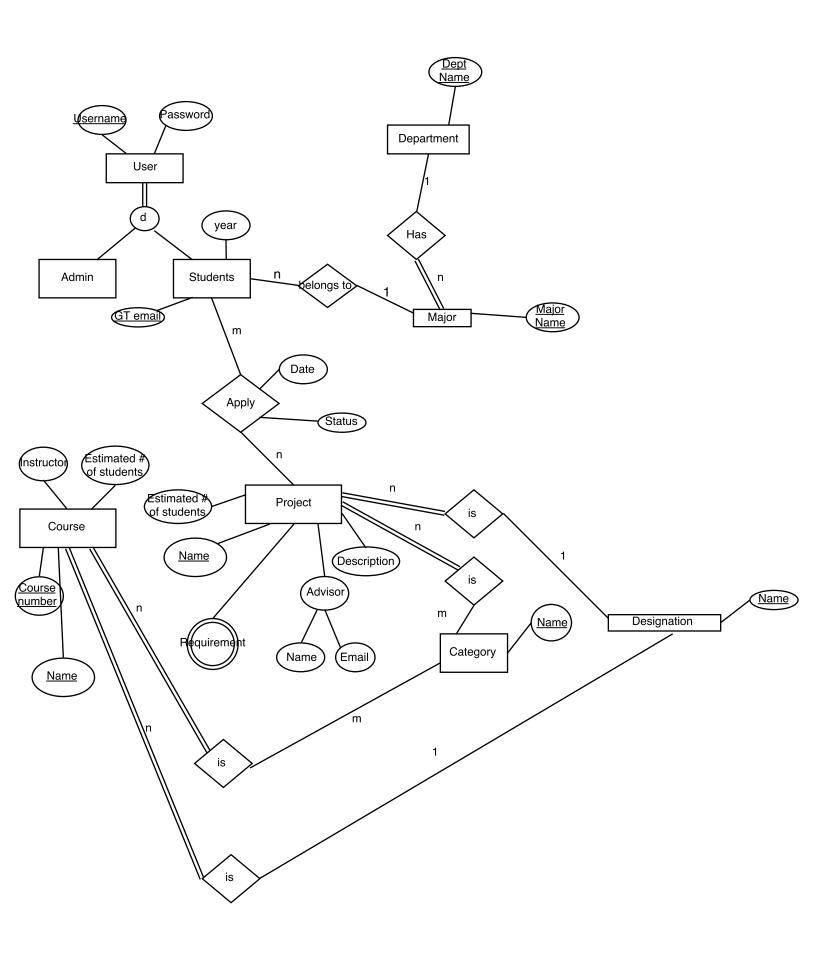
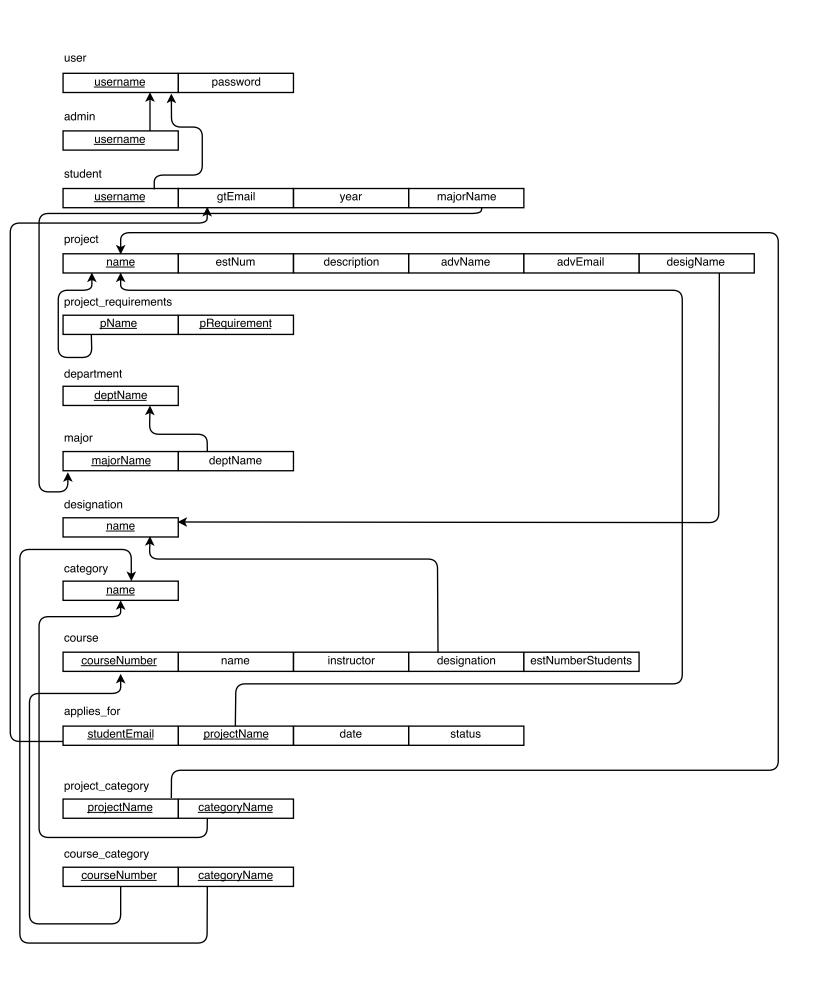
## [GROUP 75]

