# Task 3 [II] Feedback Response

# ER Diagram working mechanism evaluation

In above figure 10 in feedback response page 1, ER Diagram for academic portal is drawn and it consists of several entities represented as rectangle. Each entities has their attributes and represented with oval. And finally relation between entities also known as relationship are represented with rhombus shape. All the member of Phoenix College is represented by member entity. Members are categorized into two categories named student and teachers. Both types of member shares some common attributes like name, age, MID, address, image, email but also has individual attributes like teachers has experience and qualification attributes. All users, teachers, students have member id as an attributes. User of the system is represented by user entity and has attributes like member id, user id, password, and recovery email. User entity has relation with user type entity named “of type”. Similarly User has relation with other entities such as forum, member and faculty named “manages”.

File Entity has attributes of File id, name, owner and upload date. User has relationship with file entity named “share” which means user can share files. Similarly, there are entities like blog, comment, assignments and class which has relation with user entity. At last notification entity has attributes of notification id, type and time and has relationship with user entity named “receives” which means user can receive notification and also has relationship with notification type.

To carry out system investigation, ER diagram tools has represented all required entities, their attributes and their relation with other entities. This system investigation can be used to develop relationship database management system for the portal.

# Context Diagram working mechanism evaluation

This system investigation has used context diagram tool to define system boundaries. In context diagram figure 11 (Feedback response page 3), system is represented by circle, external entities are represented by rectangle and data flow is represented by arrow. Context diagram of the academic portal has system called academic portal represented by a circle. There are several external entities and are linked to the system. Student external entity is linked with the system and send request such as creating blog, discussion, comments, messaging, search etc. which is represented in dotted box.

Similarly, teacher external entity can send request to the system regarding blogs, assignments, discussions, surveys etc. Another external entity named administrator can send requests to system and manage users, forums, discussions, groups, faculties, class etc. Exam and account department external entities sends notices to the system. And at last database external entities stores information and files.

This context diagram of academic portal helps to system investigate to understand the working of the whole system at highest level. This investigation helps to set working boundaries of the system.

# Dataflow Diagram working mechanism evaluation

In figure 12 (Feedback Response page 5), Level 0 and Level 1 data flow diagrams (DFD) are drawn for academic portal. In this system investigation, level 0 DFD, external entities like student and teachers sends request to the system and receives response. Data store is linked with system to store system information.

In level 1 Data Flow Diagram there are several sub processes like user management, login system, class management etc. In Authorization process 1.0, registered members tries to login using credentials. System retrieve login information from login data store. System allows login success to members with valid credentials. In Assignment management system 4.0, teacher members upload files and system store them in uploaded assignment data store.

Similarly, using same system, students upload submission for the system and then system stores the files into assignment submission data store. User can create and maintain discussion and comments using discussion system 5.0 and comment system 6.0 respectively. Each system stores their data in the respective data stores. In Files management system 7.0, user can upload and download file. System stores the uploaded files into the file data store. And at last administrative users can create and maintain faculties and classes using faculty management system 8.0 and class management system 9.0 respectively. System stores their data in respective data stores.

This DFD tool is drawn for academic portal is carry out to investigate the system clearly demonstrates core process and sub processes in the system and external entities. This tool illustrates how data is to be flowed in the system. This DFD provides lower level structure of the system.