

Online college magazine	Version 2.0
Software Requirements Specification	15/02/2012

## Code book

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# Online college magazine

## Software Requirements Specification

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### Version 2.0

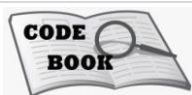
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Vishakhapatnam.

**Department:** Computer science engineering

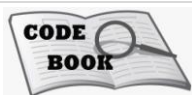
**State:** Andhra Pradesh.



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## **Revision History**

29/01/2012	1.0	Efficient	Code book
15/02/2012	2.0	Updated version	Code book



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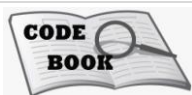
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## Introduction

**Online College Magazine** where college students and faculties can post and read various articles, thus promoting literary insight

### 1.1 Purpose

In conventional system the magazine is published on a paper and needs to be circulated among all. The main factors behind the motivation of this system are:

1. Not all students make it to the printed magazine.
2. Creativity of students needs to be nurtured.
3. Creating a user-friendly interactive place where students/faculties can share their ideas

Considering the above issues a system is user friendly online system is developed where all the users can post their articles,news.

### 1.2 Scope

- The users in the system are

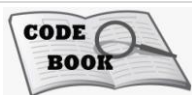
Guest(anonymous)

Registered users(faculty/students)

Moderators

Administrator

- Guests can view the articles written in magazine and the comments but are restricted to post an article unless they are registered users
- The users can search the articles, sort the articles by date,name,rating.

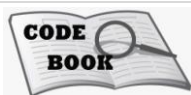


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- The moderator reviews the post before they are published in the magazine
- The administrator can view the performance of the moderators and the members
- The system contains archives of all the published articles
- The articles can be downloaded in various formats

### 1.3 Definitions, Acronyms and Abbreviations

- **Admin(Administrator):** He is entitled with the task of adding, deleting moderators. Accountable for changing the look of the system
- **OCM(Online college magazine):** It is an online system that enables its users to view and post articles regarding various issues in the college
- **HTML (Hyper Text Markup Language):** It is used to create static web pages.
- **JSP (Java Server Pages):** It is used to create dynamic web content.
- **J2EE (Java 2 Enterprise Edition):** It is a programming platform, belonging to the Java platform, which is used for developing and running distributed java applications.
- **WASCE (WebSphere Application Server Community Edition):** It is an application server that runs and supports the J2EE and the web service applications.
- **WSAD (WebSphere Studio Application Developer ):** It is a designer toolkit which is designed to develop more complex projects by providing a complete dynamic web service.
- **DB2 (IBM Database 2):** It is a database management system that provides a flexible and efficient database platform to raise a strong "on demand" business applications.
- **HTTP (Hyper Text Transfer Protocol):** It is a transaction oriented client/ server protocol between a web browser and a web server.



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## 1.4 References :

- Software engineering by roger s.pressman
- Object Oriented Modeling and Design with UML-Michael Blaha, James Rumbaugh
- [www.google.com](http://www.google.com)
- [www.wikipedia.org](http://www.wikipedia.org)
- Data base management systems by Silberschatz-Korth-Sudarshan
- Java Server Pages –Hans Bergsten, SPD O'Reilly
- [www.sun.com](http://www.sun.com)
- Ibm tool kit 2011
- [www.ibm.com/developerworks](http://www.ibm.com/developerworks)
- The complete Reference Java 2 Fifth Edition by Patrick Naughton and Herbert Schildt

## 1.5 Technologies to be used

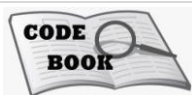
### DB2:

**Database2:** A database management system that provides a flexible and efficient database

platform to maintain records of students, teachers, admin and dm.

### JSP

**Java Server Pages.** It is used to create dynamic web content.



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## **J2EE**

**Java 2 Enterprise Edition.** A programming platform which is a part of java platform for developing and running distributed java.

## **UML**

**Unified Modeling Language** is a standard language for writing software blueprints. The UML may be used to visualize, specify, construct and document

## **HTTP**

**Hypertext Transfer Protocol.** It's a service protocol.

## **RAD**

**Rational Application Developer** is a development tool that helps to design web pages and also helps to design the diagrams like ER, Database schema diagrams and to generate DDL.

