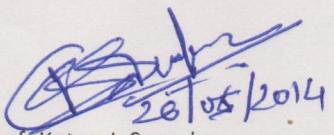


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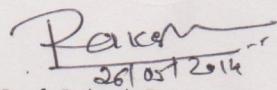
**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that Mr. Raxitkumar Solanki a student at U.V. Patel College of Engineering, Pursuing B.Tech in Information Technology, enrollment No. 10012021055 has been a project trainee of Centre at UTKARSH Technology Applications Centre from Jan 6, 2014 to May 6, 2014.

During this period of internship, we found him a diligent and enthusiastic trainee with zeal to do best at his job. He has successfully completed his work for the project "Gate Empowerment" as a part of his course curriculum. We wish Mr. Raxitkumar the very best for his career, and are thankful for the perfect service he provided to this centre.

  
Prof. Ketan J. Sarvakar

(Project Guide)

  
Prof. Rakesh D. Vanzara

(Project Guide & Head of Deptt.)



## 1. INTRODUCTION

### 1.1 PURPOSE:

GATE – Graduate Aptitude Test in Engineering.

Now days GATE is a standard examination conducted for engineers that primarily tests the comprehensive understanding of various undergraduate subjects in engineering and science.

**Financial Assistance:** A valid GATE score is essential for obtaining Financial Assistance during Master's programs and direct Doctoral programs in Engineering/Technology/ Architecture, and Doctoral program in Institutes supported by the MHRD or other Government agencies. The candidate will get financial assistantship.

**Employment:** There is a host of several PSU's who are now recruiting through GATEScores of candidate. In past Public Sector Undertakings (PSUs) like- Indian Oil Corporation Limited, National Thermal Power Corporation, Power Grid India, Bhabha Atomic Research Centre, Bharat Heavy Electricals Limited etc. has taken GATE score in consideration for recruitment of candidates and it is accepted that they will consider it this year as well. GATE score hold good value for jobs in private sector MNCs also.

Now How to get perfectly prepared for GATE is most common question we all have during this time.

We have many websites like

- o Eg. <http://www.gate.onlinetestseries.in/>,  
<http://nptel.ac.in/gatepreparation.php> <http://gateforum.com/>,  
<http://thegateacadeemy.com/>
- o etc. and many more for the catching of GATE.

We also have some websites which allows us to conduct self-test-series for GATE preparation. But most of them are financial.

We have a very less number of websites which can help student to prepare for GATE by their self.

The Purpose of this system is to build a website that helps the students to get all the guidelines for preparation of GATE and Material as well.

At first instance this website is in undertake of U. V. Patel College of Engineering. This System is a contribution for students willing to prepare for GATE without any Financial charge.

Now days IIT- Nptel is the most contributive organization in GATE Preparation, Research, And Educate Engineers field.

This website will be one step forward in contribution direction for our institute.

## 1.2 SCOPE:

- Scope of the project is very broad in field of contribution.
- Making engineering student more interested in research field.
- No coaching required(most helpful to financially weak students).
- A new platform for faculty as well to represent and enhance their technical skill.
- Aptitude, Mathematics and Technical are base of Engineering, An engineer should have to have command over one of this area.
- Free open source Android Application can be created for this perspective using web- services (JSON)

## 1.3 OBJECTIVES:

- Most of the students are less aware about the PSU sectors, GATE-Guidelines for preparation, Research Area of Engineering.
- This web application will help to make students and people aware about all this stuffs. Provide an effective tool for GATE-Preparation.
- Exchange of knowledge on world-wide platform.
- Large scale database prepared by administrator to help the students.
- Base line: - “This is not an examination web-application, this is a preparation web-application”.
- The application will help the students in preparation of GATE.
- Key idea – “Think beyond limits ” – conceptual.

## 1.4 OVERVIEW:

- Overview of the system is given by its three entity.
  1. Admin
  2. Coordinator
  3. Student
- Here are the functionality tables.

### 1. ADMIN FUNCTIONALITY TABLE.

Functionality Name	Functionality Description
<b>Add Department</b>	<p>It will Add the department in Department table</p> <p>Validation &amp; constrain :-</p> <ul style="list-style-type: none"> <li>• Already existing department cannot be inserted again.</li> <li>• Green colour message on successful operation and red colour message on error.</li> </ul>
<b>Add Subject</b>	<p>It will add the subject under specific department category.</p> <p>Validation &amp; constrain :-</p> <ul style="list-style-type: none"> <li>• Already existing subject under particular department cannot be inserted again.</li> <li>• Green colour message on successful operation and red colour message on error.</li> </ul>
<b>Add Chapter</b>	<p>It will add the chapter under specific subject → department category.</p> <p>From this page we can go for Aptitude Chapters insert also.</p> <p>Aptitude Chapters is stand-alone table because scope of the aptitude doesn't change from department to department.</p> <p>Validation &amp; constrain :-</p> <ul style="list-style-type: none"> <li>• Already existing chapter under particular subject → department cannot be inserted again.</li> <li>• Green colour message on successful operation and red colour message on error.</li> </ul>
<b>Add Question</b>	<p>It will add the question under specific chapter → subject → department category.</p> <p>Form this page we can go for aptitude question upload page also. It will also do the same.</p> <p>Validation &amp; constrain :-</p> <ul style="list-style-type: none"> <li>• Already existing question under particular chapter → subject → department cannot be inserted again.</li> <li>• Green colour message on successful operation and red colour</li> </ul>

	message on error.
<b>Upload Question</b>	Similarly as Moodle, I have created my own format for uploading the question in question table – (for aptitude also.) Validation & constrain :- <ul style="list-style-type: none"><li>• Already existing question under particular chapter → subject → department cannot be inserted again.</li><li>• Green colour message on successful operation and red colour message on error.</li><li>• Format should be strictly followed.</li></ul>
<b>Add Coordinator</b>	It will add coordinator in coordinator table. Validation & constrain :- <ul style="list-style-type: none"><li>• Green colour message on successful operation and red colour message on error.</li></ul>
<b>View Users</b>	It will display all the registered students in the system. Validation & constrain :- <ul style="list-style-type: none"><li>• Table is constructed using struts display tag property, with pagination and export option.</li><li>• We can search the students by their department.</li></ul>
<b>View Coordinator</b>	It will display all the coordinator in the system. Validation & constrain :- <ul style="list-style-type: none"><li>• Table is constructed using struts display tag property, with pagination and export option.</li><li>• We can search the coordinator by their department, name, email and subject.</li></ul>
<b>View Student Logs</b>	It will display the login activity of all the registered students. Validation & constrain :- <ul style="list-style-type: none"><li>• Table is constructed using struts display tag property, with pagination and export option.</li><li>• We can search the record by department, name and email.</li><li>• External table sorting in descending order</li></ul>
<b>View coordinator logs</b>	It will display the login activity of all the coordinator. Validation & constrain :- <ul style="list-style-type: none"><li>• Table is constructed using struts display tag property, with pagination and export option.</li><li>• External table sorting in descending order</li></ul>
<b>View Student Marks</b>	It will display marks of all the exams that a registered student has given. Validation & constrain :- <ul style="list-style-type: none"><li>• Table is constructed using struts display tag property, with pagination and export option.</li></ul>

- We can search the record by the exam type, and then by name , department , date time & marks.
- External table sorting in descending order

**question DB****Department :**

It will display the department table.

Validation & constrain :-

- Table is constructed using struts display tag property, with pagination and export option.
- Hierarchy delete functionality.

**Subject**

It will display the subject table.

Validation & constrain :-

- Table is constructed using struts display tag property, with pagination and export option.
- We can search the subject by its department.
- Hierarchy delete functionality.

**Chapter**

It will display the chapter table.

Validation & constrain :-

- Table is constructed using struts display tag property, with pagination and export option.
- We can search the chapter by its subject → department.
- Hierarchy delete functionality.

**Questions**

It will display the question table.

Validation & constrain :-

- Table is constructed using struts display tag property, with pagination and export option.
- We can search record by chapter → subject → department.
- Hierarchy delete functionality.

**Material**

It will display the material table.

Validation & constrain :-

- Table is constructed using struts display tag property, with pagination and export option.
- We can search the material by its department.
- Download or delete option.

**Aptitude**

	<p>It will display the aptitude chapters table.</p> <p>Validation &amp; constrain :-</p> <ul style="list-style-type: none"><li>• Table is constructed using struts display tag property, with pagination and export option.</li><li>• Delete option.</li></ul>
<b>Performance Graph</b>	<p>It will display the performance graph of student on the basis of the quiz exam they have given.</p> <p>Validation &amp; constrain :-</p> <ul style="list-style-type: none"><li>• First level – select department</li><li>• Second level – select type (student or all over)</li><li>• Third level – select subtype (subject , chapter or aptitude)</li><li>• It will show performance graph on the basis of these hierarchy.</li><li>• Graph format is Google graph.</li></ul>
<b>Upload Material</b>	<p>It will fire insert query in material table.</p> <p>Validation &amp; constrain :-</p> <ul style="list-style-type: none"><li>• Green colour message on successful operation and red colour message on error.</li></ul>
<b>Donation</b>	<p>It will display Two types of donation</p> <ul style="list-style-type: none"><li>• Question</li><li>• Material</li></ul> <p>Validation &amp; constrain :-</p> <ul style="list-style-type: none"><li>• Table is constructed using struts display tag property, with pagination and export option.</li><li>• Accept, reject and view options.</li></ul>

## 2. COORDINATOR FUNCTIONALITY TABLE.

Functionality Name	Functionality Description
<b>Registration</b>	<p>Admin will insert the coordinator. That means registration of coordinator will be done by admin.</p> <p>Validation &amp; constrain :-</p> <ul style="list-style-type: none"> <li>• Email can be repeated.</li> <li>• Password will be encrypted using MD5 figure print</li> </ul>
<b>Login</b>	Email and password (traditional login using database)
<b>Forget Password</b>	<p>If a coordinator has forget his/her password then he/she can make request to reset their password using this module.</p> <p>They have to provide their email , which they have write while their registration .</p> <p>Password reset link will be sent to their email.</p> <p>They can reset their password using that link</p>
<b>Add Question</b>	<p>It will add the question under specific chapter → subject → department category. (subject and department is already defined for coordinator)</p> <p>From this page we can go for aptitude question upload page also. It will also do the same.</p> <p>Validation &amp; constrain :-</p> <ul style="list-style-type: none"> <li>• Already existing question under particular chapter → subject → department cannot be inserted again.</li> <li>• Green colour message on successful operation and red color message on error.</li> </ul>
<b>Upload Question</b>	<p>Similarly as Moodle , I have created my own format for uploading the question in question table – (for aptitude also.)</p> <p>Validation &amp; constrain :-</p> <ul style="list-style-type: none"> <li>• Already existing question under particular chapter → subject → department cannot be inserted again.</li> <li>• Green colour message on successful operation and red colour message on error.</li> <li>• Format should be strictly followed.</li> </ul>
<b>Question DB</b>	<p>It will display all the questions which comes under the scope of coordinator</p> <p>Validation &amp; constrain :-</p> <ul style="list-style-type: none"> <li>• Table is constructed using struts display tag property, with pagination and export option.</li> <li>• We can search record by chapter → subject → department.</li> <li>• Hierarchy deletes functionality.</li> <li>• View and edit options</li> </ul>

<b>Donation</b>	<p>It will display Two types of donation</p> <ul style="list-style-type: none"> <li>• Question</li> <li>• Material</li> </ul> <p>Validation &amp; constrain :-</p> <ul style="list-style-type: none"> <li>• Table is constructed using struts display tag property, with pagination and export option.</li> <li>• Accept, reject and view options.</li> </ul>
<b>Performance Graph</b>	<p>It will display the performance graph of student on the basis of the quiz exam they have given.</p> <p>Validation &amp; constrain :-</p> <ul style="list-style-type: none"> <li>• Select student and exam type. (subject-wise or chapter-wise)</li> <li>• It will show performance graph on the basis of these hierarchy.</li> <li>• Graph format is Google graph.</li> </ul>
<b>Upload Material</b>	<p>It will fire insert query in material table.</p> <p>Validation &amp; constrain :-</p> <ul style="list-style-type: none"> <li>• Green colour message on successful operation and red colour message on error.</li> </ul>
<b>My Logs</b>	<p>It will display the login activity of all the coordinator.</p> <p>Validation &amp; constrain :-</p> <ul style="list-style-type: none"> <li>• Table is constructed using struts display tag property, with pagination and export option.</li> <li>• External table sorting in descending order</li> </ul>
<b>Change Password</b>	<p>Coordinator can change their password.</p> <p>In this module one form will be provided , containing two fields,</p> <ul style="list-style-type: none"> <li>• Old password</li> <li>• New password</li> </ul> <p>In order to update password successfully student have to provide the right old password.</p> <p>Validation &amp; constrain :-</p> <ul style="list-style-type: none"> <li>• Green colour message on successful operation and red colour message on error.</li> <li>• Old password must match to existing password.</li> </ul>

### 3. STUDENT FUNCTIONALITY TABLE.

Functionality Name	Functionality Description
<b>Registration</b>	<p>Student can register their selves.  Validation &amp; constrain :-</p> <ul style="list-style-type: none"> <li>• Email can be repeated.</li> <li>• Password will be encrypted using MD5 figure print</li> </ul>
<b>Login</b>	Email and password (traditional login using database)
<b>Forget Password</b>	<p>If a student has forgot his/her password then he/she can make request to reset their password using this module.  They have to provide their email, which they have write while their registration.  Password reset link will be sent to their email.  They can reset their password using that link</p>
<b>Preparation</b>	<p>There are two types of preparation.</p> <ul style="list-style-type: none"> <li>• Chapter Q &amp;A</li> <li>• Aptitude</li> </ul> <p>As their name suggest, both the type will fetch questions from question table according to their type.  Validation &amp; constrain :-</p> <ul style="list-style-type: none"> <li>• Table is constructed using struts display tag property, with pagination and export option.</li> </ul> <p>(for more detailed functionality view the live demo.)</p>
<b>Exams</b>	<p>There are three types of exams.</p> <ul style="list-style-type: none"> <li>• Chapter-wise</li> <li>• Subject-wise</li> <li>• Aptitude.</li> </ul> <p>Each type of exams will be of 15 marks.  Validation &amp; constrain :-</p> <ul style="list-style-type: none"> <li>• Table is constructed using struts display tag property, with pagination and export option.</li> </ul> <p>(for more detailed functionality view the live demo.)</p>
<b>Downloads</b>	<p>It will display the material table. (in scope of student)  Validation &amp; constrain :-</p> <ul style="list-style-type: none"> <li>• Table is constructed using struts display tag property, with pagination and export option.</li> <li>• Download option</li> </ul>

<b>Donation</b>	Student can donate material as well as question. Administrator or coordinator can accept or reject their donation.
<b>Change Password</b>	<p>Student can change their password.</p> <p>In this module one form will be provided , containing two fields,</p> <ul style="list-style-type: none"> <li>• Old password</li> <li>• New password</li> </ul> <p>In order to update password successfully student have to provide the right old password.</p> <p>Validation &amp; constrain :-</p> <ul style="list-style-type: none"> <li>• Green colour message on successful operation and red colour message on error.</li> <li>• Old password must match to existing password.</li> </ul>
<b>Performance Graph</b>	<p>It will display the performance graph of student on the basis of the quiz exam they have given.</p> <p>Validation &amp; constrain :-</p> <ul style="list-style-type: none"> <li>• select subtype (subject , chapter or aptitude)</li> <li>• It will show performance graph on the basis of these hierarchy.</li> <li>• Graph format is Google graph.</li> </ul>
<b>My Login Activity</b>	<p>It will display records from user log table.</p> <p>Validation &amp; constrain :-</p> <ul style="list-style-type: none"> <li>• Table is constructed using struts display tag property, with pagination and export option.</li> <li>• External table sorting in descending order</li> </ul>
<b>My Exam result</b>	<p>It will display student's result on the basis of examination he/she has given.</p> <p>Validation &amp; constrain :-</p> <ul style="list-style-type: none"> <li>• Table is constructed using struts display tag property, with pagination and export option.</li> <li>• External table sorting in descending order</li> </ul>

## 2. TECHNOLOGY USED

### 2.1 BASIC TECHNOLOGIES:

#### JAVA EE:

Java Enterprise Edition is a programming platform— part of the Java Platform-for developing and running distributed multi-tier architecture Java applications, based largely on modular software components running on an application server. JSP (Java Server Pages) will be used in this basically in frontend, with some servlets as a backend.

#### HTML, XML:

Hyper Text Markup Language and Extensible Markup Language are the predominant markup languages for web pages. It provides a means to describe the structure of text-based information in a document and to supplement that text with interactive forms, embedded images and other objects.

#### JAVASCRIPT:

- JavaScript was designed to add interactivity to HTML pages
- JavaScript is a scripting language - a scripting language is a lightweight programming language
- A JavaScript is lines of executable computer code
- A JavaScript is usually embedded directly in HTML pages
- JavaScript is an interpreted language (means that scripts execute without preliminary compilation)
- Everyone can use JavaScript without purchasing a license
- JavaScript is supported by all major browsers, like Netscape and Internet Explorer, Chrome, Mozilla Firefox, etc.

**HIBERNATE 3.2.1** is a JavaEE framework based on object relational mapping.

**Struts 1.3** is also a JavaEE framework for providing MVC architecture in System.

## 2.2 Tools & Development Environment:

### MY SQL :

- MY SQL is the database management system that delivers a flexible and cost effective database platform to build robust on demand business applications.
- As MY SQL Server we have used XAMPP Control Panel, which provides virtual server for testing purpose on local host.

### MYECLIPSE 7.5 ENTERPRISE EDITION:

- My Eclipse is a toolkit which is designed for the creation of more complex projects, providing fully dynamic web application utilizing almost All Frameworks.
- This consist of Struts capabilities , Hibernate culpabilities , Spring capabilities and lot more for web development.
- Latest version in use is My Eclipse 13.
- **Apache Tomcat Server** (no JDK is required only JREis sufficient) : System uses built-in Apache Tomcat Server provided by IDE.

## 2.3 Other Technology :

### CSS

- CSS (Cascading Style sheets) is a style sheet language used to describe the presentation semantic of a document written in a mark-up language.
- It's most common application is to style web pages written in HTML, but the language can also be applied to any kind of document, including plain XML, SVG and XUL.

### JQUERY

- jQuery is a fast, small, and feature-rich JavaScript library.
- It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. With a combination of versatility and extensibility, jQuery has changed the way that millions of people write JavaScript.

### **3. REQUIREMENTS**

#### **3.1 HARDWARE REQUIREMENTS:**

##### **Server Side:**

The web application will be hosted on connecting to Database server. The web server is listening on the web standard port, eg. port 8080.

##### **Client Side:**

The system is a web based application; clients are requiring using a modern web browser such as Mozilla Firefox 1.6, Internet Explorer 8, Internet Explorer 9, opera and google chrome. The computer must have an Internet connection in order to be able to access the system.

Processor : Intel Pentium processor or higher processor

RAM : 128 MB or Higher

#### **3.2 SOFTWARE REQUIREMENTS:**

**FRONT- END:** JSP , HTML

**BACK END – MySQL:**

- MS SQL (Microsoft SQL Server) is the relational database management system produced by Microsoft.
- Microsoft SQL Server is a comprehensive database server and information platform offering a complete set of enterprise-ready technologies and tools that help people derive the most value from information at the lowest total-cost-of-ownership. Enjoy high levels of performance, availability, and security, employ more productive management and development tools and deliver pervasive insight with self-service business intelligence (BI).
- A complete and integrated platform, Microsoft SQL Server brings it all together to get more value out of existing IT skills and assets, increase the productivity and agility of IT departments, and quickly build flexible, innovative applications.

#### **3.3 NON-FUNCTIONAL REQUIREMENT:**

Initial non-functional requirements will be: -

- Secure access of confidential data (user's details). SSL can be used.
- 24 X 7 availability
- Better component design to get better performance at peak time
- Flexible service based architecture will be highly desirable for future extension
- Advertisement space where it will effectively catch the customer's attention and as a source of revenue.

## 4. FEASIBILITY STUDY

Depending on the results of the initial investigation the survey is now expanded to a more detailed feasibility study. "**FEASIBILITY STUDY**" is a test of system proposal according to its workability, impact of the organization, ability to meet needs and effective use of the resources. It focuses on these major questions:

- ✓ What are the user's demonstrable needs and how does a system meet them?
- ✓ What resources are available for given candidate system?
- ✓ What are the likely impacts of this system on the organization?
- ✓ Whether it is worth to solve the problem?

During feasibility analysis for this project, following primary areas of interest are to be considered. Investigation and generating ideas about a new system does this.

- **Steps in feasibility analysis:**

Eight steps involved in the feasibility analysis are:

- ✓ Form a project team and appoint a project leader.
- ✓ Prepare system flowcharts.
- ✓ Enumerate potential proposed system.
- ✓ Define and identify characteristics of proposed system.
- ✓ Determine and evaluate performance and cost effective of each proposed system.
- ✓ Weight system performance and cost data.
- ✓ Select the best-proposed system.
- ✓ Prepare and report final project directive to management.

