FIL Project Management System

Team: Team 4
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Project Check Point 1
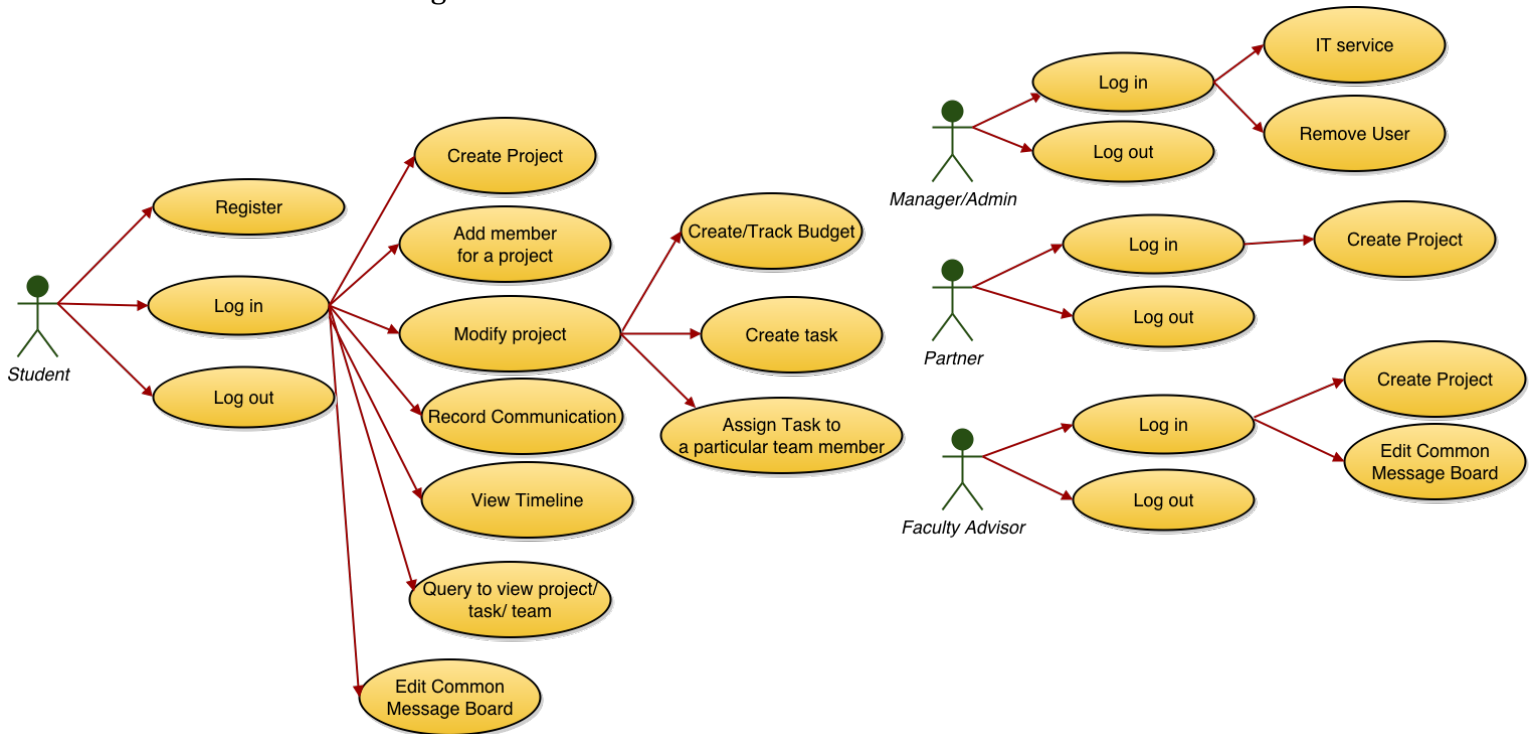
Use Case and analysis classes

❖ **Use case:**

The users in this project management system will be :
1. Students
2. Faculty advisors.
3. Parterner.
4. Manager/Admin.

