

# Report

## Team Members (Group 2):

Aytha , Naga Venkata Srujana - 1002033651

Bojja, Preetham Reddy -1002026203

Chennupati, Vijay Kanth - 1001980340

## Our understanding of the entire project (Analysis and Design):

The project is all about school marketing, where there will be products to buy for the students.

The role of the student is to post content and have access to edit their profiles. Students can also add, delete, join and leave clubs. They have access to add, remove, buy and return products, and check out other students' profiles. Moreover, Students can check with the business on campus and see ads for the business on other pages. They also have the option to chat with business owners.

In the same way, there are business owners, school admins, and super admin who have different roles for each.

**Business owners** can manage the products, business page, advertisements /promotions, and chat with students.

**School Admins** can manage students and business owners and moderate the posts and clubs.

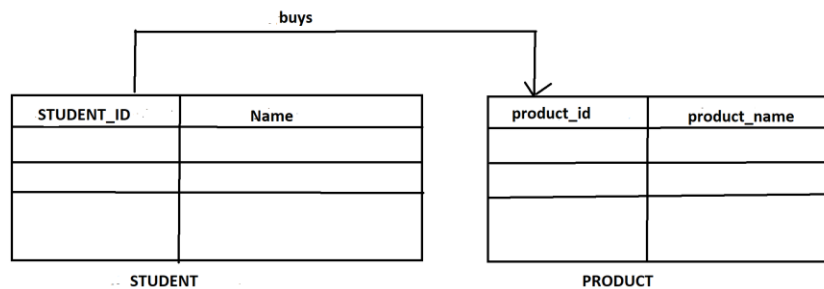
**Super Admins** can manage schools and all users and respond to all queries.

## ER Diagram:

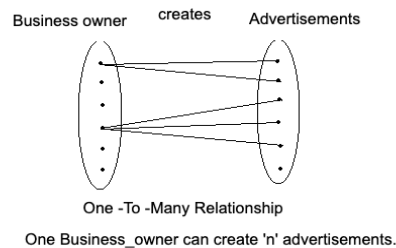
The project specifications of the system are described in the ER diagram.

- To illustrate ER diagram, we have sixteen entities user, student, school, content, club, membership, product, payment, business, message, business owner, promotions, advertisements, school\_admin, super\_admin, and query.
- All students, business owners, school admins, and super admins are users with one-to-one relationships and have attributes id, email, password, first name, Lastname, sex, dob, address, phone, and role. User sends and receives the message with one-to-many relation. User creates queries with one-to-many relation. Where one user can send many queries and messages.

- The content(attributes like id, poster\_student\_id, and info.), products (id, name, description, selling\_price, seller\_user\_id, status, buyer\_id, buyer\_type, category, and date\_of\_sale), school( id, name, address, description), payment (payment\_id, product\_id, and type ) and clubs(d, name, owner\_student\_id, info, and category) are with a many-to-one relationship with the student and has attributes id, user\_id, school\_id, major, and status.
- Student buys product with one-to-many relation because one student can buy multiple products.

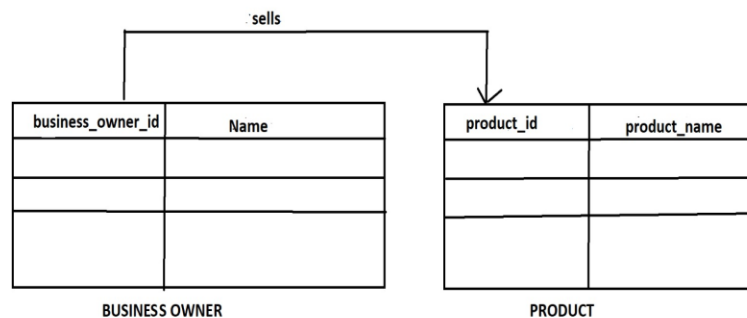


- School admin belonging to the student relates to one-to-many because one school admin can have an 'N' number of students with attributes such as id, name, address, and description.
- Business owner creates the Advertisements (attributes like id, business\_owner\_id, product\_id, descriptions) with a one-to-many relation because business owner can create 'N' number of Advertisement.



- Students can have a membership with clubs with one-to-many relation because each student may join and has memberships in the 'N' number of clubs.

- The business owner creates the promotions (attributes like id, business\_owner\_id, product\_id, description, type, value) with a one-to-many relation because the business owner can create an 'N' number of promotions.
- The business owner makes the payment (attributes like payment\_id, product\_id, type) with a one-to-many relation because the business owner can make an 'N' number of payments.
- The business owner owns the business (attributes like id, name, info, owner\_id, category) with a one-to-many relation because the business owner can own an 'N' number of Businesses.
- The business sells the product (id, name, description, selling\_price, seller\_user\_id, status, buyer\_user\_id, buyer\_type, category, date\_of\_sale) with a one-to-many relation because one business can sell 'N' number of products.



- Advertisements are created by Business owner and have relation one-to-many because one business owner can create 'N' number of advertisements.
- Promotions are created by Business owner and have relation one-to-many because one business owner can create 'N' number of promotions.
- Advertisements and Promotions are for products with a many-to-one because each product can be advertised and promoted 'N' in several ways.

### Foreign keys Used:

- The user has an id as the primary key and uses that id in various tables like a student, product, message, business\_owner, school\_admin, super\_admin, and query (To maintain the user's record).

- The student has id as the primary key and uses that in tables like content, club, and membership (To understand which student is in which club and has a membership).
- Club has id as primary key and used in membership table (To understand if a student has a membership for that club).
- A product has an id as the primary key and is used in payment (to confirm whether it is the same product or not), promotions, and advertisements (to ensure that the product and promotions are done for the product).
- Super\_admin has id as primary key and used in query table (To make sure that admin takes care of the query).