### 4.1 TECHNICAL FEASIBILITY

A study of resource availability that may affect the ability to achieve an acceptable system. This evaluation determines whether the technology needed for the proposed system is available or not.

- ✓ Can the work for the project be done with current equipment existing software technology & available personal?
- ✓ Can the system be upgraded if developed?
- ✓ If new technology is needed then what can be developed?

#### 4.1.1 Front-end and back-end selection

An important issue for the development of a project is the selection of suitable front-end and back-end. When we decided to develop the project we went through an extensive study to determine the most suitable platform that suits the needs of the organization as well as helps in development of the project.

#### **4.1.2 Front-end selection:**

- ✓ It must have a graphical user interface that assists employees that are not from IT-background.
- ✓ Scalability and extensibility.
- ✓ Flexibility.
- ✓ Robustness.
- ✓ According to the organization requirement and the culture.
- ✓ Must provide excellent reporting features with good printing support.
- ✓ Platform independent.
- ✓ Easy to debug and maintain.
- ✓ Event driven programming facility.
- ✓ Front end must support some popular back end .

According to the above stated features we selected jsp and html as the front-end for developing our project.

#### **4.1.3 Back-end Selection:**

- ✓ Multiple user support.
  - ✓ Efficient data handling.
  - ✓ Provide inherent features for security.
  - ✓ Efficient data retrieval and maintenance.
  - ✓ Stored procedures.
  - ✓ Popularity.
  - ✓ Operating System compatible.
  - ✓ Easy to install.
  - ✓ Various drivers must be available.
  - ✓ Easy to implant with the Front-end.
- According to above stated features we selected My-SQL as the backend.
  - The technical feasibility is frequently the most difficult area encountered at this stage. It is essential that the process of analysis and definition be conducted in parallel with an assessment to technical feasibility. It centers on the existing computer system(hardware, software etc.) and to what extent it can support the proposed system.

## **4.2 ECONOMICAL FEASIBILITY**

Economic justification is generally the “Bottom Line” consideration for most systems.

Economic justification includes a broad range of concerns that includes cost benefit analysis. In this we weight the cost and the benefits associated with the candidate system and if it suits the basic purpose of the organization i.e. profit making, the project is making to the analysis and design phase.

The financial and the economic questions during the preliminary investigation are verified to estimate the following:

- The cost to conduct a full system investigation.
- The cost of hardware and software for the class of application being considered.
- The benefits in the form of reduced cost.
- The proposed system will give the minute information, as a result the performance is improved which in turn may be expected to provide increased profits. This feasibility checks whether the system can be developed with the available funds.

The **Gate-Empowerment** does not require enormous amount of money to be developed. This can be done economically if planned judiciously, so it is economically feasible. The cost of project depends upon the number of man-hours required.

### 4.3 OPERATIONAL FEASIBILITY

It is mainly related to human organizations and political aspects. The points to be considered are:

- What changes will be brought with the system?
- What organization structures are disturbed?

The system is operationally feasible as it is very easy for the End users to operate it. It only needs basic information about Internet.

### 4.4 SCHEDULE FEASIBILITY

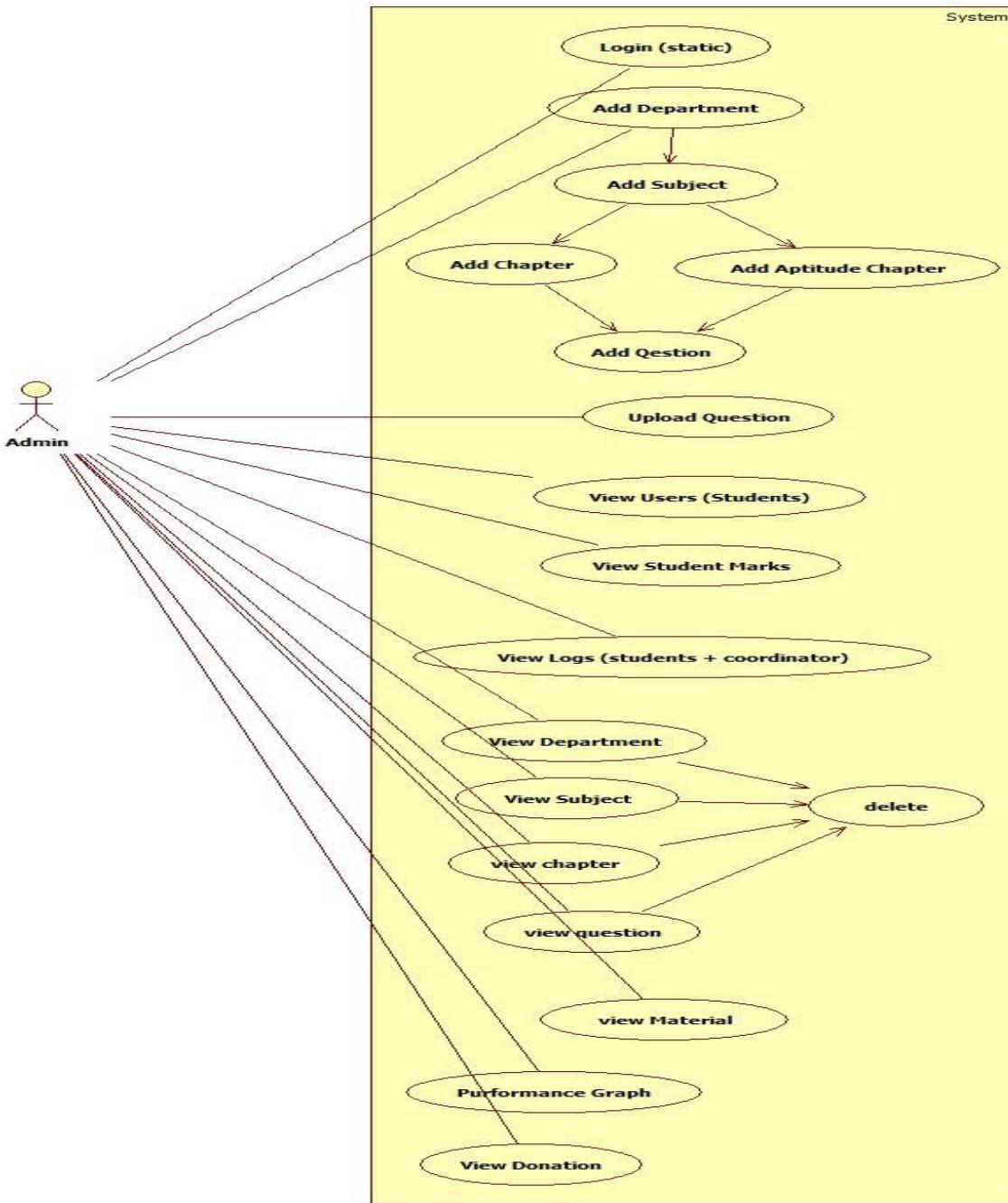
Time evaluation is the most important consideration in the development of project.

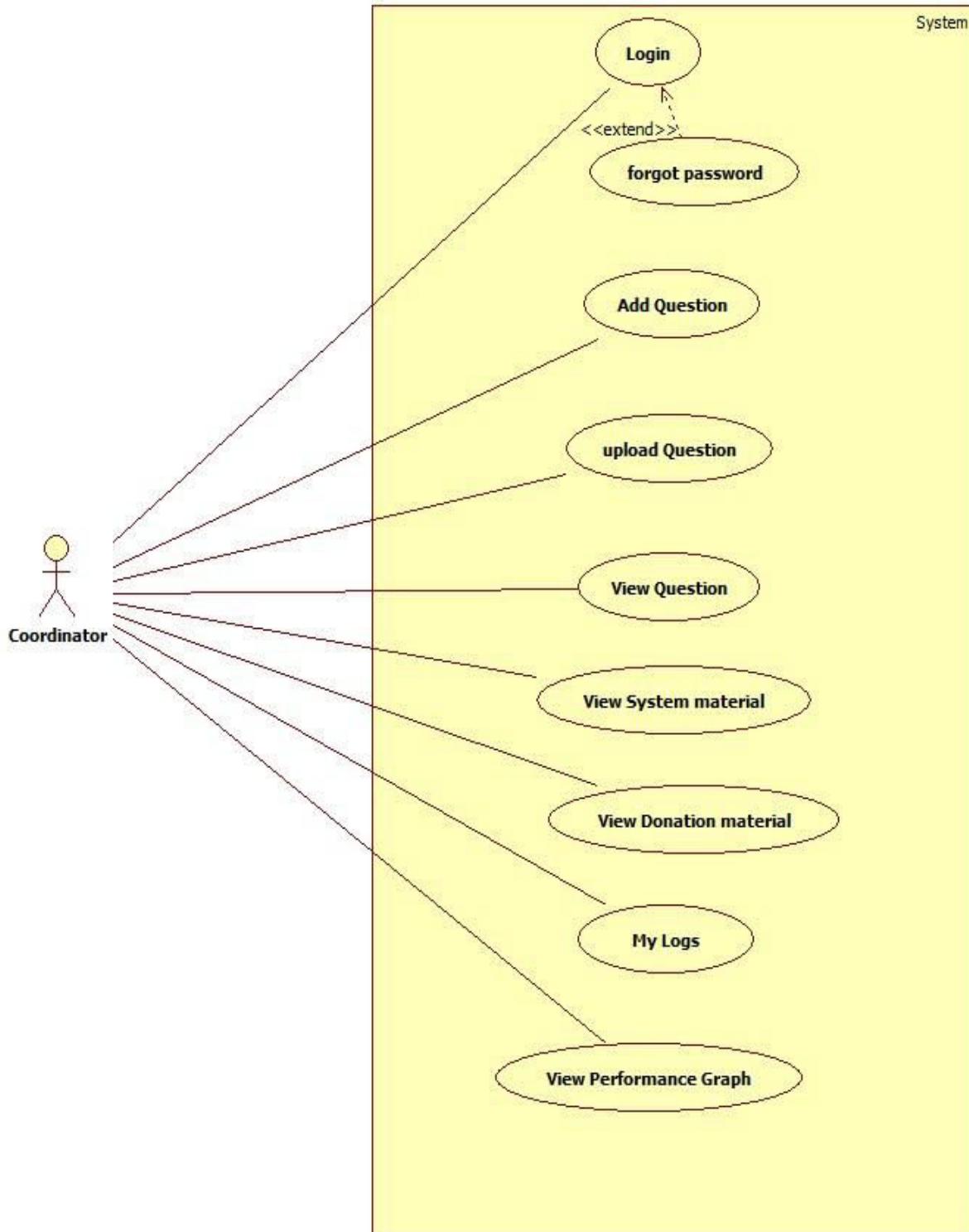
- The time schedule required for the development of this project is very important since more development time affects machine time, cost and cause delay in the development of other systems.
- A reliable **Gate-Empowerment** can be developed in the considerable amount of time.

