

DBMS Digital Assignment – 1**Entity relationship model (ER)**

Scenario: FORUM – The answer to every question.

Tool used : yEd Graph Editor

Scenario description

“Forum” is a platform upon which people from all over the world ask and answer questions on a wide variety of topics.

Each user will have a unique user ID. The home page for the user will display the user level, points obtained, remarks from administrators and/or those who have read his/her posts. All users will have a profile containing the name, nickname, gender, birthdate, age and contact details like email id and phone numbers. The home feed will provide for forum posts, chosen topic questions and the answers by other users. By default the feed is filled with the stories and contents which are highly appreciated. There will also be occasional posts about topics and matters “Forum” thinks you’d be interested in. At any time a user can add topics that he/she wishes to see more of. A user can up-vote answers that he/she finds helpful or interesting. The up-votes help the community to become better. A forum user will have other forum users who he/she follows and will instead be followed by other users as well. Then, whenever a user up votes an answer or comments, or provide an answer, their followers will see it in their feeds. Senior users of the “Forum” will be made moderators of certain forum sections by the “Forum” administrators. Moderation policy can be harsh on negative activity and trolling. So basically, all users must be respectful to others responses. “Forum” employs a policy by the name of BNBR. It stands for “Be Nice Be Respectful.”

When a user sees a question he/she wishes to answer, they can feel free to post on the forum. One only needs to have an account before engaging fully with the community. The post uploaded by each user is given a unique post number. Further, details like post time and content are to be stored. Content will be published on the forum, for others to see. Statistics on the post will be gathered – views, upvotes, downvotes and shares. Each post can have any number of replies. An overview of the post should display the the number of replies/comments on the post and the last comment.

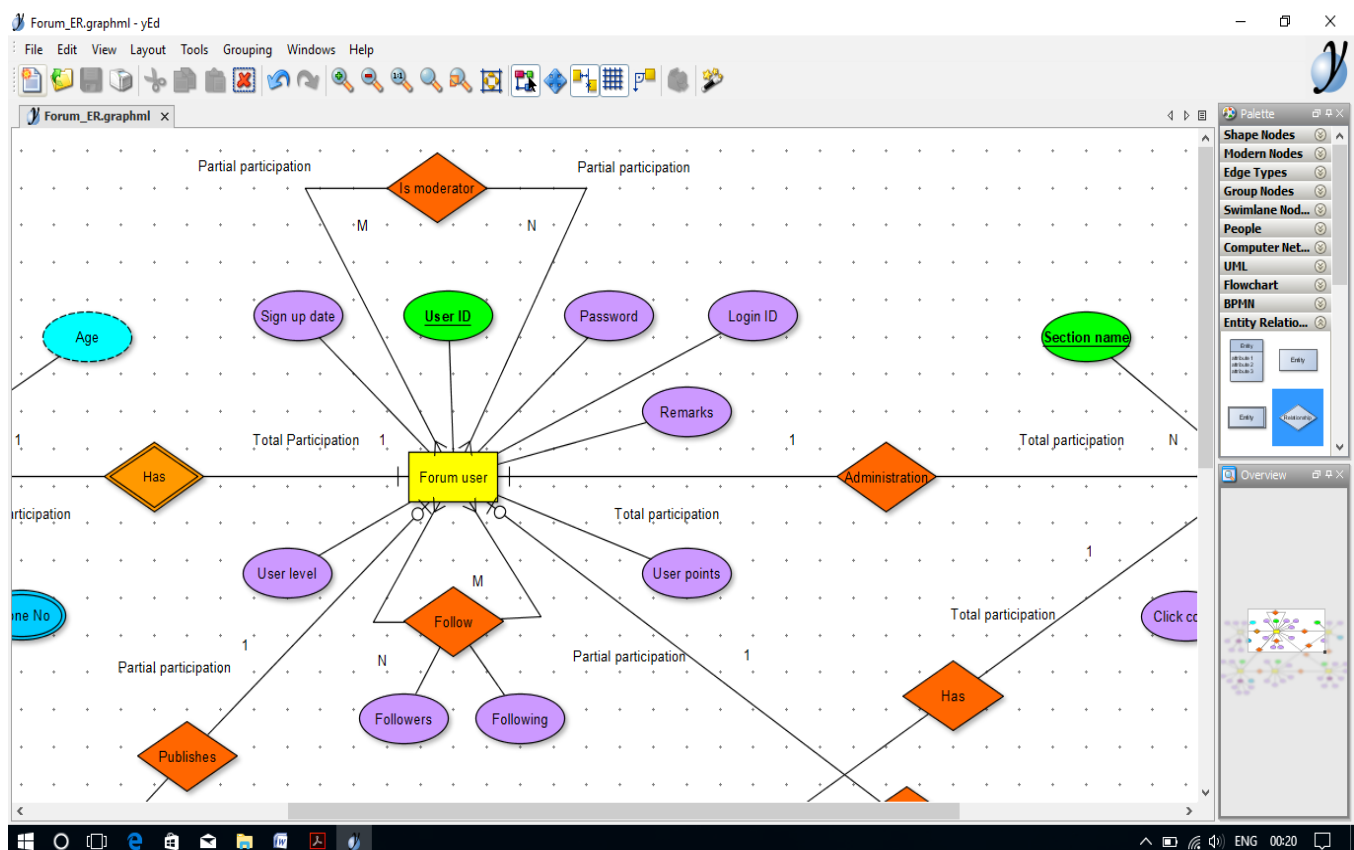
The “Forum” is divided into many sections and the sections can be identified by the unique section names. The forum section must have statistics such as number of posts, number of clicks. The forum

sections will have moderators to administer the activity by users on the forums. A forum section can have multiple moderators.

Under a “Forum” section, there are multiple topics differentiated by the titles of the topics. Each forum topic will have an appropriate poster, emotion based on the topic, status of the topic (active/dormant) and statistics like hit rate of the topic and the reply amount. A forum topic is the one on which users can post their questions, post answers or comment on already posted responses.

Under each “Forum” topic there will be many posts and further, multiple replies on the posts. These must be followed and referred to the users who have posted questions / answers. A reply will be uniquely identified by the reply number. Further, there can be replies to a post reply as well. Hence the last reply must be shown in such cases along with the number of views and upvotes.

Screenshot using yEd graph editor



Note : Please refer to the attached PDF file (in the zip folder) for a better view of the ER model.

