

EDUNET

**Online Educational network for the institutes and
students of Pakistan**

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Abstract

EDUNET is an educational network for the institutes and students of Pakistan. It's a web based system so it can easily be launched on a world wide web and all people of world including students of Pakistan can use it as they can use any other web based system or simple website.

This system provides the facilities to the student to search and visit institutes that are located in Pakistan. Usually when a student tends to take admission in any institute, he has to search the details of all institutes by going through the contents of their websites and each website has different format so he may have to spend several hours to find what he needs. *Institute Portal* provide all the necessary information in the simple format on a single page specially what the students usually look for before getting the admission in any institute. It also provides powerful searching so the students can search through all of the institutes.

Students can register to the EDUNET for free and satisfy their educational needs with the variety of tools. *Forum* is one of the best of all. Students can participate in interesting discussions in the forums that will help to increase their knowledge and solve their problems. Forums in the EDUNET are categorized on the bases of majors so students can find their appropriate forum very easily.

Still couldn't get satisfied? EDUNET provides you the facility to chat with faculty members of many Institutes of Pakistan. Whenever you find them online you can simply open a chat window and go live. Also, faculty members are provided with a GUI desktop application which is easy to use and let them chat with large number of students at a time.

Students can communicate using *Friends network* a very helpful facility that let a student to create his friend's list and communicate with them using text messages. EDUNET let you search and browse the students and then you can add any of them in your friend's list.

EDUNET tries to provide the environment where students can get help from many resources. This also helps the students to increase the knowledge and share their creative experience with faculty members and other students.

Requirements and Analysis

Objectives

The purpose of this document is to collect all the functional requirements of the EduNet.

Scope

Scope of this document is to nail down all the functionalities, activities, users and user-roles of the network. This document contains detailed specification of the EduNet that is necessary to design it. It also includes all the information that is required to register a student, instructor and institute in the network. Major portion of this document has the details of all the possible activities of each kind of user with each available service.

Intended Audience

There are four kind of audience for this system

- Visitors
- Students of the Institutes
- Instructor of any Institute
- Institute Representative

Visitors are the people who are not registered in this network. They will only be able to participate in few activities. Institute portal could be the only the major service they intent to use. For using more services they have to register themselves using the registration process.

Students are the people who are registered with this network due to their association with an institute. They will be the primary users of this system. They will participate in almost all activities.

Instructors are the people who are also registered with this network. They are also affiliated with an institute. They will be corresponding with student through this system. Their participation will almost be in all activities.

Institute Representative will also be registered with the network. They will be dealing mostly with the University portal proving information. They will have the same rights for other services as the visitor has.

Services provided by EduNet

The major services that will be provided by the EduNet are the following

- Institute Portal
- Blogs
- QA Forums
- Personal Messaging (Scraps)
- Friends Network

Institute portal is the information bank of all of the Institutes of the country. Here users will be able to search institutes, view profiles of the institutes, browse institutes according to their location, compare two different institutes and will be able to subscribe for institute news and events.

Blogs are kind of groups made by different Instructors of the institutes. Registered users will be able to join them in order to participate properly. Each blog could be associated with an institute, area of interest, specific field etc.

QA Forms will comprise of questions being asked by students to specified instructors. Student will be able to initiate a session for this purpose. The instructor will reply to this session. Student will be able to ask more questions if he is not satisfied with the answer. The session could continue by the student until he does not get satisfactory answer.

Personal Messaging (Scraps) is a service for interaction between two registered users. User will be able to manage their message book by viewing, deleting and replying to their messages. These messages will be totally public and any registered user will be able to see them any time.

Friends Network is a network in which you add friends for easy correspondence. Every registered user will have a friends list. User will be able to send friendship invitations, confirms invitation which they receive, manage their list of friends etc.

Possible future extension to EduNet

There are many services that are possible to be added in the network in the future. Following services have a good chance to added in EduNet

- Online chat
- SMS blogging and scraping
- EduNet for mobile phones
- Technology competitions
- Online seminars
- Collaborate online project desks
- Project showrooms

System stakeholders

Following are the tentative stakeholders of the EduNet

- System Administrator
- All kind of web users
- Students of Institutes
- Instructor of Institutes
- Institute Representative
- System moderators
- Abuse Monitors

System Major Functionality

Users will be able to perform following functionalities in the EduNet

- Register
- Edit profile
- Subscribe to news
- Post comments
- Post messages
- Post news
- Upload images
- Upload videos
- Create Blogs
- Join Blogs
- Initiate QA Forum sessions
- Reply on QA Forum sessions
- View institute and users' profiles
- Send friendship invitations
- Confirm friendship invitations
- Search students, instructors, Blogs, QA Forums and Institutes

Major Project entities and attributes

Following are the major project entities of EduNet

- Student
- Instructor
- Institute
- Message (Scrap)
- Blog
- QA Forum Session
- QA Forum Post

Students will have the following attributes required to be gathered in registration process

- First Name - mandatory
- Last Name - mandatory
- Screen name - mandatory
- Age
- Gender
- Institute - mandatory
- Contact number
- Email address - mandatory (It will also be the username)
- Password - mandatory
- Degree program
- Area of Interest
- Skills
- Batch
- Picture
- Institute history
- My Bio
- City
- Country

Instructor will have the following attributes required to be gathered in registration process