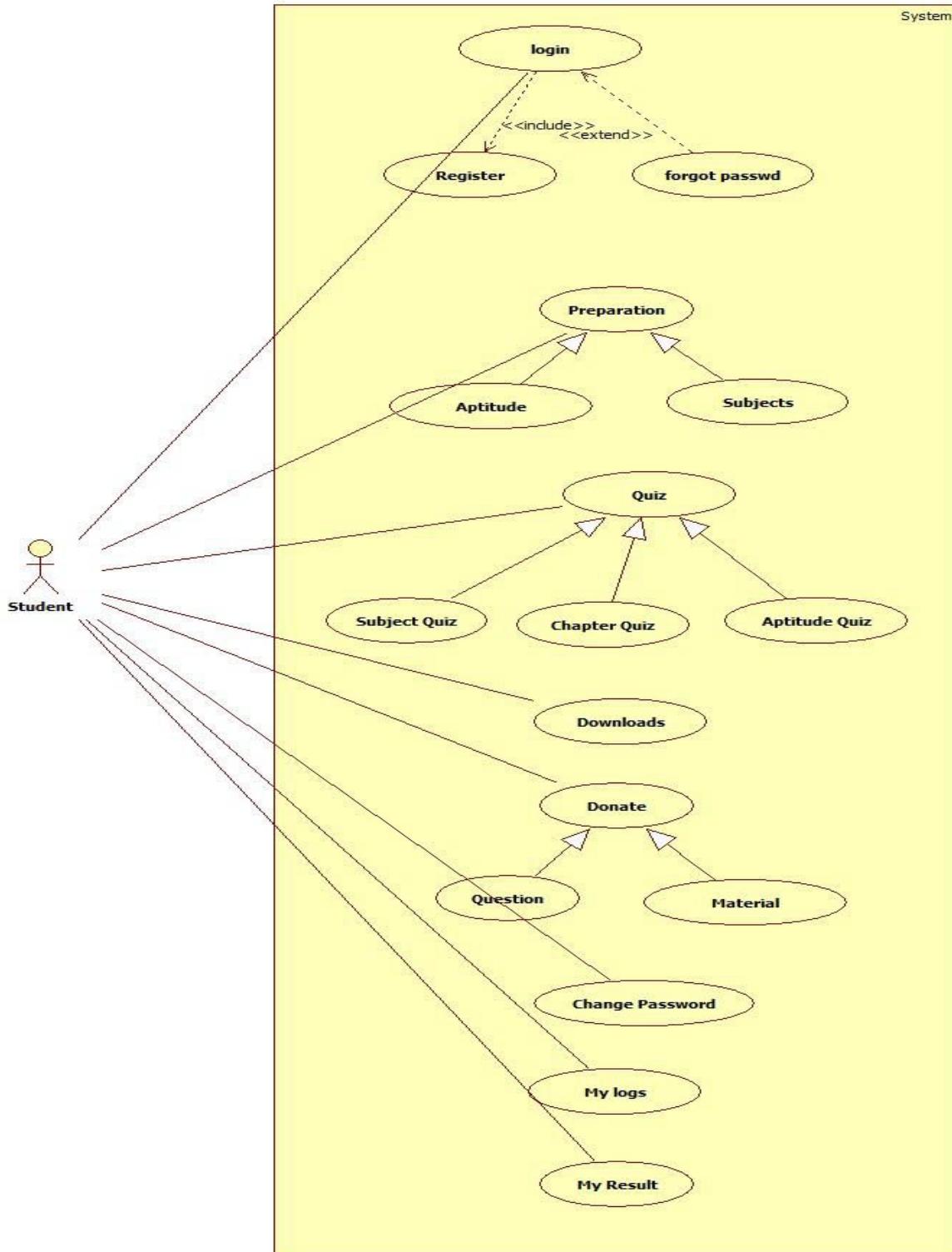
## 5. DIAGRAMS

### 5.1 USECASE DIAGRAMS

Admin

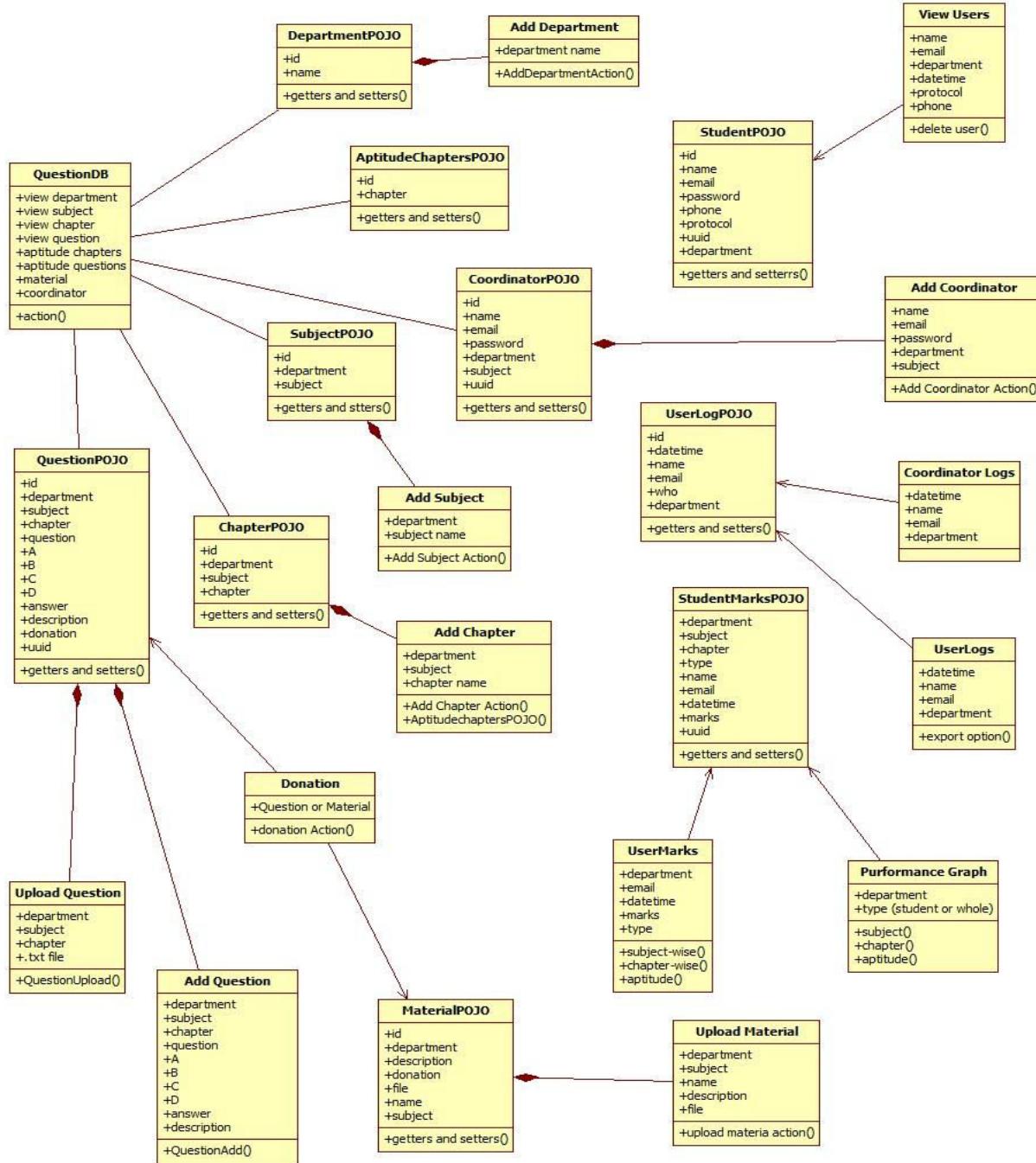


**Coordinator**

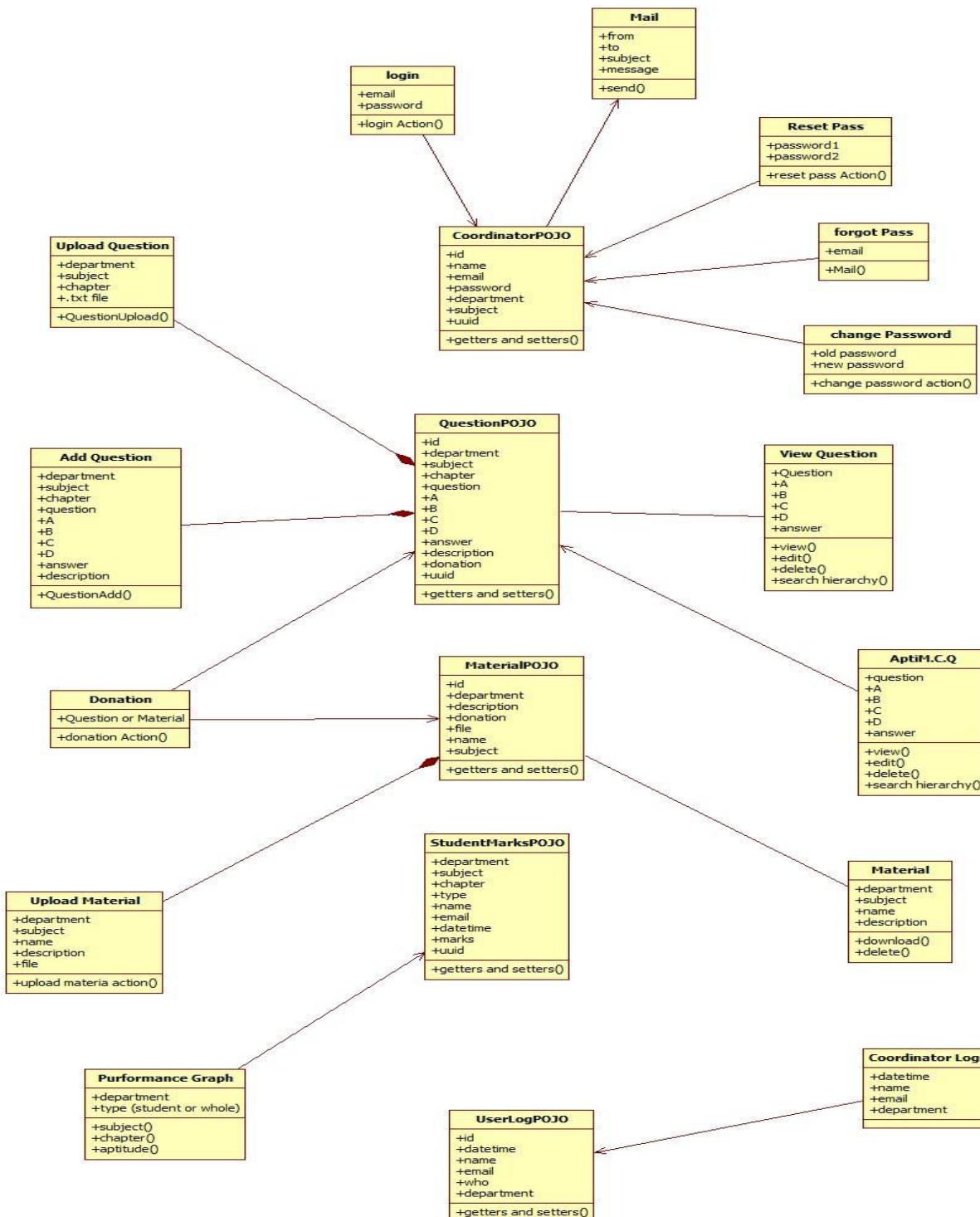
**Student**

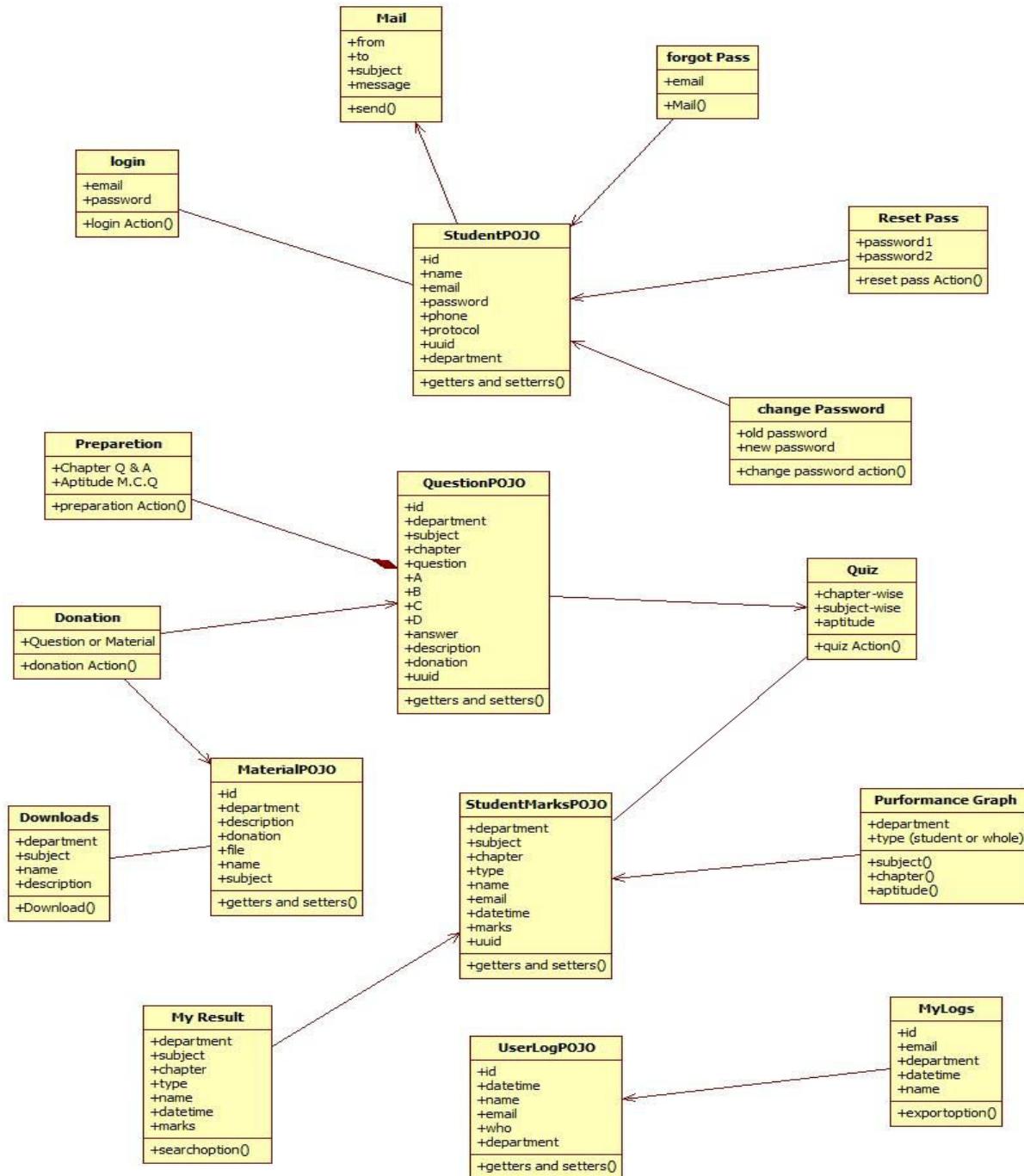
## 5.2 Class Diagram

### Admin



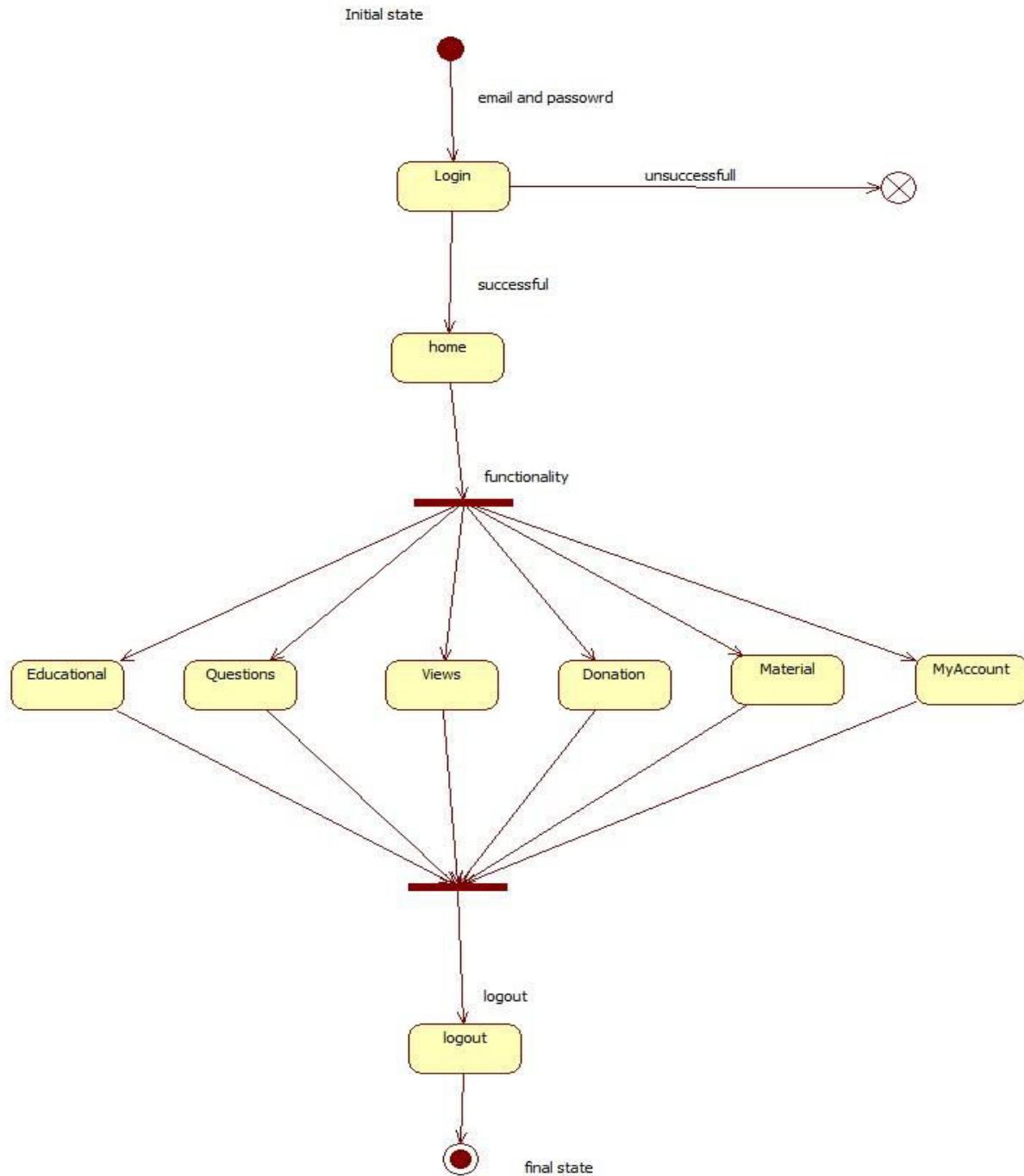
## **Coordinator**

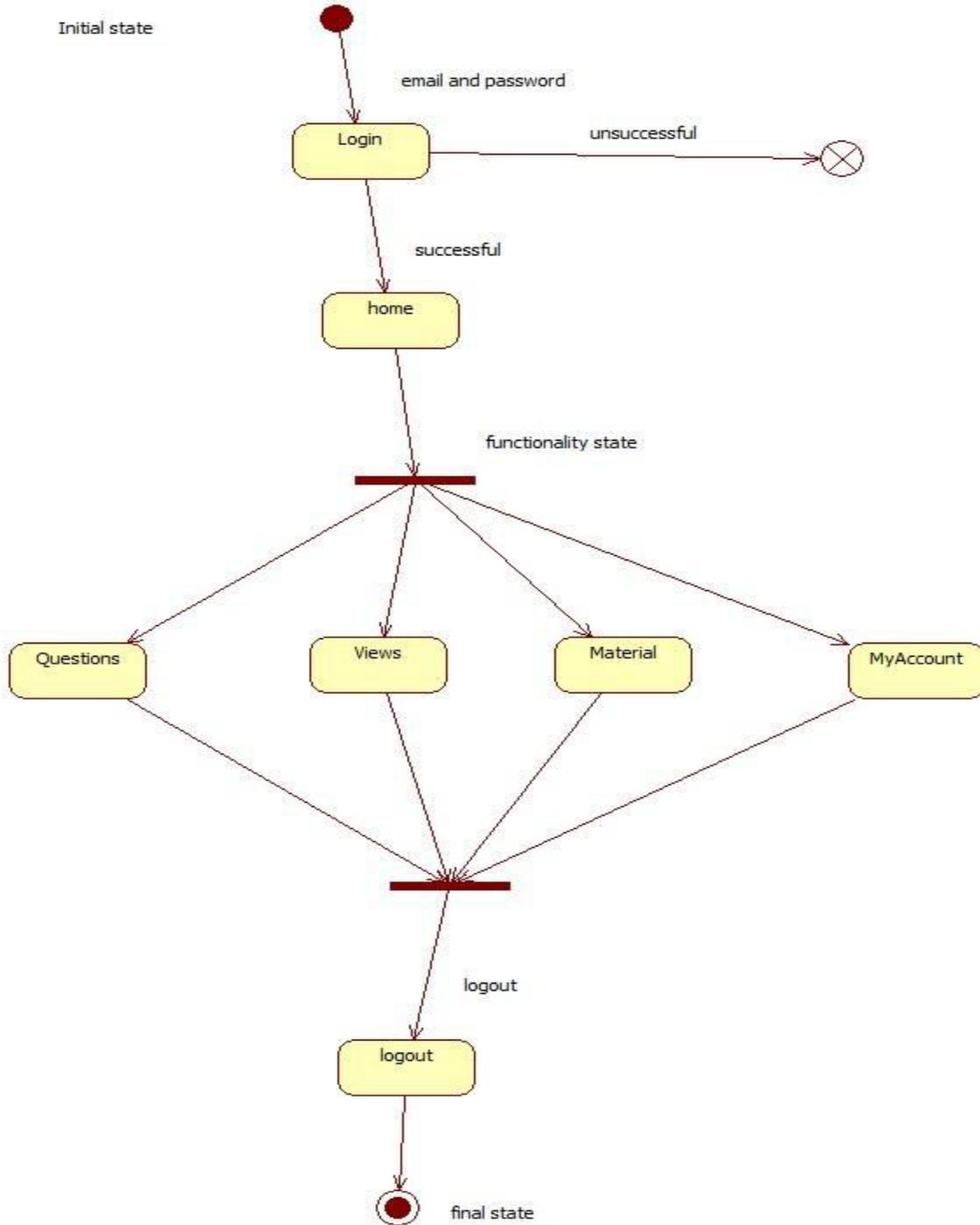


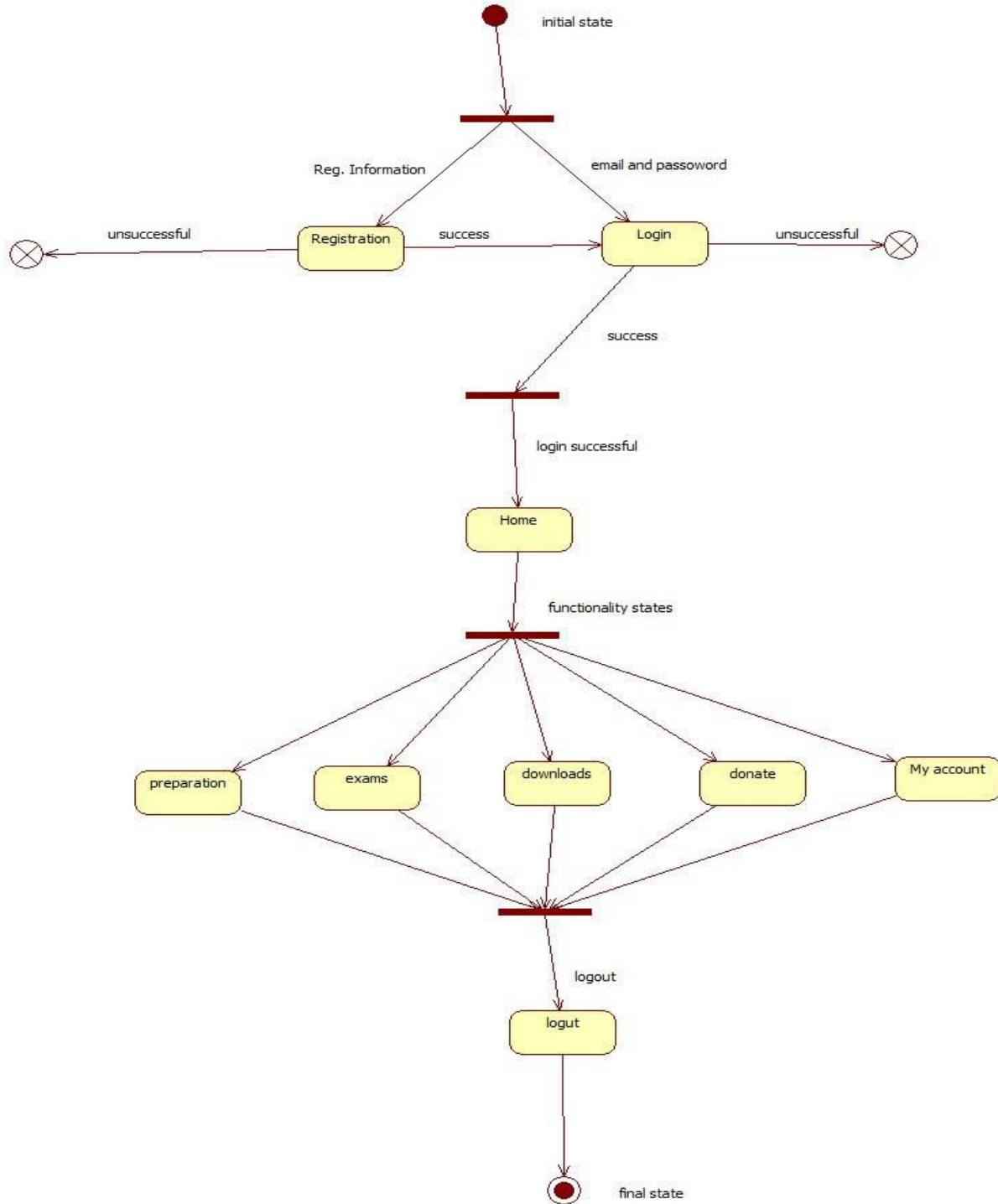
**Student**

### 5.3 STATECHART DIAGRAMS

#### Admin

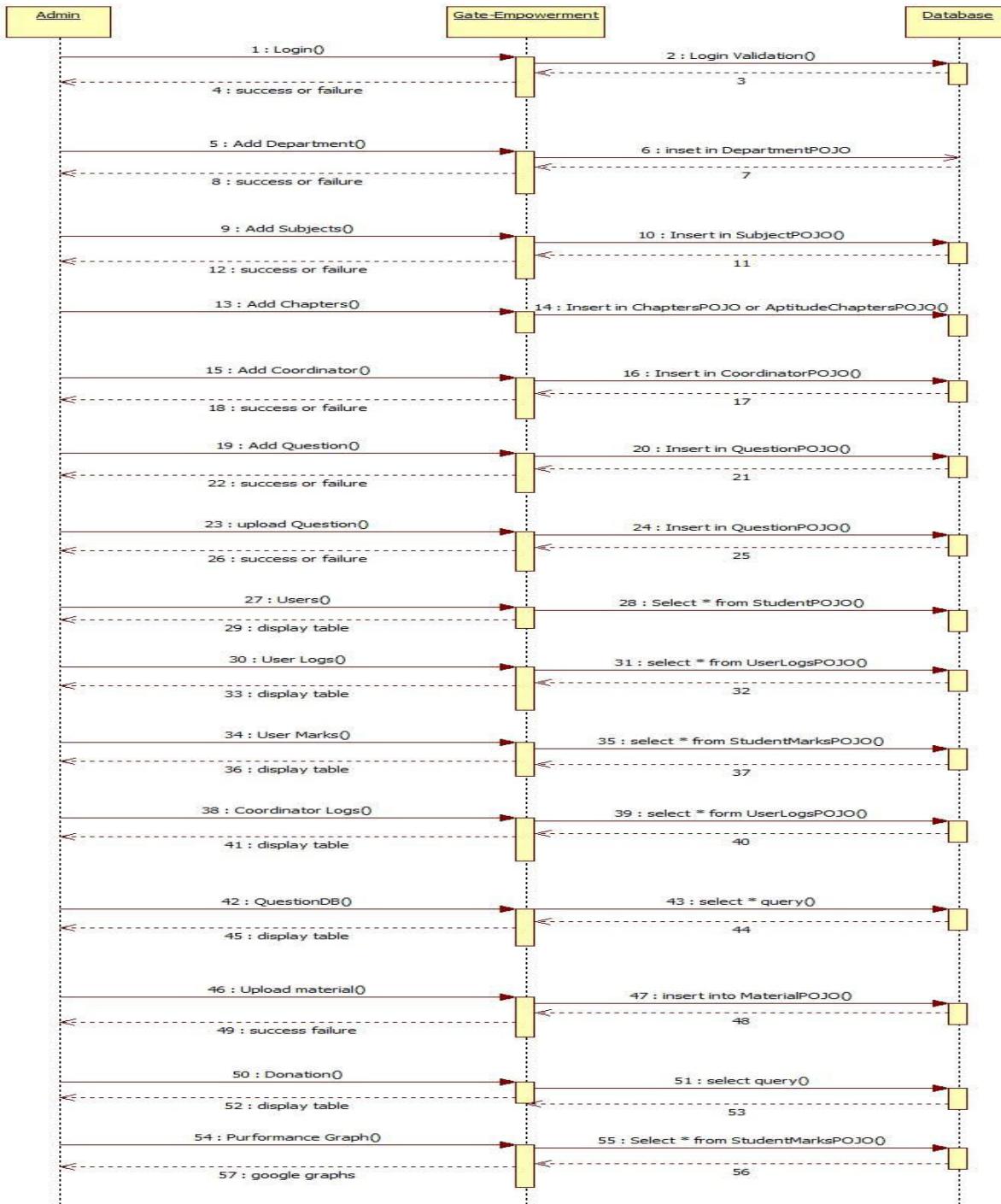


**Coordinator**

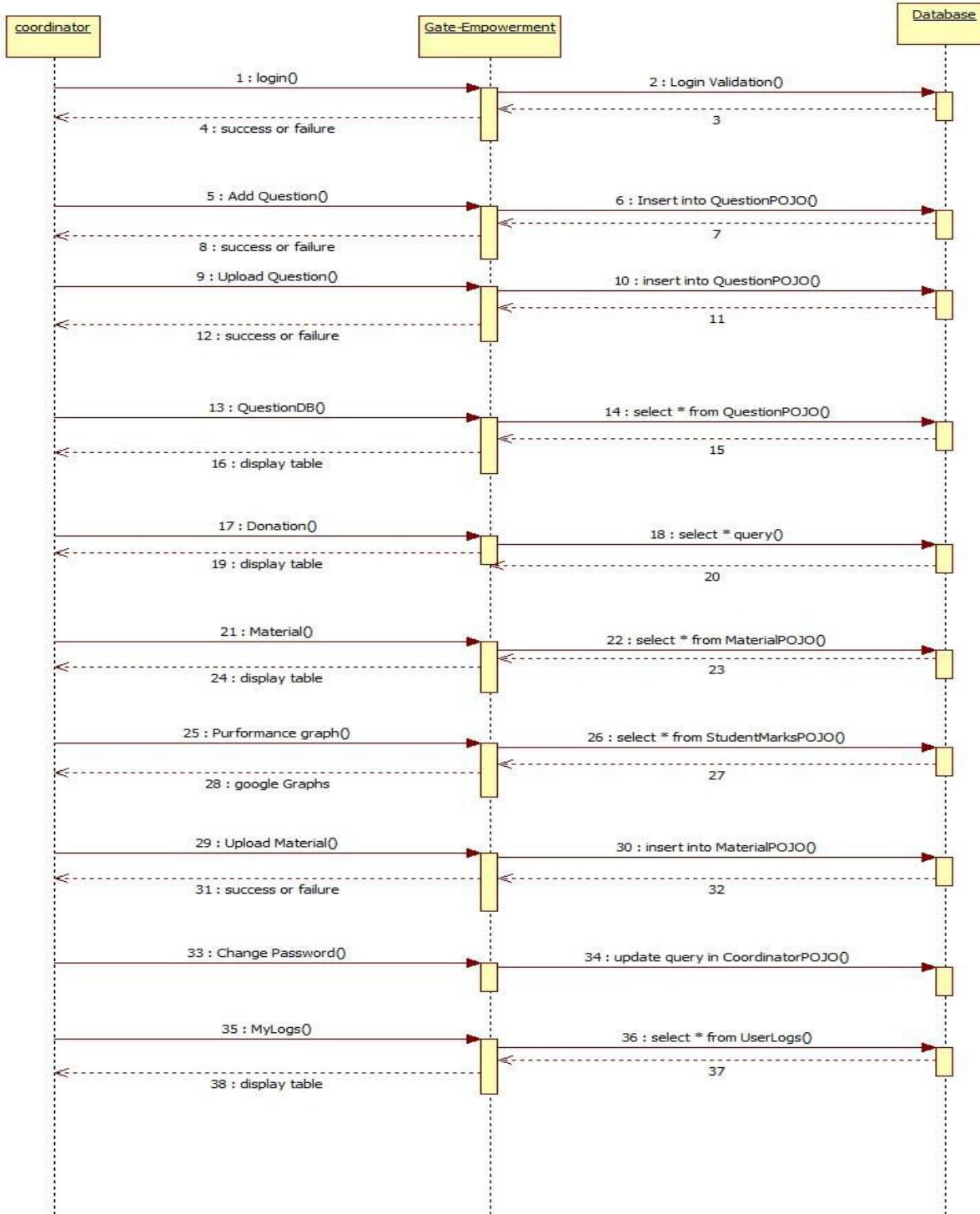
**Student**

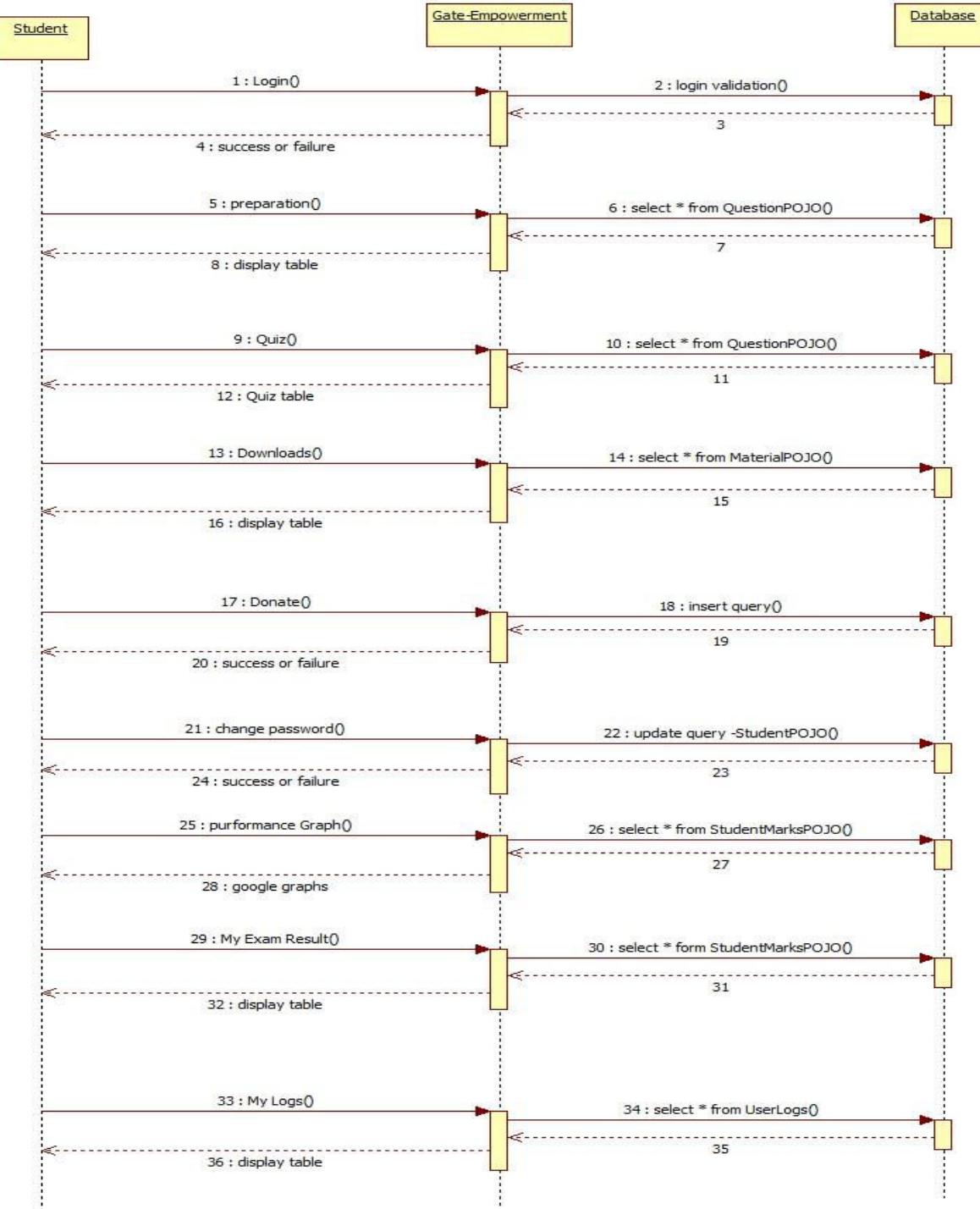
## 5.4 SEQUENCE DIAGRAMS

### Admin



## Coordinator



**Student**

## 5.5 DATA DICTIONARY DIAGRAMS:

### department

Field Name	Data Type
id	int
name	varchar

### subject

Field Name	Data Type
id	int
department	varchar
subject	varchar

### chapter

Field Name	Data Type
id	int
department	varchar
subject	varchar
chapter	varchar

### question

Field Name	Data Type
id	int
department	varchar
subject	varchar
chapter	varchar
question	varchar
A	varchar
B	varchar
C	varchar
D	varchar
answer	varchar
description	text