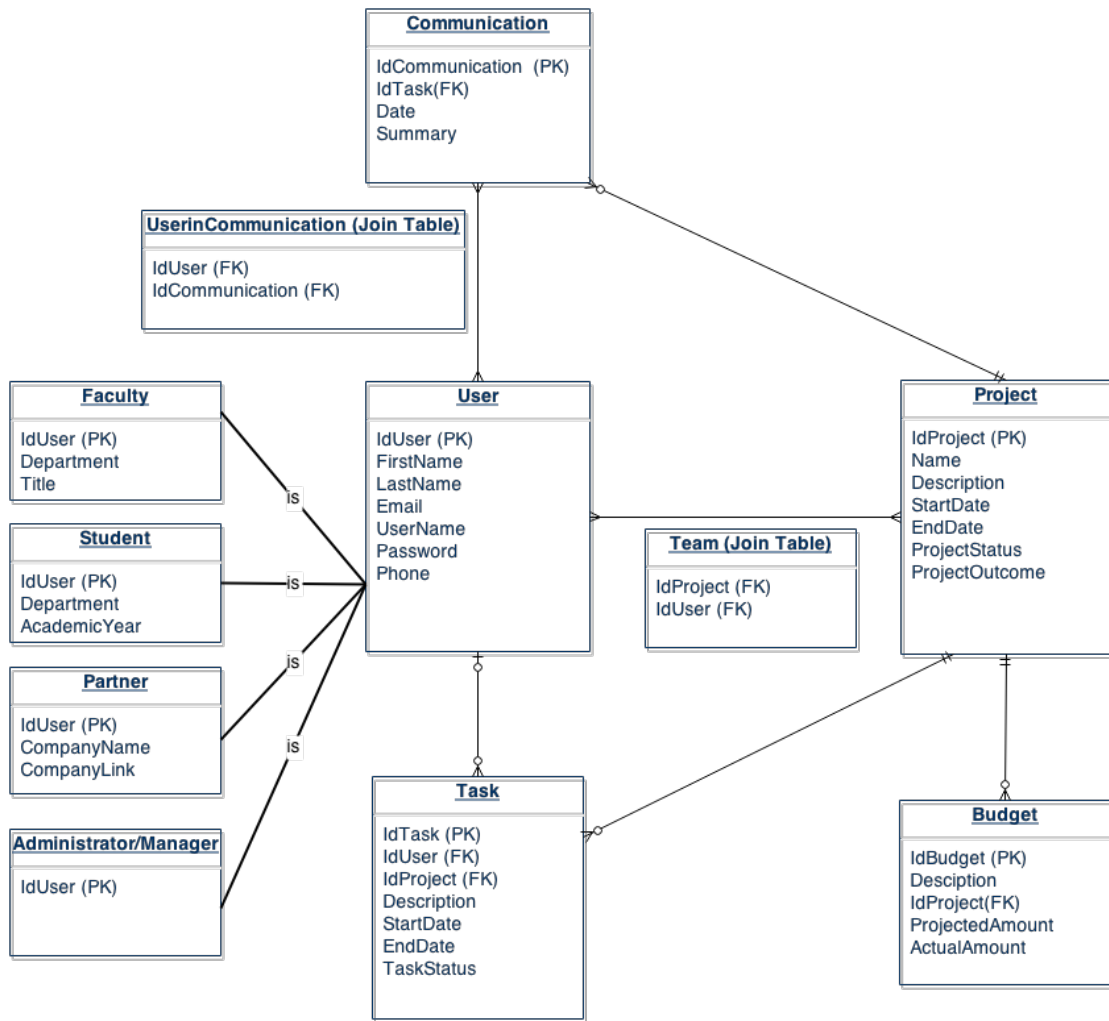The use case diagram is as follow:

❖ **Analysis classes**
  - Boundary classes
    - Register behavior
    - Login behavior
    - Logout behavior
    - Create Project behavior
    - Add member for a project behavior
    - Modify project behavior
    - Record communication behavior

- Create timeline behavior
- Create budget behavior
- Track budget behavior
- Create task behavior
- Assign task behavior
- Control classes
  - User Service controller
    - User CRUD controller
    - User login controller
    - User logout controller
  - Project Service controller
    - Project CRUD controller
  - Communication Service controller
    - Communication CRUD controller
  - Task Service controller
    - Task CRUD controller
  - Budget Service controller
    - Budget CRUD controller
  - Timeline service controller
    - Generation controller
    - Display controller
  - Common message board service controller
  - Query controller
    - Project query controller
    - User query contoller

- Entity classes
  - User information
  - Faculty information
  - Student information
  - Partner information
  - Administrator information
  - Communication information
  - Project information
  - Task information
  - Budget information

The entity class diagram can be seen as follows:

Communication

IdCommunication (PK)
IdTask(FK)
Date
Summary

UserinCommunication (Join Table)

IdUser (FK)
IdCommunication (FK)

Faculty

IdUser (PK)
Department
Title

Student

IdUser (PK)
Department
AcademicYear

Partner

IdUser (PK)
CompanyName
CompanyLink

Administrator/Manager

IdUser (PK)

User

IdUser (PK)
FirstName
LastName
Email
UserName
Password
Phone

Team (Join Table)

IdProject (FK)
IdUser (FK)

Project

IdProject (PK)
Name
Description
StartDate
EndDate
ProjectStatus
ProjectOutcome

Task

IdTask (PK)
IdUser (FK)
IdProject (FK)
Description
StartDate
EndDate
TaskStatus

Budget

IdBudget (PK)
Desciption
IdProject(FK)
ProjectedAmount
ActualAmount

is
is
is
is

Notation	
has/forms	Relationship
	Cardinality (One)
	Cardinality (Many)
	Mandatory, One
	Mandatory, Many
	Optional, One
	Optional, Many