Task:

Register membership

Environmental model specification
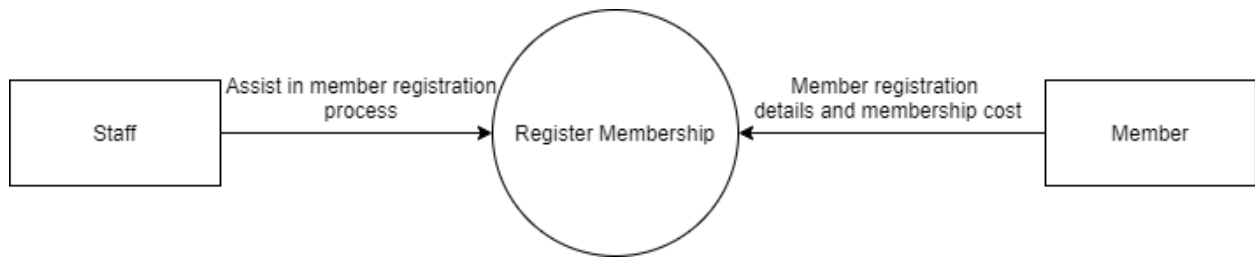

Figure 1 Context Level diagram (Register a member)

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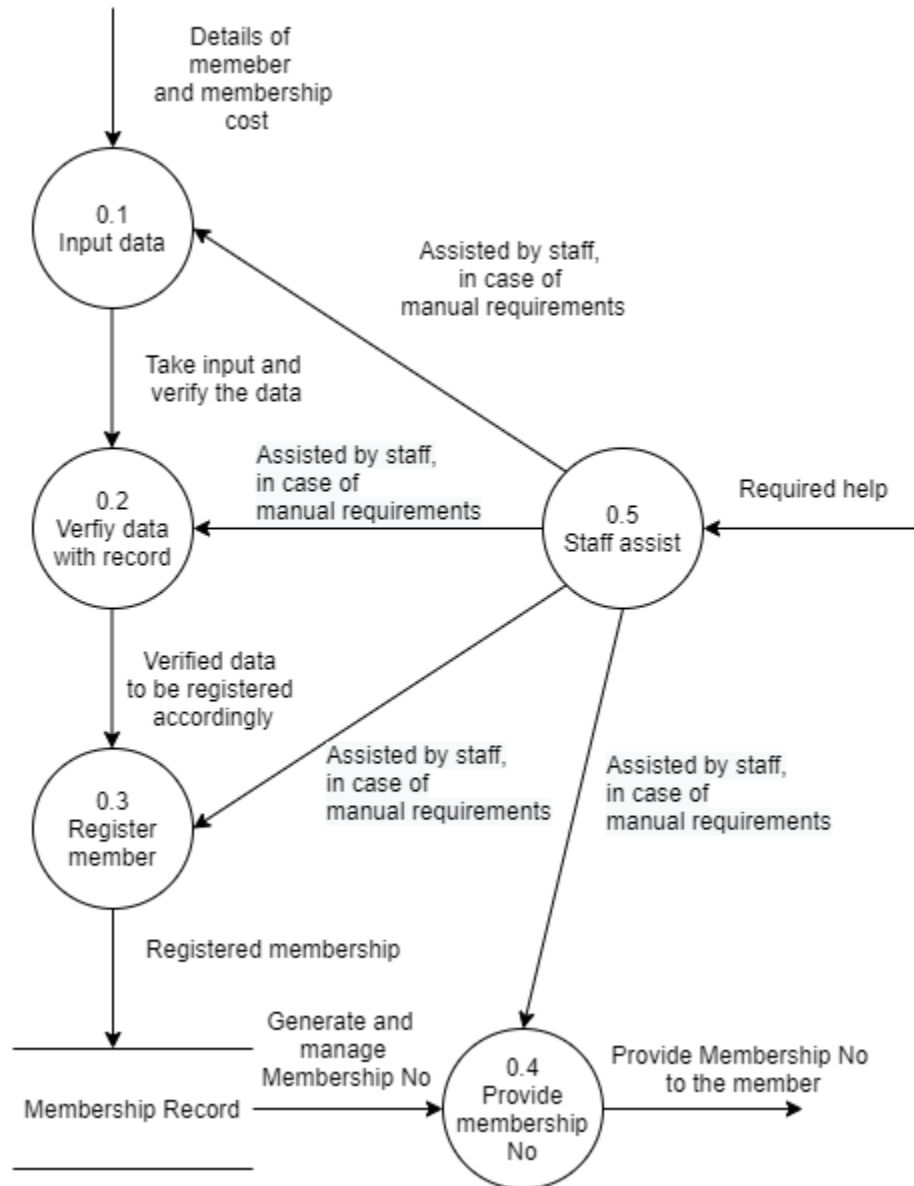**Internal