uuid	varchar
donation	varchar

**student**

Field Name	Data Type
id	int
name	varchar
email	varchar
password	varchar
department	varchar
datetime	varchar
phone	varchar
protocol	varchar
uuid	varchar

**aptitudechapters**

Field Name	Data Type
id	int
chapter	varchar

**userlog**

Field Name	Data Type
Id	int
name	varchar
email	varchar
department	varchar
datetime	varchar
who	varchar

**material**

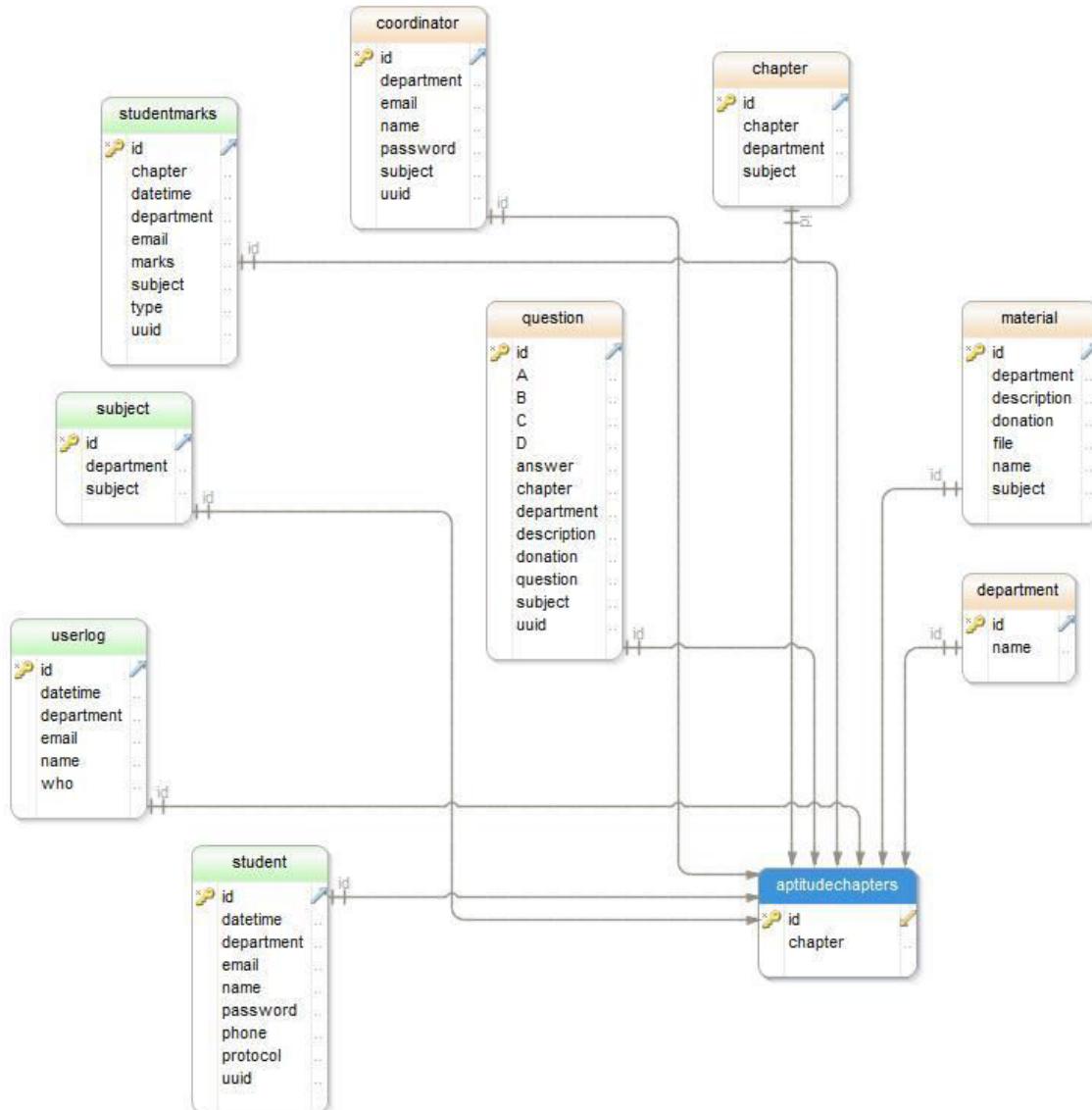
Field Name	Data Type
id	int
department	varchar
donation	varchar
description	varchar
file	varchar
name	varchar
subject	varchar

**coordinator**

<b>Field Name</b>	<b>Data Type</b>
id	int
department	varchar
email	varchar
name	varchar
password	varchar
subject	varchar
uuid	varchar

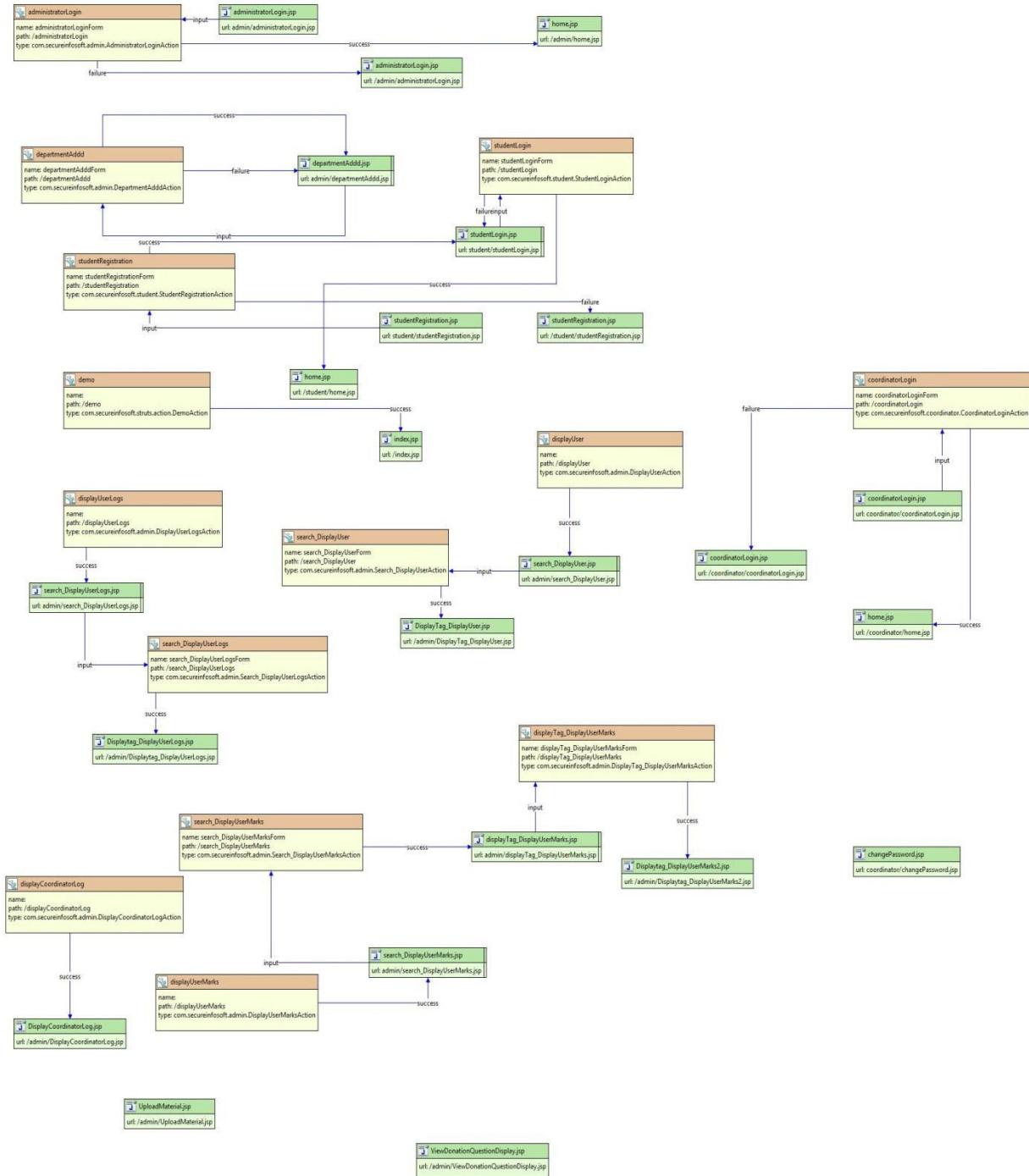
**studentmarks**

<b>Field Name</b>	<b>Data Type</b>
id	int
chapter	varchar
department	varchar
datetime	varchar
email	varchar
marks	varchar
subject	varchar
type	varchar
uuid	varchar

**DATA-DICTONARY DIAGRAM USING DBSCHEMA**

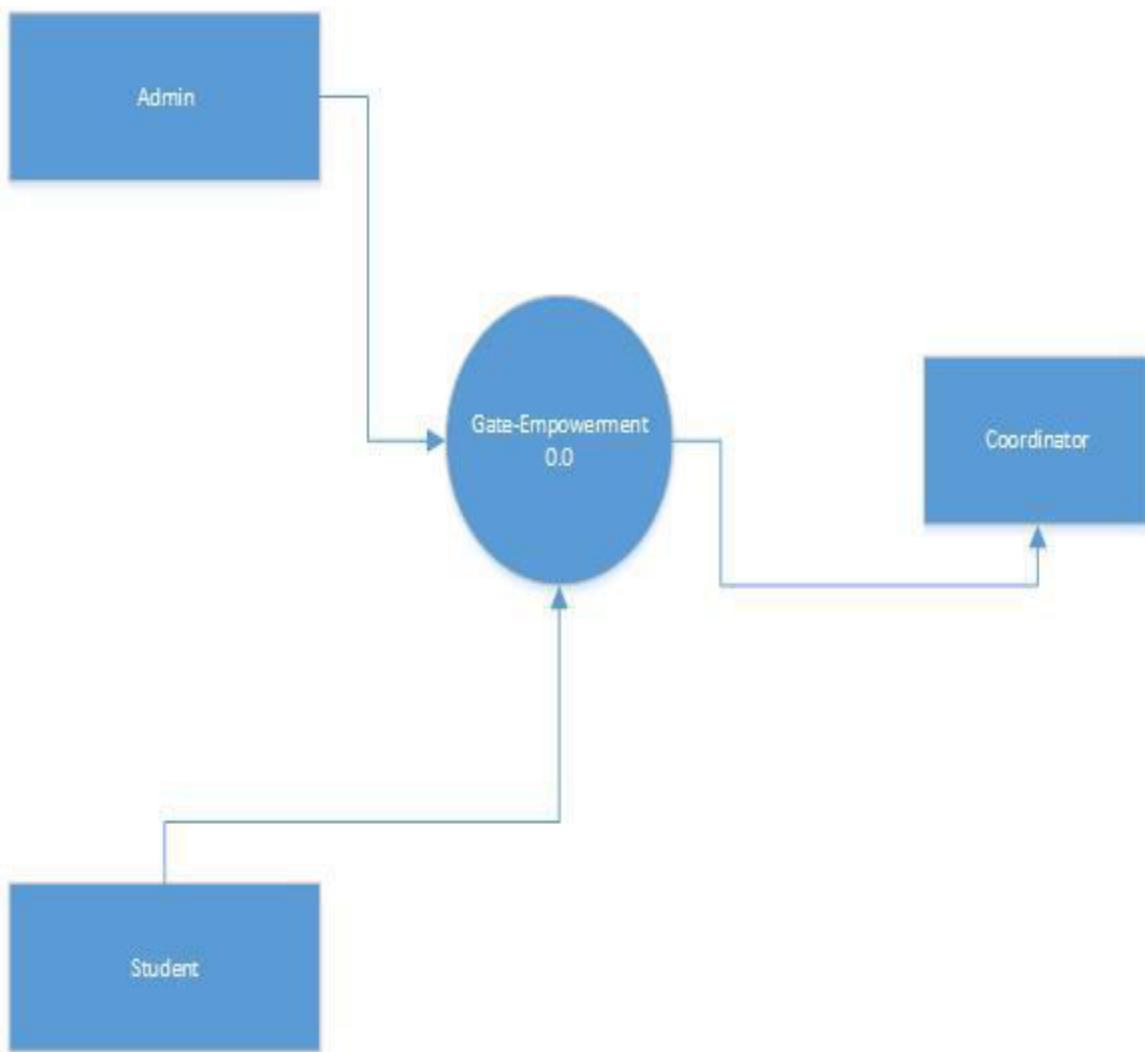
Generated using DbSchema

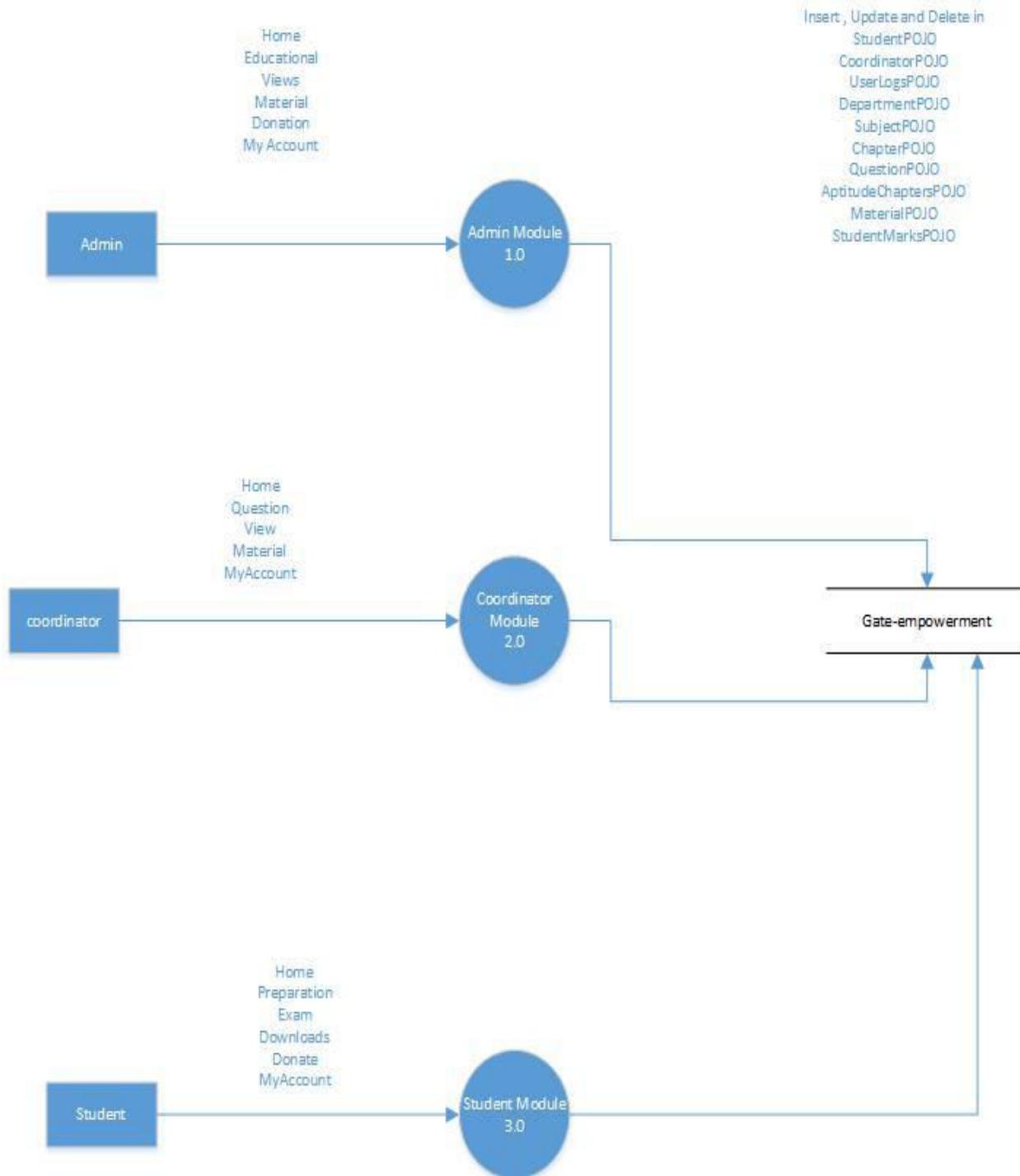
## STRUTS-CONFIG.XML FILE OF GATE-EMPOWERMENT.

