#)
- User's selection of "Transfer Points" from the menu
- Recipient's phone number
- Number of points to transfer
- User confirmation of the transfer

Output:

- Success or failure message after the transaction
- Updated point balances for both sender and recipient
- SMS/USSD confirmation to both users

Process Logic:

1. Dial USSD Code:

- User dials *858#.
- The system initiates the USSD session and retrieves the available menu options, including "Transfer Points".

2. Select "Transfer Points":

- The user selects the "Transfer Points" option from the menu.
- The system prompts the user for the recipient's phone number and the number of points to transfer.

3. Enter Recipient and Points:

- The user inputs the recipient's phone number and the number of points to transfer.

- The system validates the phone number and points:

- Ensure the phone number is valid.

- Ensure the user has sufficient points for the transfer.

- If valid, display the transfer details for confirmation.

4. Confirm Transfer:

- The user confirms the transfer.

- The system deducts the points from the sender's account and credits them to the recipient.

- If the transaction is successful, a confirmation message is sent to both users.

- If any validation fails (e.g., invalid phone number, insufficient points), an error message is sent to the user, and the process terminates.