Model Specification for the system:**
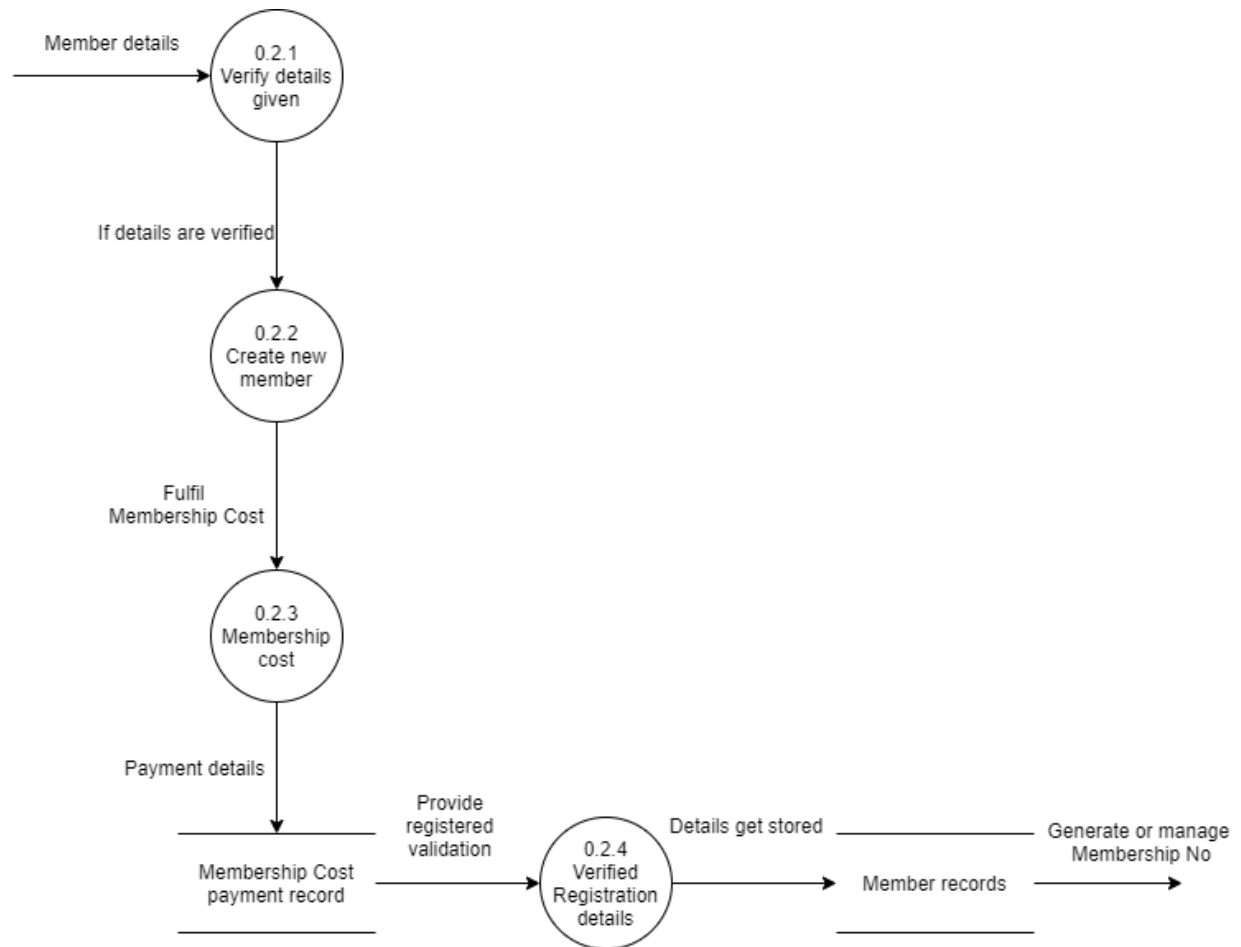

Figure 2 Level 1 DFD (Register a member)

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Figure 3 Level 2 DFD (Register a member)

