**Analysis Classes**

**Boundary Classes:**

* Manager Register Behavior
* Manager Login Behavior
* Manager Communicate Behavior
* Manager Search Information Behavior
* Manager New Project Behavior
* Manager Team Behavior
* Manager Edit Project Behavior
* Manager Propose Project Behavior
* Manager Logout Behavior
* Manager Search Behavior
* Student Register Behavior
* Student Login Behavior
* Student Communicate Behavior
* Student Edit Behavior
* Student View Behavior
* Student Logout Behavior
* Student Search Behavior
* Professor Register Behavior
* Professor Login Behavior
* Professor Communicate Behavior
* Professor Edit Behavior
* Professor View Behavior
* Professor Search Behavior
* Professor Propose Project Behavior
* Professor Logout Behavior

**Control Classes:**

These Controller will receive the request from the GUI,,and using method in Controller to pass parameter and recall method of Model Service.

* RegisterViewController
  + addUserInfo()
* LoginViewController
  + verifyLogInfo();
* ProjectOperationController
  + addProject()
  + updateProject()
  + deleteProject()
  + proposeProject()
  + viewProjectInfo()
* TeamOperationController
  + addTeam()
  + addTeamMember()
  + updateTeam()
  + updateTeamMember()
  + deleteTeam()
  + deleteTeamMember()
  + viewTeamInfo()
* InfomationViewController
  + showProjectInfo()
  + showTeamInfo()
  + showMemberInfo()
* SearchViewController
  + search()
* CommunicationViewController
  + comMangerToProf()
  + comProfToStu()

**Entity Class**

**Project Log:**

* Project ID (Primary Key).
* Project Title
* Project Description
* Desired Outcome
* Status
* Start Date
* End Date
* Last Updated Date
* Last Updated User ID
* Project Category
* Project Budget

**Team Information Table:**

* Primary Key (Team ID, User ID).
* Project ID (foreign key).
* Assigned Task Description
* Start Date
* End Date
* Team Budget
* Status
* Last Updated Date
* Last Updated ID

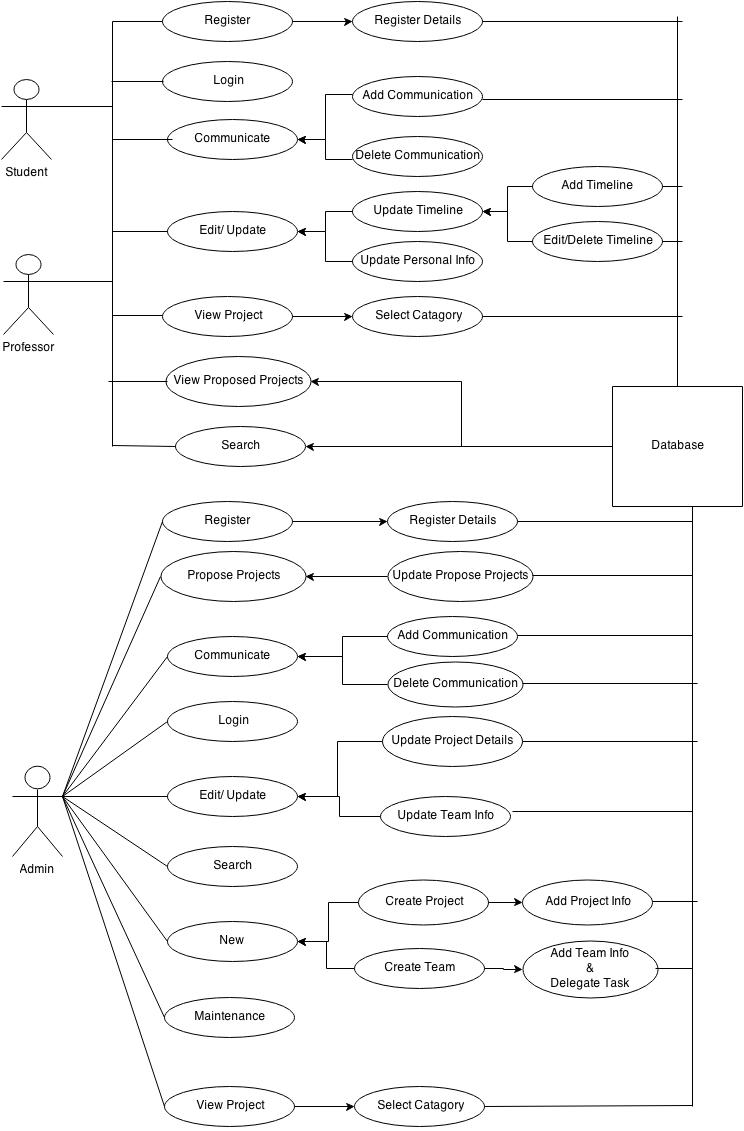
**Login Information Table:**

* User ID (Primary Key).
* User Name
* Password
* Role ID
* Email ID

**Communication Table:**

* Primary Key(User ID, Message ID)
* Original Message
* Reply Message
* Replying User ID

**USE-CASE DIAGRAM**

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