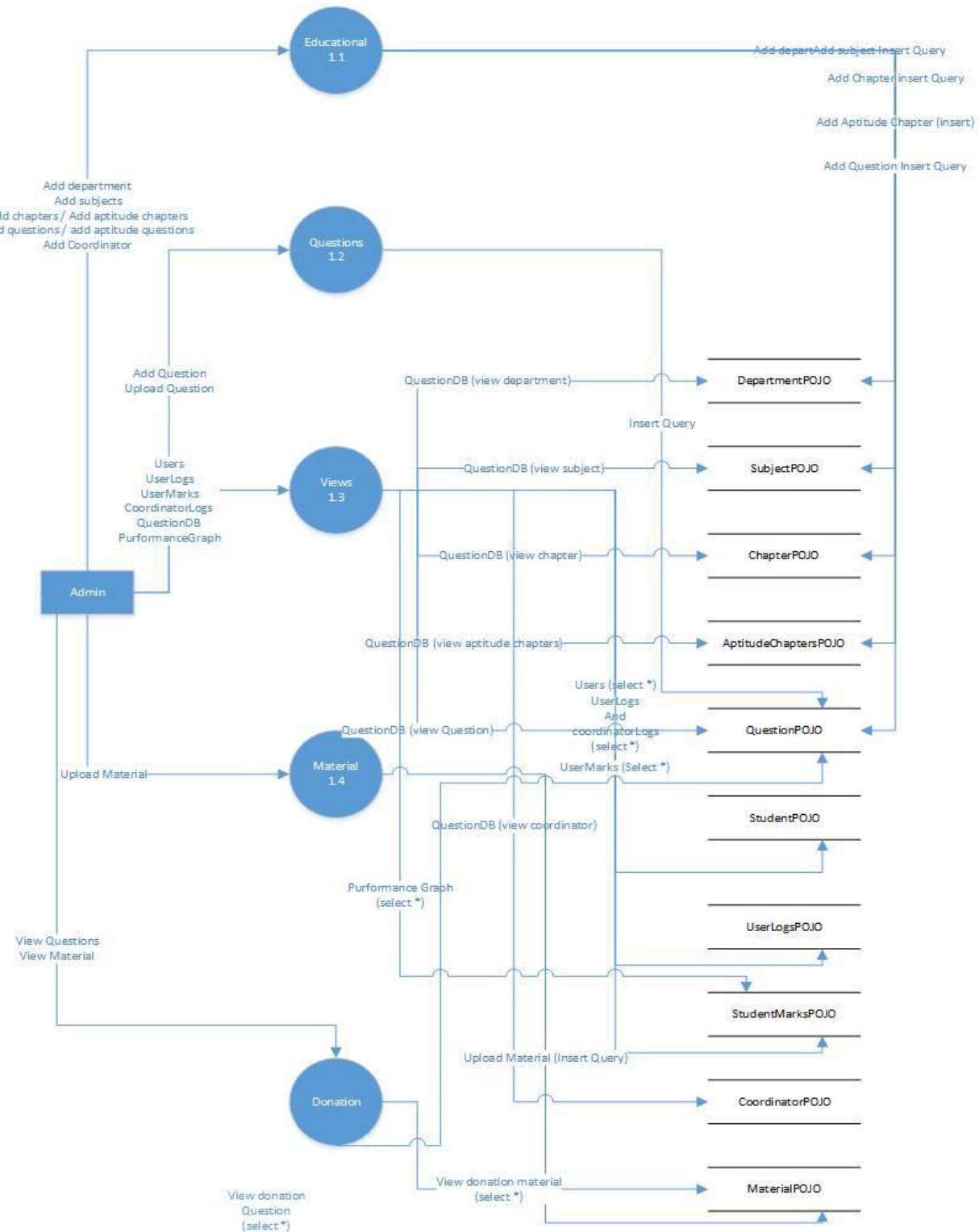


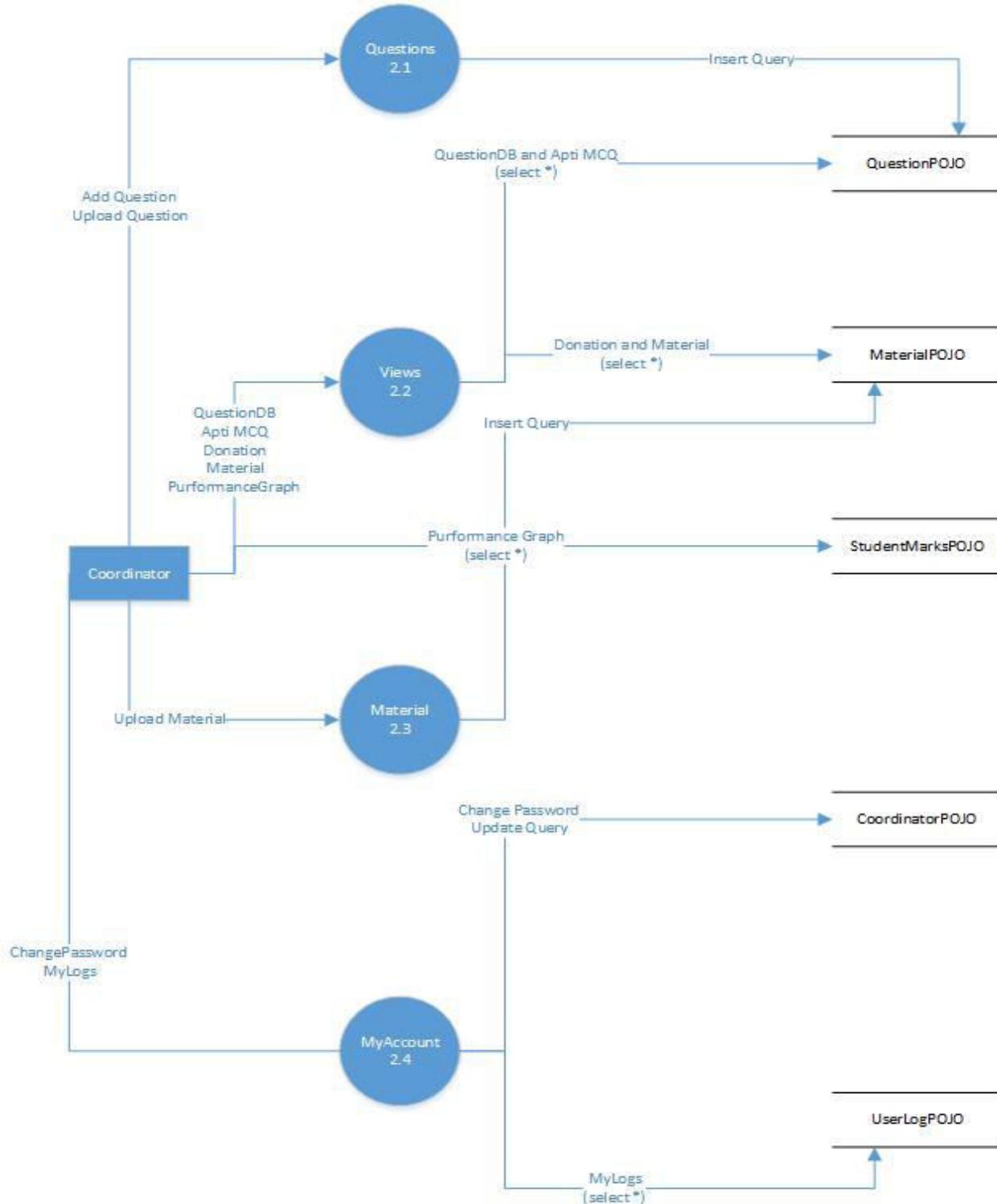
## 5.6 DATA FLOW DIAGRAMS:

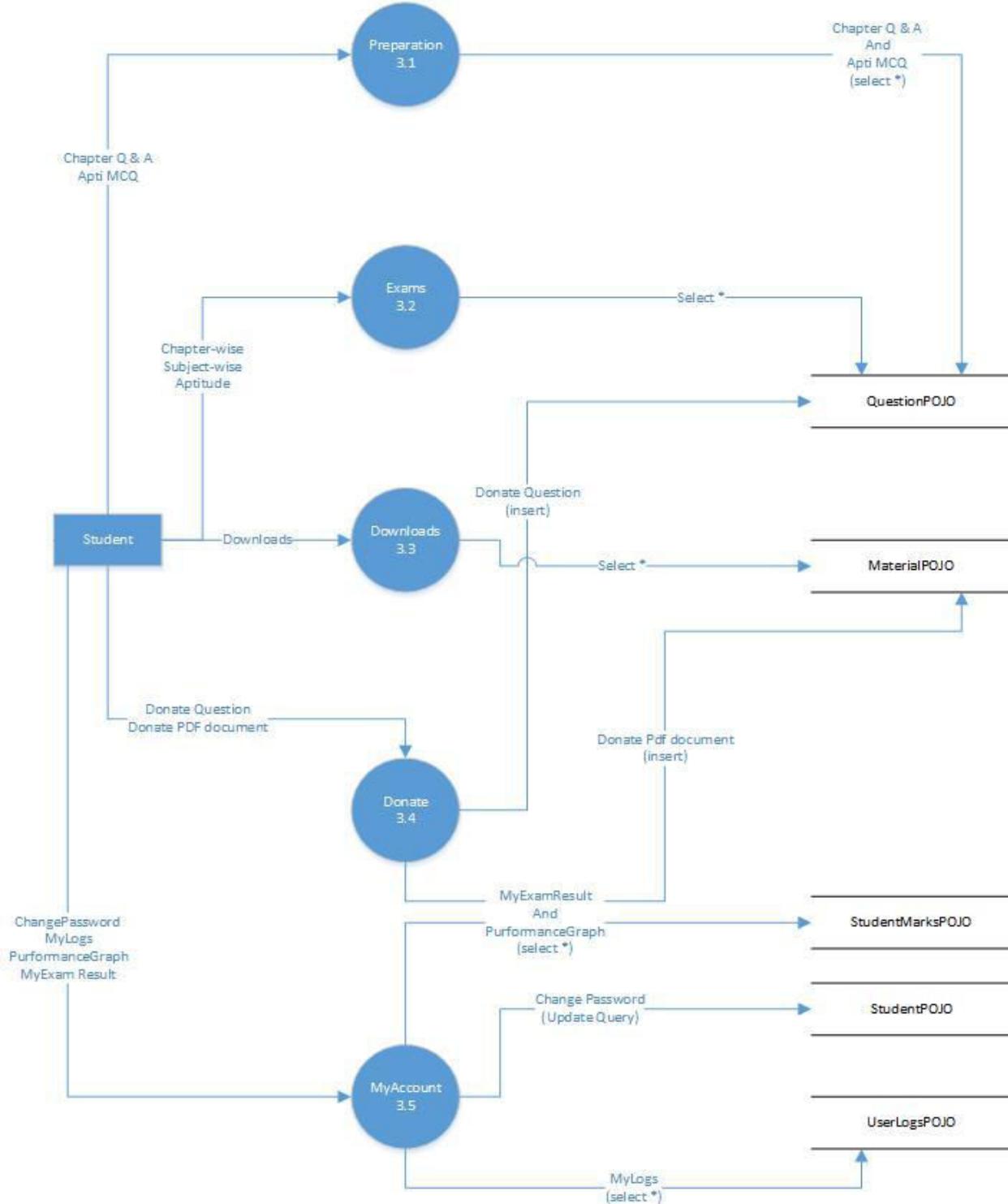
### CONTEXT LEVEL DIAGRAM OR DFD LEVEL-0



**DFD LEVEL-1**

**DFD LEVE-2 FOR ADMIN**

**DFD LEVE-2 FOR COORDINATOR**

**DFD LEVEL-2 FOR STUDENT**

## 6. SYSTEM SNAPSHOTS:

### ADMIN :

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Admin Login

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Admin-Home

**GATE Empowerment @ Admin**

Home  
About Us

**Educational**  
Add Department **Selected**  
Add Subjects  
Add Chapters  
Add Coordinator

**Questions**  
Add Question  
Upload Questions

**Views**  
Users  
User Logs  
User Marks  
Coordinator Logs  
Question DB  
Performance Graph

**Material**  
Upload Material

**Donation**  
View Questions  
View Material

**MyAccount**  
LogOut

© U.V.Patel College Of Engineering ([visit here](#))

## Add Department

**GATE Empowerment @ Admin**

Home  
About Us

**Educational**  
Add Department **Selected**  
Add Subjects  
Add Chapters  
Add Coordinator

**Questions**  
Add Question  
Upload Questions

**Views**  
Users  
User Logs  
User Marks  
Coordinator Logs  
Question DB  
Performance Graph

**Material**  
Upload Material

**Donation**  
View Questions  
View Material

**MyAccount**  
LogOut

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Add Department – successful

**GATE Empowerment @ Admin**

Home  
About Us

**Educational**  
Add Department  
**Add Subjects**  
Add Chapters  
Add Coordinator

**Questions**  
Add Question  
Upload Questions

**Views**  
Users  
User Logs  
User Marks  
Coordinator Logs  
Question DB  
Performance Graph

**Material**  
Upload Material

**Donation**  
View Questions  
View Material

**MyAccount**  
LogOut

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### Add – Subject

**GATE Empowerment @ Admin**

Home  
About Us

**Educational**  
Add Department  
**Add Subjects**  
Add Chapters  
Add Coordinator

**Questions**  
Add Question  
Upload Questions

**Views**  
Users  
User Logs  
User Marks  
Coordinator Logs  
Question DB  
Performance Graph

**Material**  
Upload Material

**Donation**  
View Questions  
View Material

**MyAccount**  
LogOut

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### Add Subject – Successful

**GATE Empowerment @ Admin**

Home  
About Us

**Educational**  
Add Department  
**Add Subjects**  
Add Chapters  
Add Coordinator

**Questions**  
Add Question  
Upload Questions

**Views**  
Users  
User Logs  
User Marks  
Coordinator Logs  
Question DB  
Performance Graph

**Material**  
Upload Material

**Donation**  
View Questions  
View Material

**MyAccount**  
LogOut

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Error – if subject already exists in Department

**GATE Empowerment @ Admin**

Home  
About Us

**Educational**  
Add Department  
Add Subjects  
**Add Chapters**  
Add Coordinator

**Questions**  
Add Question  
Upload Questions

**Views**  
Users  
User Logs  
User Marks  
Coordinator Logs  
Question DB  
Performance Graph

**Material**  
Upload Material

**Donation**  
View Questions  
View Material

**MyAccount**  
LogOut

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Add Chapters (Step-1)

**GATE Empowerment @ Admin**

Home  
About Us

**Educational**  
Add Department  
Add Subjects  
**Add Chapters**  
Add Coordinator

Questions  
Add Question  
Upload Questions

Views  
Users  
User Logs  
User Marks  
Coordinator Logs  
Question DB  
Performance Graph

Material  
Upload Material

Donation  
View Questions  
View Material

**MyAccount**  
LogOut

Chapter Add Form  
Step-2

**Subject**: Theory of machine  
select Subject

**Chapter**: Introduction  
name of the chapter

**Add**

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### Add Chapters (Step-2)

**GATE Empowerment @ Admin**

Home  
About Us

**Educational**  
Add Department  
Add Subjects  
**Add Chapters**  
Add Coordinator

Questions  
Add Question  
Upload Questions

Views  
Users  
User Logs  
User Marks  
Coordinator Logs  
Question DB  
Performance Graph

Material  
Upload Material

Donation  
View Questions  
View Material

**MyAccount**  
LogOut

chapter Add Form  
Step-1

**chapter successfully added**

**Department**: select department

**Next**

[@ Click here to Add chapters for Aptitude.](#)

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### Add Chapters –successful

**GATE Empowerment @ Admin**

Home  
About Us

Educational  
Add Department  
Add Subjects  
**Add Chapters**  
Add Coordinator

Questions  
Add Question  
Upload Questions

Views  
Users  
User Logs  
User Marks  
Coordinator Logs  
Question DB  
Performance Graph

Material  
Upload Material

Donation  
View Questions  
View Material

**MyAccount**  
LogOut

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### Add Chapters – Aptitude

**GATE Empowerment @ Admin**

Home  
About Us

Educational  
Add Department  
Add Subjects  
**Add Chapters**  
Add Coordinator

Questions  
Add Question  
Upload Questions

Views  
Users  
User Logs  
User Marks  
Coordinator Logs  
Question DB  
Performance Graph

Material  
Upload Material

Donation  
View Questions  
View Material

**MyAccount**  
LogOut

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### Add Chapters – Aptitude – Successful

**GATE Empowerment @ Admin**

The screenshot shows the 'Aptitude chapter Add Form' with the error message 'this chapter already exists...' displayed above the input field. The 'ChapterName' field contains 'aptitude category chapter'. Below the form is a link to add chapters for subjects.

**Home**  
About Us

**Educational**  
Add Department  
Add Subjects  
**Add Chapters**  
Add Coordinator

**Questions**  
Add Question  
Upload Questions

**Views**  
Users  
User Logs  
User Marks  
Coordinator Logs  
Question DB  
Performance Graph

**Material**  
Upload Material

**Donation**  
View Questions  
View Material

**MyAccount**  
LogOut

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Add Chapters – Aptitude –error if chapter already exists

**GATE Empowerment @ Admin**

The screenshot shows the 'Coordinator Add Form' with 'Step-1' indicated. A dropdown menu for 'Department' is open, showing 'select department'. A 'Next' button is visible below the dropdown.

**Home**  
About Us

**Educational**  
Add Department  
Add Subjects  
**Add Chapters**  
**Add coordinator**

**Questions**  
Add Question  
Upload Questions

**Views**  
Users  
User Logs  
User Marks  
Coordinator Logs  
Question DB  
Performance Graph

**Material**  
Upload Material

**Donation**  
View Questions  
View Material

**MyAccount**  
LogOut

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Add Coordinator (step-1)

**GATE Empowerment @ Admin**

Coordinator Add Form

Step-2

Name	Raxit
name of the coordinator	
Email	abcdefg@gmail.com
email of the coordinator	
Password	*****
coordinator Password	
Subject	Theory of machine
select subject	
<input type="button" value="Add"/>	

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### Add Coordinator (Step-2)

**GATE Empowerment @ Admin**

Coordinator Add Form

Step-1

**coordinator successfully added**

Department	<input type="button" value="select department"/>
<input type="button" value="Next"/>	

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### Add Coordinator – successful

**GATE Empowerment @ Admin**

The screenshot shows a sidebar menu with various administrative options like Home, Educational, Questions, Views, Material, and MyAccount. The 'Questions' section has 'Add Question' selected. The main content area is titled 'Coordinator Add Form' and 'Step-1'. It contains a dropdown menu labeled 'Department' with the placeholder 'select department'. A red error message 'this email id already exist' is displayed above the dropdown. A 'Next' button is at the bottom right.

Add Coordinator – Error if coordinator email id already exists in department → subject

**GATE Empowerment @ Admin**

The sidebar menu is identical to the previous screenshot. The main content area is titled 'Que Add Form' and 'Step-1'. It contains a dropdown menu labeled 'Department' with the placeholder 'select department'. Below the dropdown, a link '@ Click here to Add Question for Aptitude.' is visible. A 'Next' button is at the bottom right.