[Phase 2]

Bharath Kalidindi, bkalidindi3, Section B Bhaskar Khaneja, bkhaneja3, Section B Bilal Mawji, bmawji3, Section B Shyam Natarajan, snatarajan8, Section B



## Relational Diagram



```
CREATE TABLE user
username
           VARCHAR(60)
                             NOT NULL,
password
           VARCHAR(60)
                             NOT NULL,
PRIMARY KEY (username)
);
CREATE TABLE admin
username
           VARCHAR(60)
                             NOT NULL,
PRIMARY KEY (username),
FOREIGN KEY (username)
                             REFERENCES user(username)
);
CREATE TABLE student
                             NOT NULL,
gtEmail
           VARCHAR(60)
year
           VARCHAR(60)
                             NOT NULL
                                               DEFAULT "Freshman",
           VARCHAR(60)
                             NOT NULL,
username
majorName VARCHAR(60),
PRIMARY KEY (username),
FOREIGN KEY (username)
                             REFERENCES user(username),
FOREIGN KEY (majorName)
                             REFERENCES major(majorName),
UNIQUE (gtEmail)
);
CREATE TABLE project
(
           VARCHAR(60)
name
                             NOT NULL,
                             NOT NULL,
estNum
           INT
description
           VARCHAR(140)
                             NOT NULL,
advName
           VARCHAR(60)
                             NOT NULL,
advEmail
           VARCHAR(60)
                             NOT NULL,
desigName
           VARCHAR(60),
PRIMARY KEY (name),
FOREIGN KEY (desigName)
                             REFERENCES designation(name)
);
CREATE TABLE project_requirements
pName
                 VARCHAR(60)
                                   NOT NULL,
                 VARCHAR(60)
pRequirement
                                   NOT NULL,
PRIMARY KEY (pName, pRequirement),
```

```
FOREIGN KEY (pName)
                             REFERENCES project(name)
);
CREATE TABLE department
deptName
                 VARCHAR(60)
                                   NOT NULL,
PRIMARY KEY(name)
);
CREATE TABLE major
majorName
           VARCHAR(60)
                             NOT NULL,
deptName
           VARCHAR(60)
                             NOT NULL,
PRIMARY KEY (majorName),
FOREIGN KEY (deptName)
                             REFERENCES department(name)
);
CREATE TABLE designation
           VARCHAR(60)
                             NOT NULL.
name
PRIMARY KEY (name)
);
CREATE TABLE category
           VARCHAR(60)
                             NOT NULL,
name
PRIMARY KEY (name)
);
CREATE TABLE course
courseNumber
                       VARCHAR(60)
                                         NOT NULL,
                       VARCHAR(60)
                                         NOT NULL,
name
instructor
                       VARCHAR(60)
                                         NOT NULL,
designation
                       VARCHAR(60)
                                         NOT NULL,
estNumberStudents
                                         NOT NULL,
PRIMARY KEY (courseNumber),
UNIQUE (name),
FOREIGN KEY (designation) REFERENCES designation(name)
);
```

```
CREATE TABLE applies_for
studentEmail
                        VARCHAR(60)
                                          NOT NULL,
projectName
                        VARCHAR(60)
                                          NOT NULL,
date
                        TIMESTAMP
                                          DEFAULT NOW(),
status
                        VARCHAR(60)
                                          NOT NULL,
PRIMARY KEY (studentEmail, projectName),
FOREIGN KEY (studentEmail)
                              REFERENCES student(gtEmail),
                              REFERENCES project(name)
FOREIGN KEY (projectName)
);
CREATE TABLE project_category
projectName
                  VARCHAR(60)
                                    NOT NULL,
categoryName
                  VARCHAR(60)
                                    NOT NULL,
PRIMARY KEY (projectName, categoryName),
FOREIGN KEY (projectName)
                              REFERENCES project(name),
FOREIGN KEY (categoryName)
                              REFERENCES category(name)
);
CREATE TABLE course_category
courseNumber
                  INT
                                    NOT NULL,
categoryName
                  VARCHAR(60)
                                    NOT NULL,
PRIMARY KEY (courseNumber, categoryName),
FOREIGN KEY (courseNumber) REFERENCES course(courseNumber),
FOREIGN KEY (categoryName) REFERENCES category(name)
);
```