

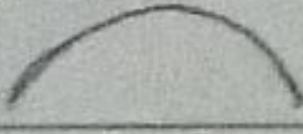
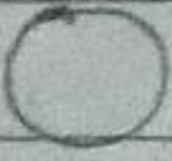
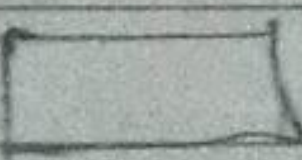
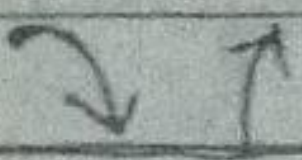
EXPERIMENT NO. 6

AIM: Draw DFD (upto 2 levels) and prepare a Data Dictionary for the project.

THEORY:

- Data Flow Diagram (DFD) - It is a traditional visual representation of information flow within system. A neat and clean DFD can depict right amount of system graphically. It can be manual, automated or a combination of both.
- It shows how data enters and leaves system, what changes information and where data is stored.
 - Objective is to show shape scope and boundaries of system as a whole. It may be used as a communication tool between a system analyst and any other part who play part in order that acts as a starting point.

Standard system symbol for DFD-

-  Data Flow used to connect processes to each other
-  Process that performs some transformation of input data to yield output data.
-  Sources of sink inputs/sink of system outputs
-  Data store is repository of data, arrow heads net inputs & net outputs.

Teacher's Signature

levels in DFD - DFD may be used to perform system at any level of abstraction. It may be partitioned into levels that represent information and functional detail. Levels are 0, 1, 2 or beyond.

Data Dictionary -

- It is a file or set of files that includes a database metadata. It holds records about other objects in database.
- It is essential component of any relational database. Any database administrators interact with data dictionary. It includes name of data item, aliases, description, related data items, range of values, data structure definition.

Application -

- can be used to create listing of all data items
- can be used to create ordered listing of subset of data items.
- can be used to find data item name from description
- can be used to design software & test cases.

CONCLUSION: Thus, through this experiment, we understood the concept of DFD and data dictionary and implemented the same to execute our project (Gym Management System).

Teacher's Signature.....

EXPERIMENT 6

AIM: Draw DFD (up to 2 levels) and prepare a Data Dictionary for the project

Project Name: GYM Management System

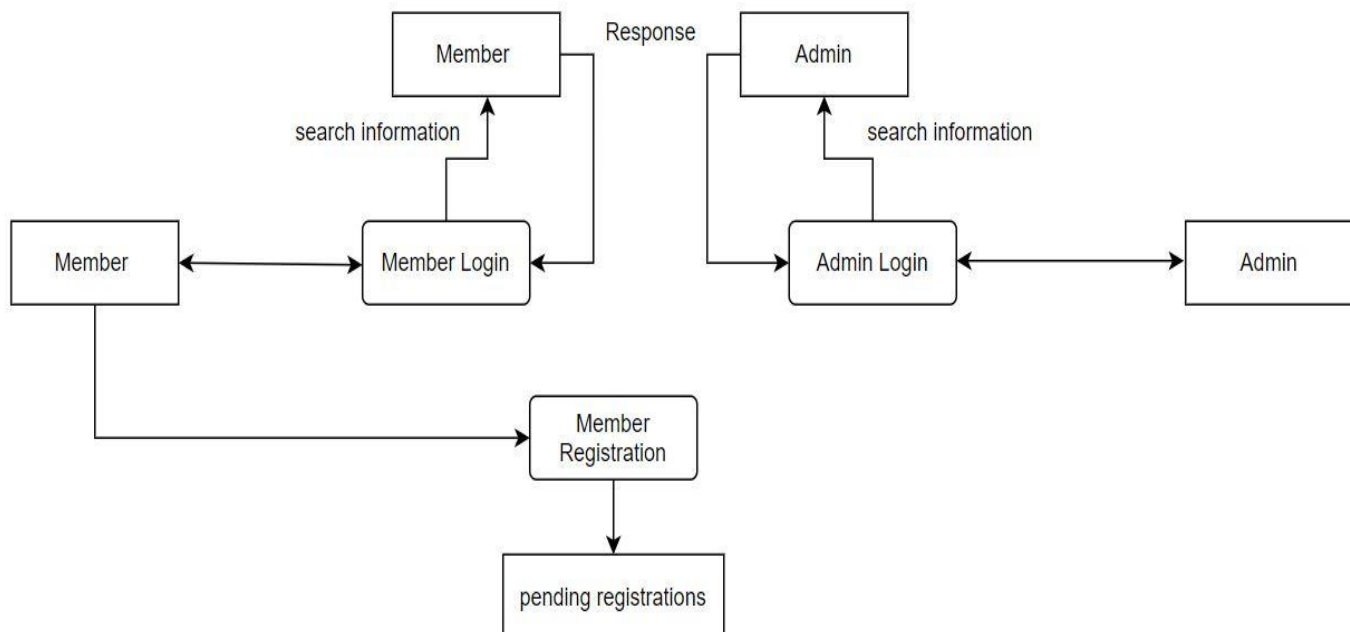
Team Members: Gunjan Bhawsinghka (04), Pratik Chainani (06),
Laveen Dawani (10)

Data Flow Diagram (DFD):