Add Question (Step-1)

**GATE Empowerment @ Admin**

Que Add Form  
Step-2

**Subject** Theory of machine  
select subject

Next

**Home**  
About Us

**Educational**  
Add Department  
Add Subjects  
Add Chapters  
Add Coordinator

**Questions**  
**Add Question** (highlighted)  
Upload Questions

**Views**  
Users  
User Logs  
User Marks  
Coordinator Logs  
Question DB  
Performance Graph

**Material**  
Upload Material

**Donation**  
View Questions  
View Material

**MyAccount**  
LogOut

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### Add Question (Step-2)

**GATE Empowerment @ Admin**

Que Add Form  
Step-3

**Chapter** Introduction  
select chapter

**Question** what is machine?  
write question

**A** Electrical device  
option A

**B** physical device  
option B

**C** both A and B  
option C

**D** none  
option D

**Answer** B  
right answer

**Description** bla bla bla bla...  
description about ans

Add

**Home**  
About Us

**Educational**  
Add Department  
Add Subjects  
Add Chapters  
Add Coordinator

**Questions**  
**Add Question** (highlighted)  
Upload Questions

**Views**  
Users  
User Logs  
User Marks  
Coordinator Logs  
Question DB  
Performance Graph

**Material**  
Upload Material

**Donation**  
View Questions  
View Material

**MyAccount**  
LogOut

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### Add Question (Step-3)

**GATE Empowerment @ Admin**

The screenshot shows a sidebar menu with categories like Home, Educational, Questions, Views, Material, and MyAccount. Under Questions, 'Add Question' is selected. The main area displays a form titled 'Que Add Form' with a step indicator 'Step-1'. It shows a success message 'question added successfully...'. A dropdown menu labeled 'Department' is shown with the placeholder 'select department'. A 'Next' button is at the bottom.

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Add Question – successful

**GATE Empowerment @ Admin**

The sidebar menu is identical to the previous screenshot. The main area shows the same 'Que Add Form' Step-1 screen, but the message is now 'question already exists...'. The dropdown 'Department' field is still empty. A 'Next' button is at the bottom.

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Add Question – Error if question already exists in department → subject → chapter

**GATE Empowerment @ Admin**

Home  
About Us

Educational  
Add Department  
Add Subjects  
Add Chapters  
Add Coordinator

Questions  
**Add Question**  
Upload Questions

Views  
Users  
User Logs  
User Marks  
Coordinator Logs  
Question DB  
Performance Graph

Material  
Upload Material

Donation  
View Questions  
View Material

**MyAccount**  
LogOut

**Aptitude Que Add Form**

**Chapter** L.C.M and M.C.M  
select chapter

**Question** bla bla bla  
write question

**A** askdjf  
option A

**B** kqjaksdjf  
option B

**C** kijksdf  
option C

**D** skjdf  
option D

**Answer** A  
right answer

**Description** description about ans  
description about ans

**Add**

@click here to add questions in subjects

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## Add Question – Aptitude

**GATE Empowerment @ Admin**

Home  
About Us

Educational  
Add Department  
Add Subjects  
Add Chapters  
Add Coordinator

Questions  
**Add Question**  
**Upload Questions**

Views  
Users  
User Logs  
User Marks  
Coordinator Logs  
Question DB  
Performance Graph

Material  
Upload Material

Donation  
View Questions  
View Material

**MyAccount**  
LogOut

**Que Upload Form**

**Step-1**

**Department** select department

**Next**

@click here to upload question in Aptitude.

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## Upload Question (Step-1)

**GATE Empowerment @ Admin**

Que Upload Form  
Step-2

Subject: Theory of machine  
select subject

Next

Home  
About Us  
**Educational**  
Add Department  
Add Subjects  
Add Chapters  
Add Coordinator  
**Questions**  
Add Question  
**Upload Questions**  
Views  
Users  
User Logs  
User Marks  
Coordinator Logs  
Question DB  
Performance Graph  
**Material**  
Upload Material  
**Donation**  
View Questions  
View Material  
**MyAccount**  
LogOut

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### Upload Question (Step-2)

**GATE Empowerment @ Admin**

Que Upload Form  
Step-3

Chapter: Introduction  
select chapter

Next

Home  
About Us  
**Educational**  
Add Department  
Add Subjects  
Add Chapters  
Add Coordinator  
**Questions**  
Add Question  
**Upload Questions**  
Views  
Users  
User Logs  
User Marks  
Coordinator Logs  
Question DB  
Performance Graph  
**Material**  
Upload Material  
**Donation**  
View Questions  
View Material  
**MyAccount**  
LogOut

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### Upload Question (Step-3)

**GATE Empowerment @ Admin**

Home  
About Us

Educational  
Add Department  
Add Subjects  
Add Chapters  
Add Coordinator

Questions  
Add Question  
**Upload Questions**

Views  
Users  
User Logs  
User Marks  
Coordinator Logs  
Question DB  
Performance Graph

Material  
Upload Material

Donation  
View Questions  
View Material

MyAccount  
LogOut

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### Upload Question (Step-4)

**GATE Empowerment @ Admin**

Home  
About Us

Educational  
Add Department  
Add Subjects  
Add Chapters  
Add Coordinator

Questions  
Add Question  
**Upload Questions**

Views  
Users  
User Logs  
User Marks  
Coordinator Logs  
Question DB  
Performance Graph

Material  
Upload Material

Donation  
View Questions  
View Material

MyAccount  
LogOut

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### Upload Question – successful

GATE Empowerment @ Admin

The screenshot shows the 'Que Upload Form' interface. On the left is a sidebar with navigation links for Home, Educational (Add Department, Add Subjects, Add Chapters, Add Coordinator), Questions (Add Question, Upload Questions - highlighted in blue), Views (Users, User Logs, User Marks, Coordinator Logs, Question DB, Performance Graph), Material (Upload Material), Donation (View Questions, View Material), and MyAccount (Logout). The main area is titled 'Que Upload Form' and 'Step-1'. It displays a message 'No questions uploaded...' and a dropdown menu labeled 'Department' with the placeholder 'select department'. A 'Next' button is at the bottom. Below the form is a note '@click here to upload question in Aptitude.'

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Upload Question- question will not get uploaded if it already exists

The screenshot shows a Notepad++ window with the file path C:\Users\rax\Documents\n-1.txt. The content of the file is as follows:

```

1 Segmentation done in ?
2 Transport layer
3 Network Layer
4 Datalink Layer
5 Physical Layer
6 A
7 Read chapter-1 from Data Communication and networking - B.S.Forozun
8 @
9 Network Layer Activities are ?
10 Logical Addressing
11 Port Addressing
12 Access Control
13 All of these
14 A
15 Read chapter-1 from Data Communication and networking - B.S.Forozun
16 @
17 How to Hop delivery is related to ?
18 Datalink Layer
19 Network Layer
20 Transport Layer
21 All of these
22 A
23 Read chapter-1 from Data Communication and networking - B.S.Forozun
24 @
25 Process to Process delivery is related to ?
26 Datalink Layer
27 Network layer
28 Transport layer
29 all of these
30 C
31 Read chapter-1 from Data Communication and networking - B.S.Forozun
32 @
33 Synchronization of bits is done by ?
34 Datalink Layer

```

The status bar at the bottom shows: length : 10147 lines : 400 Ln:1 Col:1 Sel:0|0 Dos\Windows ANSI INS. The system tray shows icons for network, battery, volume, and date/time (5:12 PM, 4/6/2014). An 'Activate Windows' watermark is visible.

Question upload formate (.txt files only)

Formate

Line-1 → Question

Line-2 → Option A

Line-3 → Option B

Line-4 → Option C

Line-5 → Option D

Line-6 → Answer

Line-7 → Description

Line-8 → "@" symball

If the .txt file is not having the require format then it will gives an error.

The screenshot shows a Notepad++ window with the title bar "\*new 2 - Notepad++". The menu bar includes File, Edit, Search, View, Encoding, Language, Settings, Macro, Run, Plugins, Window, and Help. The toolbar has icons for Open, Save, Find, Replace, and Print. The status bar at the bottom shows "Normal text file", "length : 187 lines : 15", "Ln : 15 Col : 6 Sel : 0 | 0", "Dos\Windows", "ANSI", "INS", and "5:16 PM 4/6/2014". The main text area contains 15 lines of random text, starting with "1 sdfklasdfkjasldfjsajdkf" and ending with "15 osadf". A watermark in the center right says "Activate Windows Go to PC settings to activate Windows." Below the status bar is a toolbar with icons for various applications like Internet Explorer, File Explorer, Google Chrome, and Microsoft Word.

This is wrong format .txt file.

Lets see what happens if I try to upload it.

The screenshot shows a web application interface titled "GATE Empowerment @ Admin". The left sidebar has a navigation menu with links: Home, Educational (Add Department, Add Subjects, Add Chapters, Add Coordinator), Questions (Add Question, Upload Questions, selected), Views (Users, User Logs, User Marks, Coordinator Logs, Question DB, Performance Graph), Material (Upload Material), Donation (View Questions, View Material), and MyAccount (Logout). The main content area has a title "Que Upload Form" and "Step-1". It displays an error message: "Your Question formate having error (ArrayIndexOutOfBoundsException)". There is a dropdown menu labeled "Department" with the placeholder "select department" and a "Next" button. At the bottom, there is a link "@click here to upload question in Aptitude." and a copyright notice: "© U.V.Patel College Of Engineering (visit here)".

Gives formate error.

Array Index out of Bound.

**GATE Empowerment @ Admin**

ID	Name	Email	Department	Date Time	Phone	Protocol	Delete
5	raxit	engineering@gmail.com	CE / IT	04/04/2014 18:08:47	919099663544	0	<a href="#">delete</a>
4	Nikita	nikita@gmail.com	CE / IT	04/04/2014 18:08:27	86439032	0	<a href="#">delete</a>
3	tushar	raxit.dhandukiya@gmail.com	CE / IT	12/02/2014 18:32:04	9099663544	0	<a href="#">delete</a>
2	abc	abc@gmail.com	CE / IT	06/02/2014 12:12:13	9824145458	0	<a href="#">delete</a>
1	Raxit	engineerraxit@gmail.com	CE / IT	06/02/2014 11:48:15	9099663544	0	<a href="#">delete</a>

Export options: [CSV](#) | [Excel](#) | [XML](#) | [PDF](#)

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### View Users (Students)

Admin access : - Admin can delete the users. + search user department wise. + export option

**GATE Empowerment @ Admin**

ID	Date Time	Name	Email	Department
122	04/04/2014 18:22:00	Raxit	engineerraxit@gmail.com	CE / IT
120	04/04/2014 12:20:26	Raxit	engineerraxit@gmail.com	CE / IT
119	03/04/2014 11:35:17	Raxit	engineerraxit@gmail.com	CE / IT
118	01/04/2014 13:03:50	Raxit	engineerraxit@gmail.com	CE / IT
117	01/04/2014 12:57:18	Raxit	engineerraxit@gmail.com	CE / IT
116	01/04/2014 12:10:38	Raxit	engineerraxit@gmail.com	CE / IT
113	26/03/2014 16:08:33	Raxit	engineerraxit@gmail.com	CE / IT
111	24/03/2014 11:01:55	Raxit	engineerraxit@gmail.com	CE / IT
110	24/03/2014 10:27:37	Raxit	engineerraxit@gmail.com	CE / IT
109	23/03/2014 18:29:31	Raxit	engineerraxit@gmail.com	CE / IT

Export options: [CSV](#) | [Excel](#) | [XML](#) | [PDF](#)

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User Logs - (Internal table sorting in descending order. + search logs + export option)

**GATE Empowerment @ Admin**

ID	Email	Department	Date/Time	type	Marks
17	engineerraxit@gmail.com	CE/IT	04/04/2014 12:42:53	general	7
16	engineerraxit@gmail.com	CE/IT	03/04/2014 11:36:02	subject-wise	9
15	engineerraxit@gmail.com	CE/IT	03/04/2014 11:35:47	subject-wise	9
14	engineerraxit@gmail.com	CE/IT	01/04/2014 12:47:12	general	7
13	engineerraxit@gmail.com	CE/IT	01/04/2014 12:47:01	general	5
12	engineerraxit@gmail.com	CE/IT	01/04/2014 12:46:46	general	7
11	engineerraxit@gmail.com	CE/IT	01/04/2014 12:39:02	general	4
10	engineerraxit@gmail.com	CE/IT	01/04/2014 12:38:56	general	4
9	engineerraxit@gmail.com	CE/IT	01/04/2014 12:38:39	general	5
8	engineerraxit@gmail.com	CE/IT	01/04/2014 12:38:24	general	2

Export options: [CSV](#) | [Excel](#) | [XML](#) | [PDF](#)

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## User Marks

Two level hierarchy.

(1)search by exam type (2) search by student's attribute + export option

**GATE Empowerment @ Admin**

ID	Date/Time	Name	Email	Department
121	04/04/2014 13:36:43	Raxit	engineerraxit@gmail.com	CE/IT
115	01/04/2014 11:59:49	Raxit	engineerraxit@gmail.com	CE/IT
114	01/04/2014 11:08:06	Raxit	engineerraxit@gmail.com	CE/IT
112	24/03/2014 15:24:24	Raxit	engineerraxit@gmail.com	CE/IT
104	23/03/2014 13:35:00	Raxit	engineerraxit@gmail.com	CE/IT
103	21/03/2014 16:34:52	Raxit	engineerraxit@gmail.com	CE/IT
102	21/03/2014 16:34:37	Raxit	engineerraxit@gmail.com	CE/IT
101	21/03/2014 14:35:33	Raxit	engineerraxit@gmail.com	CE/IT
100	21/03/2014 14:30:58	Raxit	engineerraxit@gmail.com	CE/IT
99	21/03/2014 14:27:58	Raxit	engineerraxit@gmail.com	CE/IT

Export options: [CSV](#) | [Excel](#) | [XML](#) | [PDF](#)

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Coordinator logs (table shorting in descending order)

**GATE Empowerment @ Admin**

- Home**
  - About Us
- Educational**
  - Add Department
  - Add Subjects
  - Add Chapters
  - Add Coordinator
- Questions**
  - Add Question
  - Upload Questions
- Views**
  - Users
  - User Logs
  - User Marks
  - Coordinator Logs
- Question DB**
- Performance Graph
- Material**
  - Upload Material
- Donation**
  - View Questions
  - View Material
- MyAccount**
  - LogOut

[Department](#)  
[Subject](#)  
[Chapters](#)  
[Questions](#)  
[Material](#)  
[Coordinator](#)  
[Aptitude](#)  
[Apti. MCQ](#)

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## Question DB.

Contains all the table information with administrator access.

Eg. View departments , view subjects , view chapters, view questions, view material ,view coordinator , view aptitude chapters , and aptitude MCQ.

(Logical concept : Hierarchy Deletation.)

**GATE Empowerment @ Admin**

- Home**
  - About Us
- Educational**
  - Add Department
  - Add Subjects
  - Add Chapters
  - Add Coordinator
- Questions**
  - Add Question
  - Upload Questions
- Views**
  - Users
  - User Logs
  - User Marks
  - Coordinator Logs
- Question DB**
- Performance Graph
- Material**
  - Upload Material
- Donation**
  - View Questions
  - View Material
- MyAccount**
  - LogOut

5 items found, displaying all items.

Departments		
ID	Department	Delete
1	CE/IT	<a href="#">delete</a>
3	EC	<a href="#">delete</a>
6	Marine	<a href="#">delete</a>
11	YAP	<a href="#">delete</a>
12	Automobile	<a href="#">delete</a>

Export options: [CSV](#) | [Excel](#) | [XML](#) | [PDF](#)

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### Hierarchy Delete.

This is the Hierarchy of the system

Department → subject → chapter → Question

Eg. Suppose I want to delete particular department , the basic condition to delete the department is that there should be no subject in subject table under this department , if one subject exists under the particular department then I can not delete it.

See below image,

I have tried to delete CE/IT department . but there are three subjects under CE/IT department, so one error message will be displayed.

The screenshot shows a web-based administration interface titled "GATE Empowerment @ Admin". On the left, there is a vertical sidebar menu with several categories: Home, Educational (with sub-options Add Department, Add Subjects, Add Chapters, Add Coordinator), Questions (with sub-options Add Question, Upload Questions), Views (with sub-options Users, User Logs, User Marks, Coordinator Logs, Question DB, Performance Graph), Material (with sub-option Upload Material), Donation (with sub-options View Questions, View Material), and MyAccount (with sub-option LogOut). The "Question DB" option under the "Views" category is highlighted with a light blue background. The main content area displays a yellow "DANGER" sign icon with the word "OOPS!" written on it. Below the icon, a red error message reads "You can not delete this Department because it is not empty..". At the bottom right of the message, there is a link "Go to QuestionDB". At the very bottom of the page, there is a small copyright notice: "© U.V.Patel College Of Engineering (visit here)".

Same concept applied to remaining hierarchy.

**GATE Empowerment @ Admin**

- Home**
- About Us
- Educational**
  - Add Department
  - Add Subjects
  - Add Chapters
  - Add Coordinator
- Questions**
  - Add Question
  - Upload Questions
- Views**
  - Users
  - User Logs
  - User Marks
  - Coordinator Logs
  - Question DB**
  - Performance Graph
- Material**
  - Upload Material
- Donation**
  - View Questions
  - View Material
- MyAccount**
  - LogOut

7 items found, displaying all items.

ID	Department	Subject	Subjects	Delete
1	CE /IT	Computer Networks		<a href="#">delete</a>
2	CE /IT	Data Structures		<a href="#">delete</a>
4	EC	Power Electronic		<a href="#">delete</a>
7	Marine	VLSI design		<a href="#">delete</a>
11	YAP	NOP		<a href="#">delete</a>
12	CE /IT	Programming in C		<a href="#">delete</a>
13	Automobile	Theory of machine		<a href="#">delete</a>

Export options: [CSV](#) | [Excel](#) | [XML](#) | [PDF](#)

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## View Subject

(Search by department + export option)

**GATE Empowerment @ Admin**

- Home**
- About Us
- Educational**
  - Add Department
  - Add Subjects
  - Add Chapters
  - Add Coordinator
- Questions**
  - Add Question
  - Upload Questions
- Views**
  - Users
  - User Logs
  - User Marks
  - Coordinator Logs
  - Question DB**
  - Performance Graph
- Material**
  - Upload Material
- Donation**
  - View Questions
  - View Material
- MyAccount**
  - LogOut

8 items found, displaying all items.

ID	Department	Subject	Chapters	Delete
1	CE /IT	Computer Networks	Introduction	<a href="#">delete</a>
2	CE /IT	Data Structures	Introduction	<a href="#">delete</a>
3	EC	Power Electronic	Introduction	<a href="#">delete</a>
4	CE /IT	Computer Networks	raxit	<a href="#">delete</a>
5	Marine	VLSI design	Introduction	<a href="#">delete</a>
8	YAP	NOP	Introduction	<a href="#">delete</a>
9	CE /IT	Computer Networks	raxisolanki	<a href="#">delete</a>
10	Automobile	Theory of machine	Introduction	<a href="#">delete</a>

Export options: [CSV](#) | [Excel](#) | [XML](#) | [PDF](#)

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## View Chapter

Two level hierarchy. → search by department + search by subject + export option

**GATE Empowerment @ Admin**

The screenshot shows a left sidebar with navigation links for Home, Educational (Add Department, Add Subjects, Add Chapters, Add Coordinator), Questions (Add Question, Upload Questions), Views (Users, User Logs, User Marks, Coordinator Logs, Question DB, Performance Graph), Material (Upload Material), Donation (View Questions, View Material), and MyAccount (Logout). The main content area displays a search bar and a table titled "Questions". The table has columns for ID, Question, A, B, C, D, Answer, View, Edit, and Delete. 154 items are found, displaying 1 to 10. Below the table are export options: CSV, Excel, XML, PDF.

ID	Question	A	B	C	D	Answer	View	Edit	Delete
1	Segmentation done in ?	Transport layer	Network Layer	Datalink Layer	Physical Layer	A	View	Edit	Delete
2	Newtwork Layer Activities are ?	Logical Addressing	Port Addressing	Access Control	All of these	A	View	Edit	Delete
3	Hop to Hop delivery is related to ?	Datalink Layer	Network Layer	Transport Layer	All of these	A	View	Edit	Delete
4	Forcess to Process delivery is related to ?	Datalink Layer	Network layer	Transport layer	all of these	C	View	Edit	Delete
5	Synchronization of bits is done by ?	Datalink layer	Network Layer	Transport Layer	none of these	D	View	Edit	Delete
6	Which one of the following OSI layers performs error checking of data ?	Network	Transport	Datalink	Physical	C	View	Edit	Delete
7	As the data packet moves form a lower layer to higher layer , the headers are ?	added	removed	re-aranged	modified	B	View	Edit	Delete
8	Flow control is responsibility of ?	Datalink Layer	Transport Layer	Both (A) and (B)	Application Layer	C	View	Edit	Delete
9	Routing is done in ?	Network Layer	Physical Layer	Datalink Layer	Transport Layer	A	View	Edit	Delete
10	which of the following addresses can not be changed ?	Hardware addresss	Logical address	Both (A) and (B)	none of these	A	View	Edit	Delete

Export options: CSV | Excel | XML | PDF

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## View Question

### Three level hierarchy

Search by department → search by subjects → search by chapters + export option

**GATE Empowerment @ Admin**

The sidebar includes Home, Educational, Questions, Views, Material, and MyAccount. The main area shows a search bar and a table titled "Material". The table has columns for Department, Subject, Name, Description, View, and Delete. 5 items are found, displaying all items. Below the table are export options: CSV, Excel, XML, PDF.