Member details → 0.2.1 Verify details given

If details are verified

0.2.2 Create new member

Fulfil Membership Cost

0.2.3 Membership cost

Payment details

Membership Cost payment record

Provide registered validation

0.2.4 Verified Registration details

Details get stored

Member records

Generate or manage Membership No

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Design Specification:
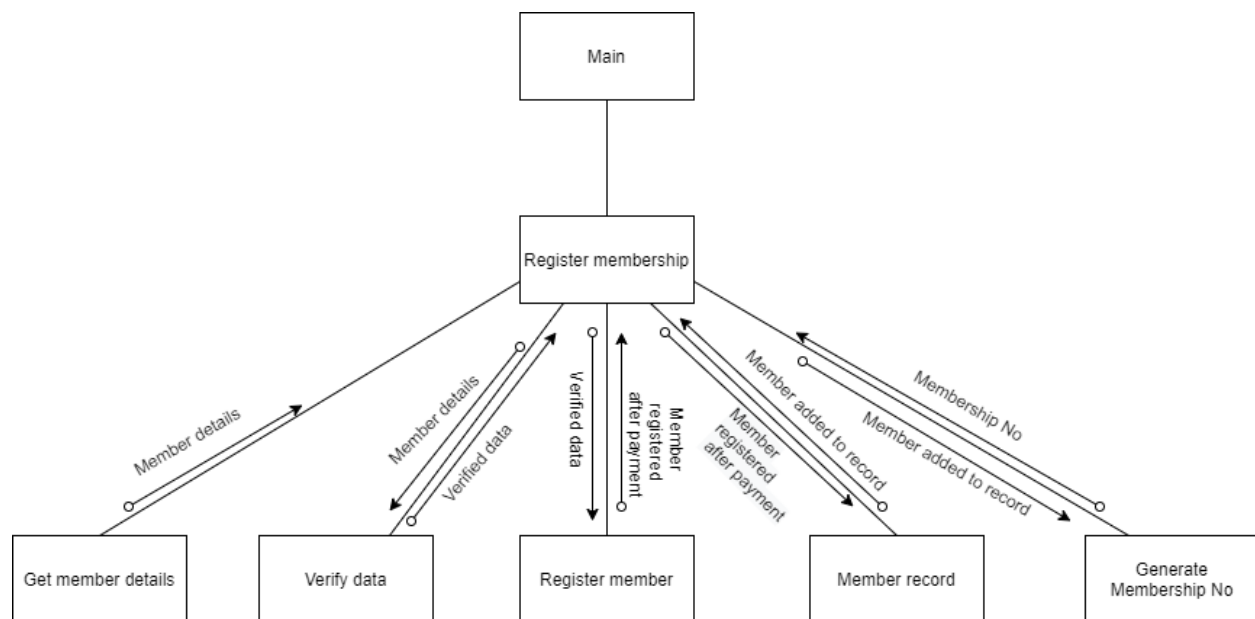
Structure chart

Figure 4 Structure chart (Register a member)

Module Specification

Module name: Register membership

Purpose: To take input of member details and verify the details given. Also take membership cost and add details to payment record as well as to member record. The module generates a Membership No after fulfilling the proper registration process.

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Pseudocode:

Variable firstName = input ("Enter the first name") (Compulsory)

Variable lastName = input ("Enter the last name") (Compulsory)

Variable dateOfBirth = input ("Enter birth date") (Compulsory)

Variable address = input ("Enter address") (Compulsory)

Variable number = input ("Enter contact no") (Optional)

Variable email = input ("Enter email") (Compulsory)

Variable membershipCost = input ("Please pay the pre-defined cost mentioned above")

if (membership cost is paid) {

       Call registrationProcess.

       Output ("Successfully registered.") //validation of registration

       Output ("Membership number is: …")

}

Else {

       Output ("Please pay the membership cost")

}

Input Parameter: Member information

Output Parameter: Membership No

Global variables: All variables are set as global variables

Local Variables: Null

Calls: registrationProcess method which registers and stores information in the record.

Called by: Main method

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Description:

In the register membership module, firstly, the member approaching for membership fills in the details which include their name, date of birth, address, phone number and email. The entered detail is then verified. After the successful verification process, the member is asked to pay the membership cost. If the member fulfils the cost criteria, the payment is added to payment record and the member gets registered. When the member is registered successfully, a validation text that the member has been registered is provided and the member is added to member record. After the member gets added to member record, a particular Membership No is provided to that member.

Assumptions:

i) Staff help in entering member details manually if any problem occurs when members contact staff while they face problems in the registration process.
ii) Membership cost is pre-defined. The member must enter the correct amount asked by the system to get the payment done.
iii) Membership No acts as a number to login to the account.

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