**XML(Extensible markup language):** a metalanguage that allows users to define their own customized markup languages, esp. in order to display documents on the World Wide Web

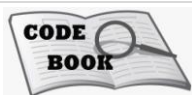
## **1.6 tools to be used**

RAD(Rational application developer) for coding

DB2(data base 2) for database

Rational rose for modeling

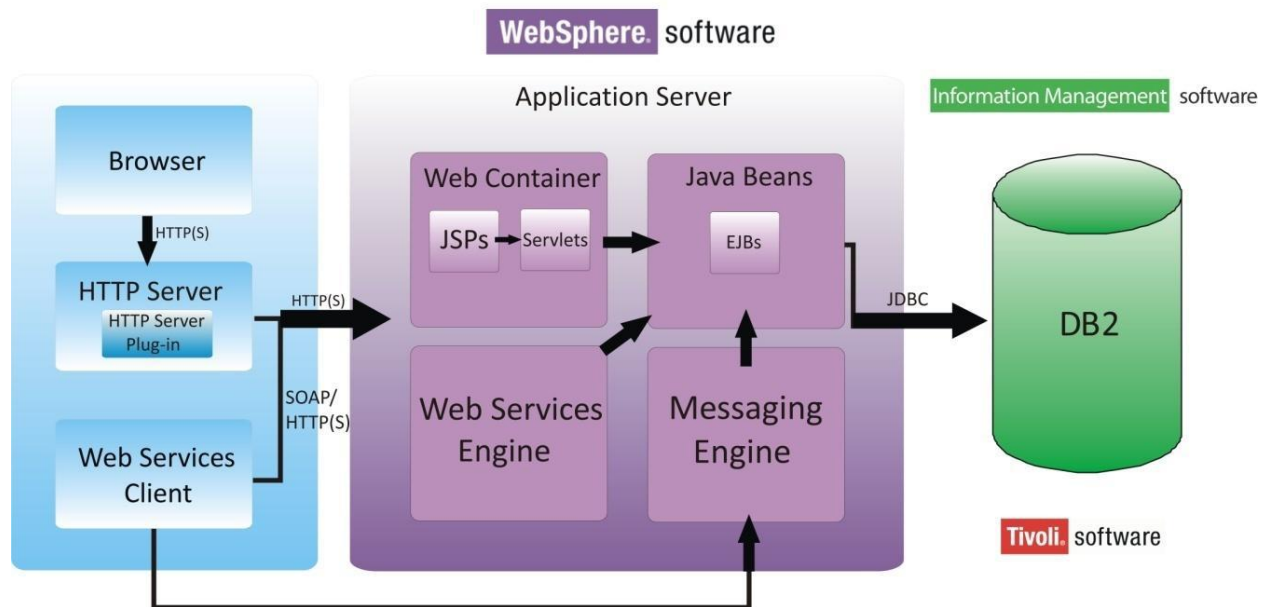
WASCE(Websphere application server) for maintaining server



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## 2.0 Overall Description

### 2.1 Product Perspective



### 2.2 Software Interface

#### Client on Internet

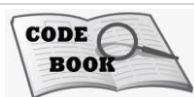
Web Browser, Operating System (any)

#### Client on Intranet

Web Browser, Operating System (any)

#### Web Server

WASCE, Operating System (any)





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### **Data Base Server**

DB2, Windows

### **Development End**

RAD (J2EE, Java, JavaScript, Servlets, HTML, XML, AJAX), DB2, OS, Jasper  
WebSphere(Web Server)

## **2.3 Hardware Interface**

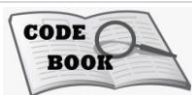
### **Minimum Requirements:**

<b>Client side</b>			
	<b>Processor</b>	<b>RAM</b>	<b>Disk space</b>
Internet Explorer - 6	Intel Pentium III or AMD - 800 MHz	128 MB	100 MB

<b>Server side</b>			
	<b>Processor</b>	<b>RAM</b>	<b>Disk space</b>
RAD	Intel Pentium III or AMD - 800 MHz	1 GB	3.5 GB
DB2		256 MB	500 MB (Excluding Data Size)

## **2.4 Communication Interface**

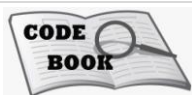
- Client (customer) on Internet will be using HTTP/HTTPS protocol.
- Client (system user) on Internet will be using HTTP/HTTPS protocol.