Department	Subject	Name	Description	View	Delete
CE / IT	gate	gate manual	abut subject info of gate	Download	Delete
CEIT	assf	asdasasfdsadfdf	asdsasd44fsafdf	Download	Delete
CE / IT	php	php	menual	Download	Delete
CE / IT	java	java	manual	Download	Delete
CE / IT	sdfs	asdf	sadsfasdf	Download	Delete

Export options: CSV | Excel | XML | PDF

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## View Material

Search by departments + export option

**GATE Empowerment @ Admin**

The screenshot shows the 'Coordinator' section of the admin interface. On the left, there's a sidebar with navigation links like Home, Educational, Questions, Views, Material, Donation, and MyAccount. The 'Coordinator' link under 'Questions' is highlighted. The main area has a search bar at the top. Below it, a message says '6 items found, displaying all items.' A table lists six coordinators with columns for ID, Name, Email, Department, Subject, ChangePasswd, and Delete. At the bottom, there are export options for CSV, Excel, XML, and PDF.

ID	Name	Email	Department	Subject	ChangePasswd	Delete
6	Raxit	abcde123@gmail.com	Automobile	Theory of machine	ChangePasswd	Delete
5	raxit	solanki123@gmail.com	CE/IT	Computer Networks	ChangePasswd	Delete
4	Heli	29helishah@gmail.com	CE/IT	Computer Networks	ChangePasswd	Delete
3	raxu	raxit.dhandhukya@gmail.com	CE/IT	Computer Networks	ChangePasswd	Delete
2	nidhi	nidhi@gmail.com	CE/IT	Data Structures	ChangePasswd	Delete
1	Raxit	engineerraxit@gmail.com	CE/IT	Computer Networks	ChangePasswd	Delete

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## View Coordinator

Search by coordinator attributes + table sorting in descending order + export option

**GATE Empowerment @ Admin**

The screenshot shows the 'Aptitude Chapters' section of the admin interface. The sidebar is identical to the previous one. The main area displays a message '3 items found, displaying all items.' followed by a table listing three chapters: Profit and Loss, Average, and L.C.M and M.C.M. Each row has a 'Delete' link. At the bottom, there are export options for CSV, Excel, XML, and PDF.

ID	Chapter	Delete
8	Profit and Loss	<a href="#">delete</a>
9	Average	<a href="#">delete</a>
10	L.C.M and M.C.M	<a href="#">delete</a>

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## View Aptitude Chapters.

**GATE Empowerment @ Admin**

Home About Us  
**Educational** Add Department Add Subjects Add Chapters Add Coordinator  
**Questions** Add Question Upload Questions  
**Views** Users User Logs User Marks Coordinator Logs  
**Question DB** Question DB Graph  
**Material** Upload Material  
**Donation** View Questions View Material  
**MyAccount** LogOut

..... search

52 items found, displaying 1 to 10.  
[First/Prev] 1, 2, 3, 4, 5, 6 [Next/Last]

ID	Question	A	B	C	D	Answer	View	Edit	Delete
1	Segmentation done in ?	Transport layer	Network Layer	Datalink Layer	Physical Layer	A	View	Edit	Delete
2	Newtwork Layer Activities are ?	Logical Addressing	Port Addressing	Access Control	All of these	A	View	Edit	Delete
3	Hop to Hop delivery is related to ?	Datalink Layer	Network Layer	Transport Layer	All of these	A	View	Edit	Delete
4	Forcess to Process delivery is related to ?	Datalink Layer	Network layer	Transport layer	all of these	C	View	Edit	Delete
5	Synchronization of bits is done by ?	Datalink layer	Network Layer	Transport Layer	none of these	D	View	Edit	Delete
6	Which one of the following OSI layers performs error checking of data ?	Network	Transport	Datalink	Physical	C	View	Edit	Delete
7	As the data packet moves form a lower layer to higher layer , the headers are ? added removed re-aranged modified					B	View	Edit	Delete
8	Flow control is responsibility of ?	Datalink Layer	Transport Layer	Both (A) and (B)	Application Layer	C	View	Edit	Delete
9	Routing is done in ?	Network Layer	Physical Layer	Datalink Layer	Transport Layer	A	View	Edit	Delete
10	which of the following addresses can not be changed ?	Hardware addresss	Logical address	Both (A) and (B)	none of these	A	View	Edit	Delete

Export options: CSV | Excel | XML | PDF

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## View Apti. MCQ

**GATE Empowerment @ Admin**

Home About Us  
**Educational** Add Department Add Subjects Add Chapters Add Coordinator  
**Questions** Add Question Upload Questions  
**Views** Users User Logs User Marks Coordinator Logs  
**Question DB** Question DB Graph  
**Material** Upload Material  
**Donation** View Questions View Material  
**MyAccount** LogOut

Purformance Graph

**Step-1**  
select department in which you want to generate purfomance graph

Department  select department

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## Performance Graph (Step-1)

**GATE Empowerment @ Admin**

- Home**
  - About Us
- Educational**
  - Add Department
  - Add Subjects
  - Add Chapters
  - Add Coordinator
- Questions**
  - Add Question
  - Upload Questions
- Views**
  - Users
  - User Logs
  - User Marks
  - Coordinator Logs
  - Question DB
- Performance Graph**
- Material**
  - Upload Material
- Donation**
  - View Questions
  - View Material
- MyAccount**
  - LogOut

[Student Performance](#)
[Over All Performance](#)

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Performance Graph (Step-2)

**GATE Empowerment @ Admin**

- Home**
  - About Us
- Educational**
  - Add Department
  - Add Subjects
  - Add Chapters
  - Add Coordinator
- Questions**
  - Add Question
  - Upload Questions
- Views**
  - Users
  - User Logs
  - User Marks
  - Coordinator Logs
  - Question DB
- Performance Graph**
- Material**
  - Upload Material
- Donation**
  - View Questions
  - View Material
- MyAccount**
  - LogOut

[Subject](#)
[Chapter](#)
[Aptitude](#)

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Performance Graph (Step-3)

**GATE Empowerment @ Admin**

- Home**
  - About Us
- Educational**
  - Add Department
  - Add Subjects
  - Add Chapters
  - Add Coordinator
- Questions**
  - Add Question
  - Upload Questions
- Views**
  - Users
  - User Logs
  - User Marks
  - Coordinator Logs
  - Question DB
- Performance Graph**
- Material**
  - Upload Material
- Donation**
  - View Questions
  - View Material
- MyAccount**
  - LogOut

**Performance Graph for Subject Type**

Note : this for will give result in google graph formate. It will show the result of student obtained in specific Aptitude Chapter

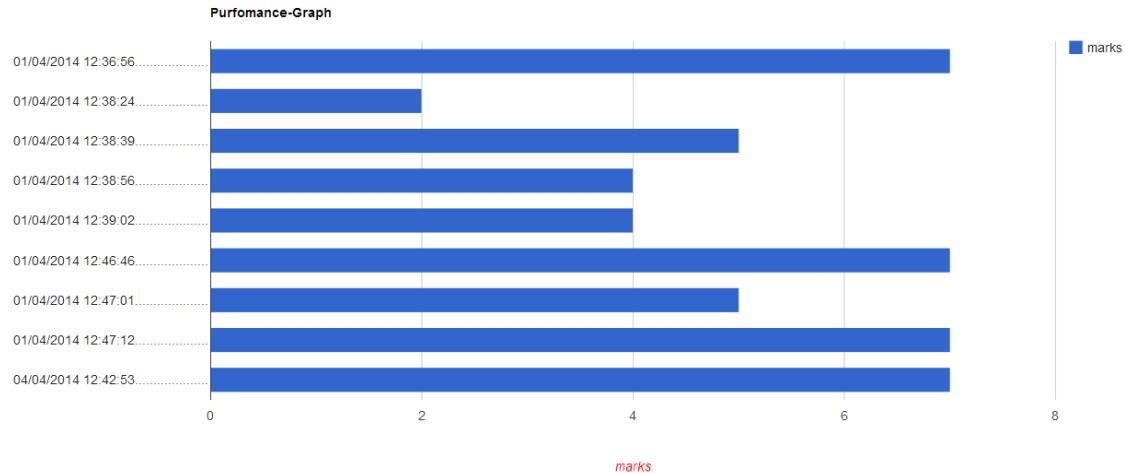
Chapter

select aptitude chapter

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### Performance Graph (Step-4)

Hello this is purfomance graph of Profit and Loss...of subject Aptitude...



### Performance Graph

**GATE Empowerment @ Admin**

Home  
About Us

Educational  
Add Department  
Add Subjects  
Add Chapters  
Add Coordinator

Questions  
Add Question  
Upload Questions

Views  
Users  
User Logs  
User Marks  
Coordinator Logs  
Question DB  
Performance Graph

**Material**  
**Upload Material**

Donation  
View Questions  
View Material

MyAccount  
LogOut

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### Upload Material (Step-1)

**GATE Empowerment @ Admin**

Home  
About Us

Educational  
Add Department  
Add Subjects  
Add Chapters  
Add Coordinator

Questions  
Add Question  
Upload Questions

Views  
Users  
User Logs  
User Marks  
Coordinator Logs  
Question DB  
Performance Graph

**Material**  
**Upload Material**

Donation  
View Questions  
View Material

MyAccount  
LogOut

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### Upload Material (Step-2)

Two more tabs for donation from students . (Question and material)

Admin access : - Accept , Reject , View or Download   (+logout)

## COORDINATOR

Home | Admission | Exam Result | Library | Placements | Alumni | Mail | Contact Us

Gate-Empowerment

**GANPAT UNIVERSITY**  
गणपत विश्वविद्यालय

**U V PATEL COLLEGE OF ENGINEERING**

What we do!

कर्मप्रयोगाधिकारस्ते मा फलेषु कृदाचन।  
मा कर्मफलहेतुभूमी ते साडुगोस्त्वकर्मणि॥

Coordinator Login

Email  Enter EmailID

Password  Enter Password

Login

[Forgot password?](#)

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### Coordinator Login

Home | Admission | Exam Result | Library | Placements | Alumni | Mail | Contact Us

Gate-Empowerment

**GANPAT UNIVERSITY**  
गणपत विश्वविद्यालय

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कर्मप्रयोगाधिकारस्ते मा फलेषु कृदाचन।  
मा कर्मफलहेतुभूमी ते साडुगोस्त्वकर्मणि॥

Forgot passwd form

Email  eg. abc@gmail.com

Submit

Copyright © SecureInfoSoft

### Forgot Password

Coordinator Login

mail successfully sent...!!

Email

Enter EmailID

Password

Enter Password

Login

[Forgot password?](#)

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Forgot password Request successful

Mail is sent to [engineerraxit@gmail.com](mailto:engineerraxit@gmail.com)

Compose

Inbox

Starred

Important

Sent Mail

Drafts

Circles

Search people...

dhruv pandit  
nikky niks  
Aakash Oza  
Ankur Bhalani  
Arpit Patel  
Brinda Jagani  
Devanshi Patel  
Devendra Patel

3.12 GB (20%) of 15 GB used

Manage

Jobs in MNC's ( Urgent ) - monsterindia.com - Exp: 0-6 yrs, Sal: 25K-100K. Submit Resume to Apply Now!

reSetPassword

tarangmirani97@gmail.com to me 17:53 (2 minutes ago)

<http://raxit.8080/GATE-Empowerment/coordinator/resetPass.jsp?07a76c97-b8dd-4f35-bc67-1e082f73ee9f>

Click here to Reply or Forward

Jobs in MNC's ( Urgent )  
Exp: 0-6 yrs, Sal: 25K-100K. Submit Resume to Apply Now!  
monsterindia.com

tarangmirani97 Add to circles Show details

Naukri.com - Submit Resume  
Get Headhunted by Best Recruiters  
Top MNCs, Best Profile, High CTC  
naukri.com

JECRC University Jaipur  
Announces JU B.Tech Online  
Entrance Test 2014. Registration  
Open Now!  
jubtech2014.jecrcuniversity.edu.in

Activate Windows  
Go to PC settings to activate Windows.

Last account activity: 2.5 hours ago

5:56 PM 4/6/2014

Home | Admission | Exam Result | Library | Placements | Alumni | Mail | Contact Us

## Gate-Empowerment

**GANPAT UNIVERSITY**  
બિજુન જ્ઞાનશાળા

**UV PATEL COLLEGE OF ENGINEERING**

What we do!

કર્માંયોગિકારસ્તો મા ફલેચુ કદાચન |  
મા કર્મફલહેતુભૂમિ તે સર્વાંગોસ્ત્રવક્ત્વમોણી ||

Reset password

Password  Level-1

Conform-Password  Level-2

Reset

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### Reset Password Form

Home | Admission | Exam Result | Library | Placements | Alumni | Mail | Contact Us

## Gate-Empowerment

**GANPAT UNIVERSITY**  
બિજુન જ્ઞાનશાળા

**UV PATEL COLLEGE OF ENGINEERING**

What we do!

કર્માંયોગિકારસ્તો મા ફલેચુ કદાચન |  
મા કર્મફલહેતુભૂમિ તે સર્વાંગોસ્ત્રવક્ત્વમોણી ||

Reset password

Password successfully updated..

Password  Level-1

Conform-Password  Level-2

Reset

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Password Successfully Reset

**GATE Empowerment @ Coordinator**

- Home**
- About Us
  
- Questions**
- Add Question
- Upload Questions
  
- Views**
- QuestionDB
- Apti. MCQ
- Donation
- Material
- Performance Graph
  
- Material**
- Upload Material
  
- MyAccount**
- Change Passwd
- My Logs
- LogOut





Hello ,  
 engineerraxit@gmail.com

Hello friends..

This is B.TECH Final Year Project (8th semester Information Technology). I want to give a small introduction of my project to you guys.

This project is a web application built on JavaEE core API (Hibernate 3.2 and Struts 1.3).  
 The application is created under guidance of respected R.D.Vanzara Sir(H.O.D-IT) & K.J.Sarvakar Sir.

**Now focusing on functionality...!!!**

As we know now days GATE (Graduate Aptitude Test of Engineering) is a healthy platform for every engineers to express their knowledge and carve their niche in this fast growing IT-Industry. Application name it self gives light on its functionality."GATE-Empowerment". "Empowerment means – the giving of an ability or enablement or permission"

Gate-Empowerment is a small approach to help the B.Tech students who are willing to appear in GATE-Examination.  
 The application will help to find the direction of preparation for GATE.  
 eg. Auto MCQ test(Chapterwise and Subjectwise).  
 Exam Results  
 QuestionPaper solution  
 Material Downloads  
 and lot more...

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## Coordinator Home

**GATE Empowerment @ Coordinator**

- Home**
- About Us
  
- Questions**
- Add Question
- Upload Questions
  
- Views**
- QuestionDB
- Apti. MCQ
- Donation
- Material
- Performance Graph
  
- Material**
- Upload Material
  
- MyAccount**
- Change Passwd
- My Logs
- LogOut

**Que Add Form**

Chapter	<input type="text"/>
select chapter	
Question	<input type="text"/>
writes question	
A	<input type="text"/>
option A	
B	<input type="text"/>
option B	
C	<input type="text"/>
option C	
D	<input type="text"/>
option D	
Answer	<input type="text"/>
right answer	
Description	<input type="text"/>
description about ans	

@click here to add questions in Aptitude

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## Add Question

**GATE Empowerment @ Coordinator**

**Aptitude Que Add Form**

**Chapter**

**Question**   
write question

**A**   
option A

**B**   
option B

**C**   
option C

**D**   
option D

**Answer**   
right answer

**Description**   
description about ans

@click here to add questions in subjects

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### Add Question Aptitude

**GATE Empowerment @ Coordinator**

**Que Add Form**

**Step-1**

**Chapter**

@click here to upload question in Aptitude.

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### Upload Question (Step-1)

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Que Add Form

Step-2

**File** Choose File No file chosen  
write file path here

GO

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Views  
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Apti. MCQ  
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### Upload Question (Step - 2)

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Aptitude Que Upload Form

Step-1

**Chapter** select chapter

Next

@click here to upload question in subjects.

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### Upload Question – Aptitude

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search

51 items found, displaying 1 to 10.

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Questions									
ID	Question	A	B	C	D	Answer	View	Edit	Delete
51	Segmentation done in ?	Transport layer	Network Layer	Datalink Layer	Physical Layer	A	<a href="#">View</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
52	Newtwork Layer Activities are ?	Logical Addressing	Port Addressing	Access Control	All of these	A	<a href="#">View</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
53	Hop to Hop delivery is related to ?	Datalink Layer	Network Layer	Transport Layer	All of these	A	<a href="#">View</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
54	Porcess to Process delivery is related to ?	Datalink Layer	Network layer	Transport layer	all of these	C	<a href="#">View</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
55	Synchronization of bits is done by ?	Datalink layer	Network Layer	Transport Layer	none of these	D	<a href="#">View</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
56	Which one of the following OSI layers performs error checking of data ?	Network	Transport	Datalink	Physical	C	<a href="#">View</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
57	As the data packet moves form a lower layer to higher layer , the headers are ? added	removed	re-aranged	modified		B	<a href="#">View</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
58	Flow control is responsibility of ?	Datalink Layer	Transport Layer	Both (A) and (B)	Application Layer	C	<a href="#">View</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
59	Routing is done in ?	Network Layer	Physical Layer	Datalink Layer	Transport Layer	A	<a href="#">View</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
60	which of the following addresses can not be changed ?	Hardware addresss	Logical address	Both (A) and (B)	none of these	A	<a href="#">View</a>	<a href="#">Edit</a>	<a href="#">Delete</a>

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## View Question DB

Coordinator Access : - Edit , View , Delete

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search

52 items found, displaying 1 to 10.

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Questions									
ID	Question	A	B	C	D	Answer	View	Edit	Delete
1	Segmentation done in ?	Transport layer	Network Layer	Datalink Layer	Physical Layer	A	<a href="#">View</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
2	Newtwork Layer Activities are ?	Logical Addressing	Port Addressing	Access Control	All of these	A	<a href="#">View</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
3	Hop to Hop delivery is related to ?	Datalink Layer	Network Layer	Transport Layer	All of these	A	<a href="#">View</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
4	Porcess to Process delivery is related to ?	Datalink Layer	Network layer	Transport layer	all of these	C	<a href="#">View</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
5	Synchronization of bits is done by ?	Datalink layer	Network Layer	Transport Layer	none of these	D	<a href="#">View</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
6	Which one of the following OSI layers performs error checking of data ?	Network	Transport	Datalink	Physical	C	<a href="#">View</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
7	As the data packet moves form a lower layer to higher layer , the headers are ? added	removed	re-aranged	modified		B	<a href="#">View</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
8	Flow control is responsibility of ?	Datalink Layer	Transport Layer	Both (A) and (B)	Application Layer	C	<a href="#">View</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
9	Routing is done in ?	Network Layer	Physical Layer	Datalink Layer	Transport Layer	A	<a href="#">View</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
10	which of the following addresses can not be changed ?	Hardware addresss	Logical address	Both (A) and (B)	none of these	A	<a href="#">View</a>	<a href="#">Edit</a>	<a href="#">Delete</a>

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## Aptitude MCQ

Coordinator Access : - Edit , View , Delete

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Material
Question

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## View Donation

(material or question.)

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- Material**
  - Upload Material
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4 items found, displaying all items.