- First Name - mandatory
- Last Name - mandatory
- Screen name - mandatory
- Age
- Gender
- Institute - mandatory
- Department
- Designation
- Contact number
- Webpage link
- Qualifications
- Distinctions
- CV
- Email address - mandatory (It will also be the username)
- Password - mandatory
- Area of Interest
- Skills
- Picture
- Institute history
- My Bio
- City
- Country

Blogs will have the following attributes required when Instructors intent to create them

- Blog name
- Blog description
- Blog logo
- Blog administrator
- Blog category
- Blog creation date/time
- Blog rating
- Blog activity level

University profile will have different sections

- Fast Facts
 - Institute Name
 - Description
 - Homepage link
 - Institute logo
- Fee Structure of programs
 - Programs
 - Total fee of each program
 - Duration of each program
- Admission Information
 - Programs
 - Application date of each program
 - Test date for each program
 - Test result date for each program
 - Pre requisites for admission
 - Required test score
 - Financial Aid availability for each program
- Contact Information
 - Resource person name
 - Department of each resource person
 - Email address of each resource person
 - Phone number of each resource person
 - Mailing address of institute
- Images and Videos
 - Images
 - Description of each image

- Tags associated with each image
- Video
- Video description
- You tube video link - OR in Video uploading and you tube link

Message (Scrap) will have the following attributes

- HTML text
- Title
- Time / Date
- From
- To
- Importance level

QA Forum Sessions will have the following attributes

- Posts
- From
- To
- Creation Date / Time
- Status - (Answered, un Answered)

QA Forum Session Posts will have following attributes

- HTML Text
- Date / Time
- Type - Question or Answer

Functional Requirements

Student Possible Activities

Institute Portal

Req. #	Details
1	Student will be able to use search institute option in order to search from the list of available institutes of Pakistan.
2	Student will be able to view the profile of any institute from the search results or from institute browse page.
3	Student will be able to subscribe themselves for the news of all institutes. After subscription he will get institute news on his email address. He can also unsubscribe from the news.

4	Student will be able to post comments for each institute which will be visible in comments section in institute profile.
5	Student will be able to give rating for each institute. This rating will help to rank the institute among others.

Student Profiles

Req. #	Details
1	Student will be able to edit his profile after login to the system.
2	Student will be able to delete his profile if he wants to leave the network permanently.
3	Student will be able to search the profile of other students and instructors from search option.
4	Student will be able to view profiles of others.
5	Student will be able to send link of any profile to others.

Messages

Req. #	Details
1	Student will be able to post messages in others message book.
2	Student will be able to view his own message book.
3	Student will be able to delete messages from his own message book.
4	Student will be able to view message book of others.

Blogs

Req. #	Details
1	Student will be able to join the Blogs.
2	Student will be able to leave the Blog of which he is a member.

3	Student will be able to post messages on any Blog.
4	Student will be able to reply to the posted messages in any Blog.
5	Student will be able to upload / delete files from a particular Blog.
6	Student will be able to upload / delete pictures from a particular Blog.
7	Student will be able to subscribe / unsubscribe to events of any particular Blog.
8	Student will be able to delete his own written posts.
9	Student will be able to start a new discussion topic in a particular Blog.

QA Forum

Req. #	Details
1	Student will be able to start a QA Forum session.
2	Student will be able to post questions on a QA Forum session.
3	Student will be able to view answers from Instructor in a QA Forum session.
4	Student will be able to change the status of a QA Forum session.
5	Student will be able to view other QA Forum sessions.

Friends Network

Req. #	Details
1	Student will be able to add friends to his My Friends List.
2	Student will be able to view his own My Friends list.
3	Student will be able to remove friends from his My Friends List.

4	Student will be able to send friendship request to another user.
5	Student will be able to confirm friendship request sent by another user.

Instructor Possible Activities

Institute Portal

Req. #	Details
1	Instructor will be able to use search institute option in order to search from the list of available institutes of Pakistan.
2	Instructor will be able to view the profile of any institute from the search results or from institute browse page.
3	Instructor will be able to subscribe himself for the news of all institutes. After subscription he will get institute news on his email address. He can also unsubscribe from the news.
4	Instructor will be able to post comments for each institute which will be visible in comments section in institute profile.
5	Instructor will be able to give rating for each institute. This rating will help to rank the institute among others.

Instructor Profiles

Req. #	Details
1	Instructor will be able to edit his profile after login to the system.
2	Instructor will be able to delete his profile if he wants to leave the network permanently.
3	Instructor will be able to search the profile of other students and instructors from search option.
4	Instructor will be able to view profiles of others.
5	Instructor will be able to send link of any profile to others.

Messages

Req. #	Details
1	Instructor will be able to post messages in others message book.
2	Instructor will be able to view his own message book.
3	Instructor will be able to delete messages from his own message book.
4	Instructor will be able to view message book of others.

Blogs

Req. #	Details
1	Instructor will be able to create the Blogs.
2	Instructor will be able to delete the Blog that he has created.
3	Instructor will be able to join the Blogs.
4	Instructor will be able to leave the Blog of which he is a member.
5	Instructor will be able to post messages on any Blog.
6	Instructor will be able to reply to the post messages in any Blog.
7	Instructor will be able to upload / delete files from a particular Blog.
8	Instructor will be able to upload / delete pictures from a particular Blog.
9	Instructor will be able to subscribe / unsubscribe to events of any particular Blog.
10	Instructor will be able to delete his own written posts.
11	Instructor will be able to start a new discussion topic in a particular Blog.
12	Instructor will be able to make any participant leave the Blog that he created.