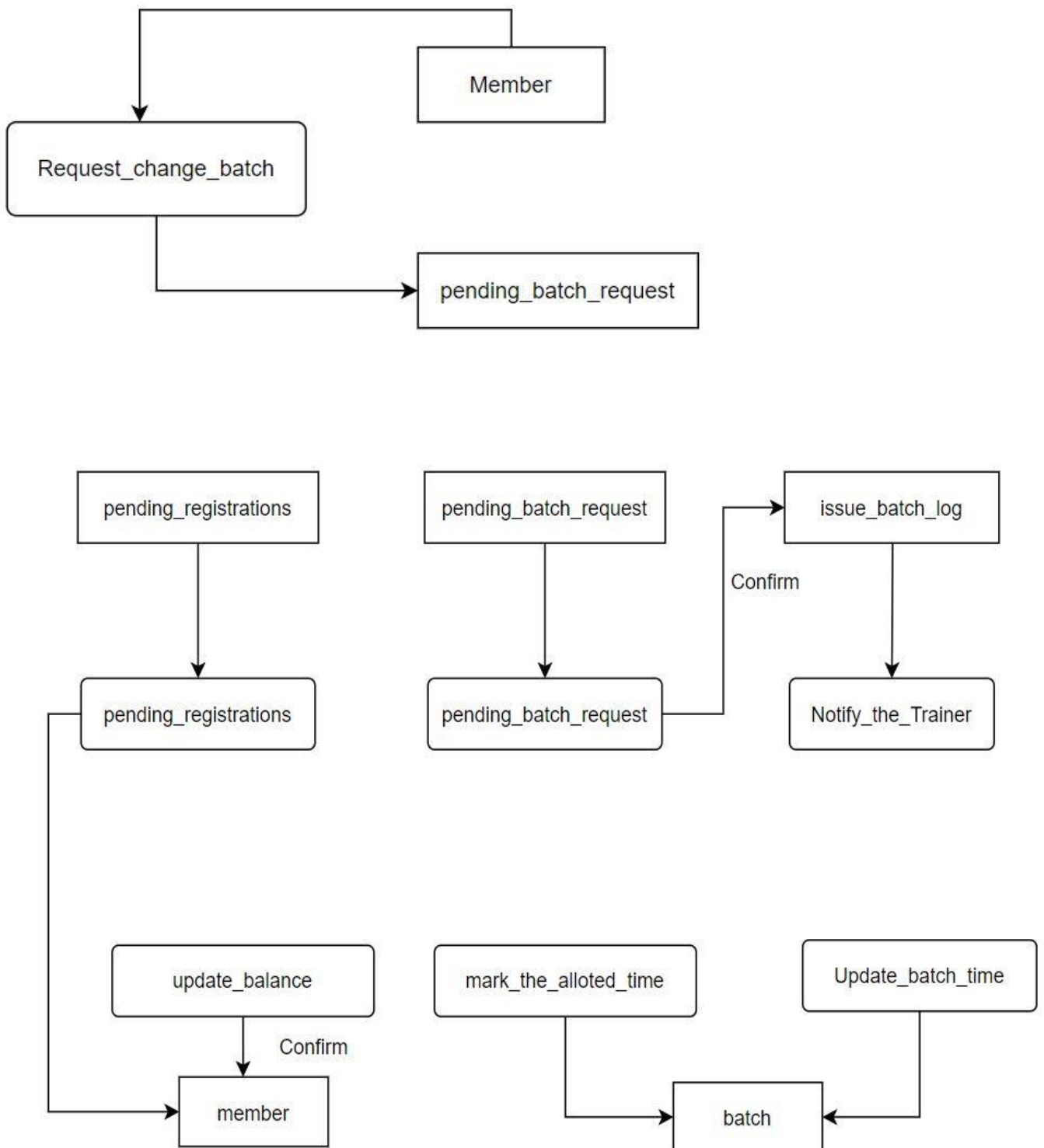
1) LEVEL 0 DFD:



2) LEVEL 1 DFD:



3) LEVEL 2 DFD (MEMBER):



Data Dictionary:

Entity name	Entity description	Column name	Datatype	Length	Example
Member	Members in the GYM	Mem_id	int	5	100
		password	varchar	10	abcd1234
		Mem_name	varchar	30	Raj
		purpose	varchar	50	height gain
		Body_id	int	5	12
		Address	varchar	100	51, Moksh Villa, Mumbai 431001
		email	varchar	20	raj@gmail.com
		phone_no.	bigint	10	9898989898
Membership	Memberships available in GYM	Membership_ID	int	3	4
		entry_date	date	yyy-mm-dd	01-01-2021
		expiry_date	date	yyy-mm-dd	01-04-2021
		Membership_rate	int	7	5000
		Membership_duration	int	1	3
		Membership_facilities	varchar	100	cardio,gyming,massage,trainer,diet plan
Body Type	Body type of member	Body_id	int	5	12
		age	int	3	24
		height	decimal	5	5.9
		weight	decimal	5	78
		sex	enum('M','F','O')	1	male
Payment	Membership Payment paid by member	Pay_id	bigint	10	5984521
		Mem_id	int	5	100
		DateTime stamp	timestamp	YYYY-MM-DD HH:MM:SS	05-04-2021 02:02
		amount	int	7	5000
Batch	Batches available in GYM	Batch_id	int	3	8
		start time	time	HH:MM:SS	10:30 AM
		finish time	time	HH:MM:SS	11:30 AM
Trainer	Trainers in the GYM	Trainer_id	int	3	18
		Trainer_name	varchar	30	Santosh
		Trainer_exp	int	2	5
		Address	varchar	100	205, Hill view apt, Mumbai 431002
		email	varchar	20	santosh@gmail.com
		phone_no.	bigint	10	9898989898
Equipment	Equipments available in GYM	equipment_no	int	3	2
		equipment_type	varchar	20	Treadmill