<b>Material</b>				
Department	Subject	Name	Description	option
CE /IT	gate	gate manual	about subject info of gate	
CE /IT	php	php	manual	
CE /IT	java	java	manual	
CE /IT	sdfas	asdf	sadfsadf	

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## View System Material

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**Performance Graph for Subject Type**

Note : this for will give result in google graph formate. It will show the result of student obtained in specific subject

**Student**  student\_email\_id

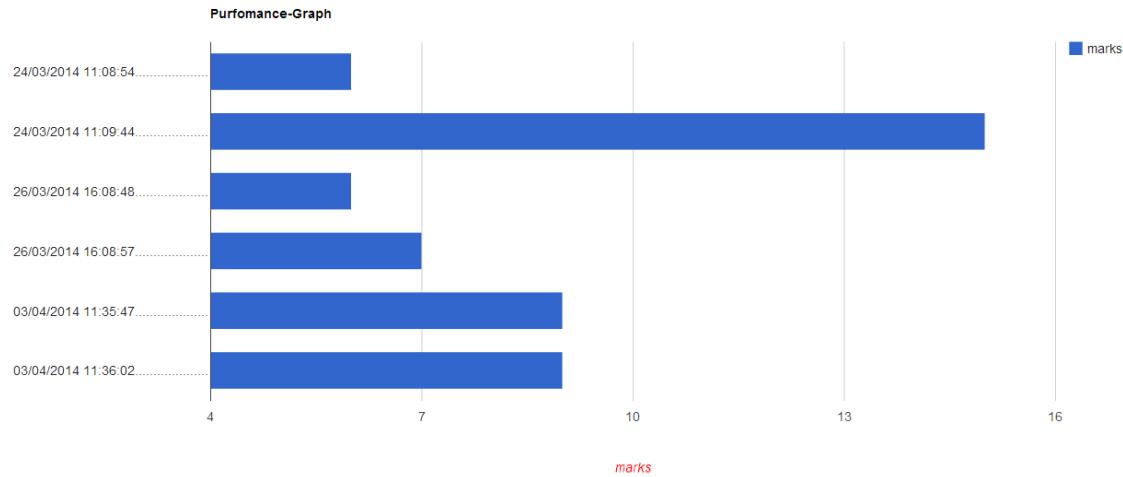
**Result Type**  subject-wise  
eg. chapter-wise or subject-wise

**Next**

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## Performance Graph

Hello this is purfomance graph of engineerraxit@gmail.com



## Graph

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### Change Passwd

**Change Passwd**

Password

Current password

New Password

New password

Update

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## Change Password

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### Change Passwd

**password successfully change..!!**

**Change Passwd**

Password

Current password

New Password

New password

Update

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## Change Password – Successful

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Change Passwd

**current password is wrong..**

**Password**  
Current password

**New Password**  
New password

Update

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Change Password – Error if current password doesn't match with your real password

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ID	DateTime	Name	Email	Department
123	06/04/2014 17:59:12	Raxit	engineerraxit@gmail.com	CE/IT
121	04/04/2014 13:36:43	Raxit	engineerraxit@gmail.com	CE/IT
115	01/04/2014 11:59:49	Raxit	engineerraxit@gmail.com	CE/IT
114	01/04/2014 11:08:06	Raxit	engineerraxit@gmail.com	CE/IT
112	24/03/2014 15:24:24	Raxit	engineerraxit@gmail.com	CE/IT
104	23/03/2014 13:35:00	Raxit	engineerraxit@gmail.com	CE/IT
103	21/03/2014 16:34:52	Raxit	engineerraxit@gmail.com	CE/IT
102	21/03/2014 16:34:37	Raxit	engineerraxit@gmail.com	CE/IT
101	21/03/2014 14:35:33	Raxit	engineerraxit@gmail.com	CE/IT
100	21/03/2014 14:30:58	Raxit	engineerraxit@gmail.com	CE/IT

MyLogs

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## Coordinator Logs.

(Table sorting in descending order + Export option)

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## Gate-Empowerment

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મા કાર્યકલાહેતુંનો તે સાહુગોસ્તવકમેળણ॥

Student Login

Email  
Enter EmailID

Password  
Enter Password

Login

[forgot password?](#)  
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મા કાર્યકલાહેતુંનો તે સાહુગોસ્તવકમેળણ॥

Student Registration

Name  
Enter Your Full name

Department  
select department

Email  
Enter EmailID

Password  
Enter desired Password

Conform Password  
Enter the same Password

Phone  
Enter your phone no

Login

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**Student Registration**

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Hello ,  
engineerraxit@gmail.com

**Hello friends..****This is B.TECH Final Year Project (8th semester Information Technology). I want to give a small introduction of my project to you guys.**

**This project is a web application built on JavaEE core API (Hibernate 3.2 and Struts 1.3).  
The application is created under guidance of respected R.D.Vanzara Sir(H.O.D-IT) & K.J.Sarvakar Sir.**

**Now focusing on functionality...!!!**

**As we know now days GATE (Graduate Aptitude Test of Engineering) is a healthy platform for every engineers to express their knowledge and carve their niche in this fast growing IT-Industry. Application name it self gives light on its functionality."GATE-Empowerment". "Empowerment means – the giving of an ability or enablement or permission"**

**Gate-Empowerment is a small approach to help the B.Tech students who are willing to appear in GATE-Examination.  
The application will help to find the direction of preparation for GATE.  
eg. Auto MCQ test(Chapterwise and Subjectwise).  
Exam Results  
QuestionPaper solution  
Material Downloads  
and lot more...**

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**Chapter Q&A**

**Step-1**

<b>Subject</b>	<input style="width: 100%;" type="text" value="Computer Networks"/>
select subject	
<input style="width: 100px; height: 25px; background-color: #ccc; border: 1px solid #ccc;" type="button" value="Next"/>	

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## Preparaton – Chapter Q&amp;A (step-1)

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**Chapter Q&A**

Step-2

Chapter

Introduction

select chapter

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51 items found, displaying 1 to 10:[First/Prev] [1](#), [2](#), [3](#), [4](#), [5](#), [6](#) [Next/Last]

Question	A	B	C	D	Answer	Description
Segmentation done in ?	Transport layer	Network Layer	Datalink Layer	Physical Layer	A	Read chapter-1 from Data Communication and networking - B.S.Forozun
Newtwork Layer Activities are ?	Logical Addressing	Port Addressing	Access Control	All of these	A	Read chapter-1 from Data Communication and networking - B.S.Forozun
Hop to Hop delivery is related to ?	Datalink Layer	Network Layer	Transport Layer	All of these	A	Read chapter-1 from Data Communication and networking - B.S.Forozun
Porcess to Process delivery is related to ?	Datalink Layer	Network layer	Transport layer	all of these	C	Read chapter-1 from Data Communication and networking - B.S.Forozun
Synchronization of bits is done by ?	Datalink layer	Network Layer	Transport Layer	none of these	D	Read chapter-1 from Data Communication and networking - B.S.Forozun
Which one of the following OSI layers performs error checking of data ?	Network	Transport	Datalink	Physical	C	Read chapter-1 from Data Communication and networking - B.S.Forozun
As the data packet moves form a lower layer to higher layer , the headers are ?	added	removed	re-arrengeed	modified	B	Read chapter-1 from Data Communication and networking - B.S.Forozun
Flow control is responsibility of ?	Datalink Layer	Transport Layer	Both (A) and (B)	Application Layer	C	Read chapter-1 from Data Communication and networking - B.S.Forozun
Routing is done in ?	Network Layer	Physical Layer	Datalink Layer	Transport Layer	A	Read chapter-1 from Data Communication and networking - B.S.Forozun
which of the following addresses can not be changed ?	Hardware address	Logical address	Both (A) and (B)	none of these	A	Read chapter-1 from Data Communication and networking - B.S.Forozun

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### Chapter Q & A preparation

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.....

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## Questions

ID	Question	A	B	C	D	Answer	Description
1	Segmentation done in ?	Transport layer	Network Layer	Datalink Layer	Physical Layer	A	Read chapter-1 from Data Communication and networking - B.S.Forozun
2	Network Layer Activities are ?	Logical Addressing	Port Addressing	Access Control	All of these	A	Read chapter-1 from Data Communication and networking - B.S.Forozun
3	Hop to Hop delivery is related to ?	Datalink Layer	Network Layer	Transport Layer	All of these	A	Read chapter-1 from Data Communication and networking - B.S.Forozun
4	Process to Process delivery is related to ?	Datalink Layer	Network layer	Transport layer	all of these	C	Read chapter-1 from Data Communication and networking - B.S.Forozun
5	Synchronization of bits is done by ?	Datalink layer	Network Layer	Transport Layer	none of these	D	Read chapter-1 from Data Communication and networking - B.S.Forozun
6	Which one of the following OSI layers performs error checking of data ?	Network	Transport	Datalink	Physical	C	Read chapter-1 from Data Communication and networking - B.S.Forozun
7	As the data packet moves form a lower layer to higher layer , the headers are ?	added	removed	re-arranged	modified	B	Read chapter-1 from Data Communication and networking - B.S.Forozun
8	Flow control is responsibility of ?	Datalink Layer	Transport Layer	Both (A) and (B)	Application Layer	C	Read chapter-1 from Data Communication and networking - B.S.Forozun
9	Routing is done in ?	Network Layer	Physical Layer	Datalink Layer	Transport Layer	A	Read chapter-1 from Data Communication and networking - B.S.Forozun
10	which of the following addresses can not be changed ?	Hardware address	Logical address	Both (A) and (B)	none of these	A	Read chapter-1 from Data Communication and networking - B.S.Forozun

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## Aptitude MCQ preparation

(Search by chapter)

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Chapter Test

Step-1

Subject:

Note

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## Chapter-wise Quiz (Step-1)

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**Chapter Test**

**Step-2**

**Chapter**  select chapter

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## Chapter-wise Quiz (Step-2)

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15 items found, displaying all items. 1					09:58
Question	A	B	C	D	
how many cross points are needed in a single-stage switch with 40 inputs and 50 outputs?	40	50	90	2000	<input style="width: 20px; height: 15px; border: 1px solid black; border-radius: 5px;" type="button" value="▼"/>
Synchronization of bits is done by ?	Datalink layer	Network Layer	Transport Layer	none of these	<input style="width: 20px; height: 15px; border: 1px solid black; border-radius: 5px;" type="button" value="▼"/>
Which Protocol Data Unit (PDU) is employed at the Datalink Layer ?	bits	frames	packets	segments	<input style="width: 20px; height: 15px; border: 1px solid black; border-radius: 5px;" type="button" value="▼"/>
Port number is?	Process number	computer's physical address	Both (A) and (B)	none	<input style="width: 20px; height: 15px; border: 1px solid black; border-radius: 5px;" type="button" value="▼"/>
A hub is a---	router	bridge	repeater	all of these	<input style="width: 20px; height: 15px; border: 1px solid black; border-radius: 5px;" type="button" value="▼"/>
Network to Network delivery is done on ?	Netwrok Layer	Transport Layer	Application Layer	Datalink Layer	<input style="width: 20px; height: 15px; border: 1px solid black; border-radius: 5px;" type="button" value="▼"/>
The upper layers of OSI model are, (arrange in correct order) !!	session , application , presentation	session , presentation , application	session , application , presentation , physical	application , presentation , session , physical	<input style="width: 20px; height: 15px; border: 1px solid black; border-radius: 5px;" type="button" value="▼"/>
Modulation and Demodulation are done by...	hub	modem	bridge	none of these	<input style="width: 20px; height: 15px; border: 1px solid black; border-radius: 5px;" type="button" value="▼"/>
Which Protocol Data Unit(PDU) is employed at the Transport Layer?	bits	frames	packets	segments	<input style="width: 20px; height: 15px; border: 1px solid black; border-radius: 5px;" type="button" value="▼"/>
For manchester in coding scheme to send data at 10Mbps the signal has to change -----	10 million times/sec	20 million times/sec	30 million times/sec	5 million times/sec	<input style="width: 20px; height: 15px; border: 1px solid black; border-radius: 5px;" type="button" value="▼"/>
Modulation and Demodulation are done by...	hub	modem	bridge	none of these	<input style="width: 20px; height: 15px; border: 1px solid black; border-radius: 5px;" type="button" value="▼"/>
which layer of OSI model deals with physical transmission across a physical network?	physical	datalink	network	transport	<input style="width: 20px; height: 15px; border: 1px solid black; border-radius: 5px;" type="button" value="▼"/>
Port number is?	Process number	computer's physical address	Both (A) and (B)	none	<input style="width: 20px; height: 15px; border: 1px solid black; border-radius: 5px;" type="button" value="▼"/>
The physical layer is responsible for the transmission of ----- over the physical medium.	packets	bits	message	all of these	<input style="width: 20px; height: 15px; border: 1px solid black; border-radius: 5px;" type="button" value="▼"/>
The part of OSI where one most commonly finds data encryption , compression , and other encoding for network communication is ?	application kater	session layer	presentation layer	none of these	<input style="width: 20px; height: 15px; border: 1px solid black; border-radius: 5px;" type="button" value="▼"/>

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## Quiz

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## Your Result is 2 out of 15

15 items found, displaying all items. 1

## Result

Question	A	B	C	D	Answer	Description
how many cross points are needed in a single-stage switch with 40 inputs and 50 outputs?	40	50	90	2000	D	number of cross points = number of i/p * number of op
Synchronization of bits is done by ?	Datalink layer	Network Layer	Transport Layer	none of these	D	Read chapter-1 from Data Communication and networking - B.S.Forouz
Which Protocol Data Unit (PDU) is employed at the Datalink Layer ?	bits	frames	packets	segments	B	Read chapter-1 from Data Communication and networking - B.S.Forouz
Port number is?	Process number	computer's physical address	Both (A) and (B)	none	A	Read chapter-1 from Data Communication and networking - B.S.Forouz
A hub is a----	router	bridge	repeater	all of these	C	not applicable...
Network to Network delivery is done on ?	Network Layer	Transport Layer	Application Layer	Datalink Layer	A	Read chapter-1 from Data Communication and networking - B.S.Forouz
The upper layers of OSI model are , (arrange in correct order) !!	session , application , presentation	session , presentation , application	application , presentation , physical	application , presentation , session , physical	B	Read chapter-1 from Data Communication and networking - B.S.Forouz
Modulation and Demodulation are done by...	hub	modem	bridge	none of these	B	Modem's full form is modulation-demodulation
Which Protocol Data Unit(PDU) is employed at the Transport Layer?	bits	frames	packets	segments	D	Read chapter-1 from Data Communication and networking - B.S.Forouz
For manchester in coding scheme to send data at 10Mbps the signal has to change -----	10 million times/sec	20 million times/sec	30 million times/sec	5 million times/sec	B	as, 10 Mbps = $10 \times 10^6$ bits per second, for one bit signal changes two times, so signal has to change 20 million times/sec
Modulation and Demodulation are done by...	hub	modem	bridge	none of these	B	Modem's full form is modulation-demodulation
which layer of OSI model deals with physical transmission across a physical network?	physical	datalink	network	transport	B	the datalink layer provides transmission of data over a physical network link, its layer defines physical addressing and frame encapsulation.
Port number is?	Process number	computer's physical address	Both (A) and (B)	none	A	Read chapter-1 from Data Communication and networking - B.S.Forouz
The physical layer is responsible for the transmission of ----- over the physical medium.	packets	bits	message	all of these	B	not applicable...
The part of OSI where one most commonly finds data encryption , compression , and other encoding for network communication is ?	application layer	session layer	presentation layer	none of these	C	Read chapter-1 from Data Communication and networking - B.S.Forouz

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## Quiz Result

(Here after the completion of quiz there will be solution paper available. Student can download it in pdf , excel or xml format.)

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... Value:

6 items found, displaying all items.

1

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Department	Subject	Name	Description	View
CE /IT	gate	gate manual	abut subject info of gate	<a href="#">Download</a>
CE /IT	php	php	menual	<a href="#">Download</a>
CE /IT	java	java	manual	<a href="#">Download</a>
CE /IT	heya	yoyo	honey sing	<a href="#">Download</a>
CE /IT	ASdfsadfj	lklajsdflk	kjkjsdakf	<a href="#">Download</a>
CE /IT	sdfas	asdf	sadfsadf	<a href="#">Download</a>

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**Performance Graph for Aptitude Type**

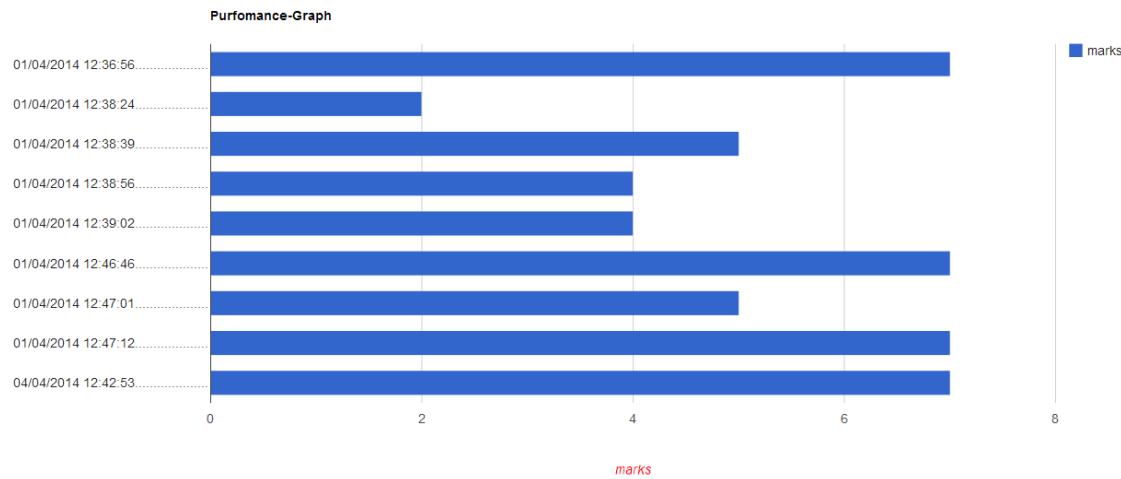
Note : this will give result in google graph format. It will show the result of student obtained in specific Aptitude Chapter

Chapter

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## Aptitude Performance

Hello this is purfomance graph of engineerraxit@gmail.com



Graph

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68 items found, displaying 1 to 10.

[First/Prev] 1, 2, 3, 4, 5, 6, 7 [Next/Last]

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ID	DateTime	Name	Email	Department
127	06/04/2014 22:13:18	Raxit	engineerraxit@gmail.com	CE/IT
126	06/04/2014 18:32:14	Raxit	engineerraxit@gmail.com	CE/IT
125	06/04/2014 18:20:43	Raxit	engineerraxit@gmail.com	CE/IT
122	04/04/2014 18:22:00	Raxit	engineerraxit@gmail.com	CE/IT
120	04/04/2014 12:20:26	Raxit	engineerraxit@gmail.com	CE/IT
119	03/04/2014 11:35:17	Raxit	engineerraxit@gmail.com	CE/IT
118	01/04/2014 13:03:50	Raxit	engineerraxit@gmail.com	CE/IT
117	01/04/2014 12:57:18	Raxit	engineerraxit@gmail.com	CE/IT
116	01/04/2014 12:10:38	Raxit	engineerraxit@gmail.com	CE/IT
113	26/03/2014 16:08:33	Raxit	engineerraxit@gmail.com	CE/IT

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... search

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[First/Prev] 1, 2 [Next/Last]

**UserMarks**

ID	Email	Department	Subject	Chapter	DateTime	type	Marks
18	engineerraxit@gmail.com	CE/IT	Computer Networks	Introduction	06/04/2014 22:18:37	chapter-wise	2
17	engineerraxit@gmail.com	CE/IT	Aptitude	Profit and Loss	04/04/2014 12:42:53	general	7
16	engineerraxit@gmail.com	CE/IT	Computer Networks	0	03/04/2014 11:36:02	subject-wise	9
15	engineerraxit@gmail.com	CE/IT	Computer Networks	0	03/04/2014 11:35:47	subject-wise	9
14	engineerraxit@gmail.com	CE/IT	Aptitude	Profit and Loss	01/04/2014 12:47:12	general	7
13	engineerraxit@gmail.com	CE/IT	Aptitude	Profit and Loss	01/04/2014 12:47:01	general	5
12	engineerraxit@gmail.com	CE/IT	Aptitude	Profit and Loss	01/04/2014 12:46:46	general	7
11	engineerraxit@gmail.com	CE/IT	Aptitude	Profit and Loss	01/04/2014 12:39:02	general	4
10	engineerraxit@gmail.com	CE/IT	Aptitude	Profit and Loss	01/04/2014 12:38:56	general	4
9	engineerraxit@gmail.com	CE/IT	Aptitude	Profit and Loss	01/04/2014 12:38:39	general	5

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**My Exam Result**

## 7. CONCLUSION

According to functionality of the system we can finally conclude that this system is perfectly designed and developed for social service purpose. According to system's functionality we can judge that system will help a student in preparation of GATE , which is in real a very indeed process for a student. Students can prepare for GATE examination online free-of-charge.

Students can give as many quiz they want. They can see their performance graph. Exchange important material regarding current updates in engineering field. Donate Questions and Material. Download material.

I am donating this web-application to our college , U.V.Patel College of Engineering. After the completion , our college will provide one important infrastructure for every students (also from other colleges.) to prepare for gate examination , which is one plus point for our college's digital branding.

According to functionality of the system we conclude that it can be a very handy approach in real world on the basis of educational contribution.

## BIBLIOGRAPHY

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- ✓ [www.wikipedia.org](http://www.wikipedia.org)
- ✓ [www.w3schools.com](http://www.w3schools.com)
- ✓ [www.yahoo.co.in](http://www.yahoo.co.in)
- ✓ [www.javatpoint.com](http://www.javatpoint.com)
- ✓ [www.hiddenbrains.com](http://www.hiddenbrains.com)
- ✓ [www.roseindia.net](http://www.roseindia.net)
- ✓ [www.javatpoint.com](http://www.javatpoint.com)
- ✓ [www.javabrainz.com](http://www.javabrainz.com)

### Books

- Jakarta Struts 1.2 - Marty Hall
- Hibernate – JBoss-Community
- Java Tutorial – javatutorialpoint.com
- Software Engineering – Rajib Mall
- J2EE (just for basic concept) – Herbert Schildt

## 8. FUTURE ENHANCEMENT

The System is very handy technically. We can conclude that on the basis of the Frameworks – (Struts 1.3 & Hibernate 3.2) used in the system. In future we can lead this simple approach to social network also. We can make view part more efficient and responsive.

We can also enhance this system technically. We can create Android Application for students, for the feasible use of the system functionality using REST api.