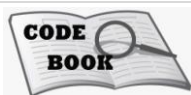
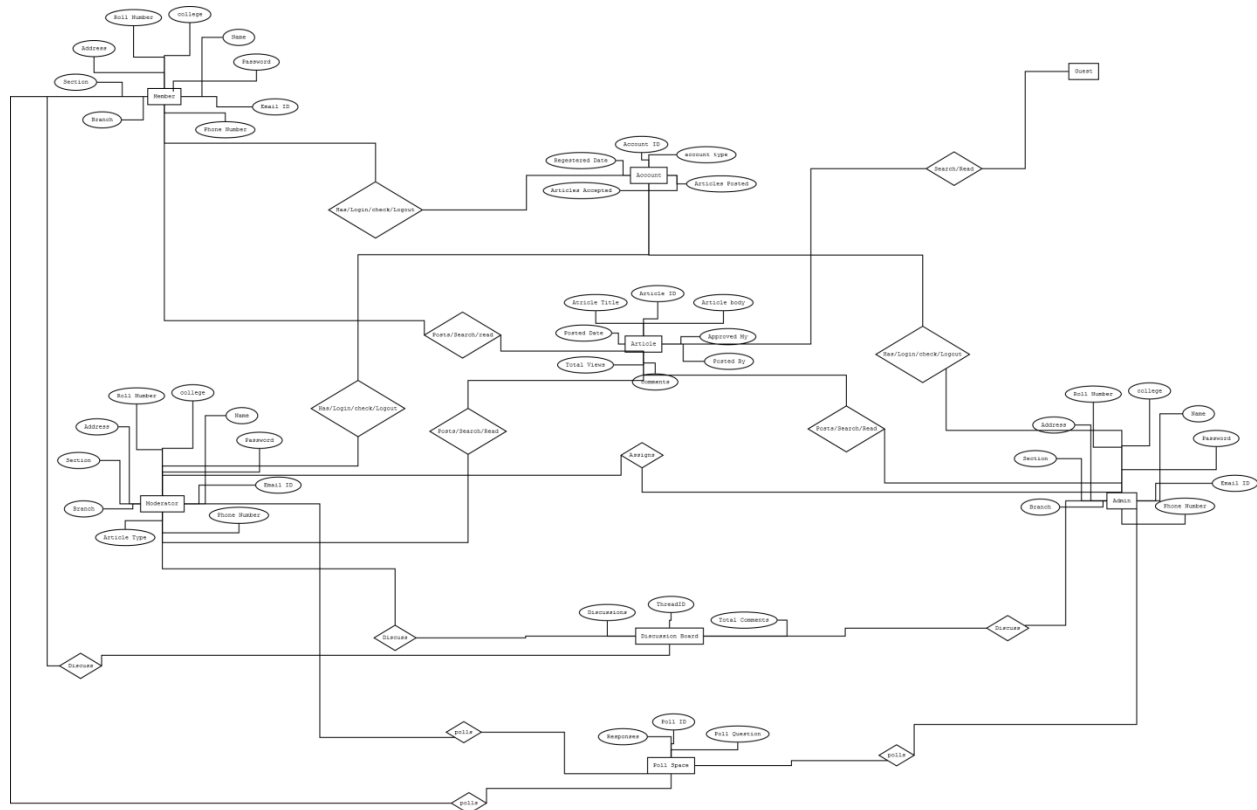
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## 2.5 Constraints

- GUI is only in English and Telugu.
- College Students/Faculties can only register as members (through unique IDs).
- The guest has got limited access.
- The articles will be posted only after acceptance by admin/moderators.
- Login and password is used for the identification of users.
- Only registered users will be authorized to post the article.
- Limited to HTTP/HTTPS.
- This system is working for single server.

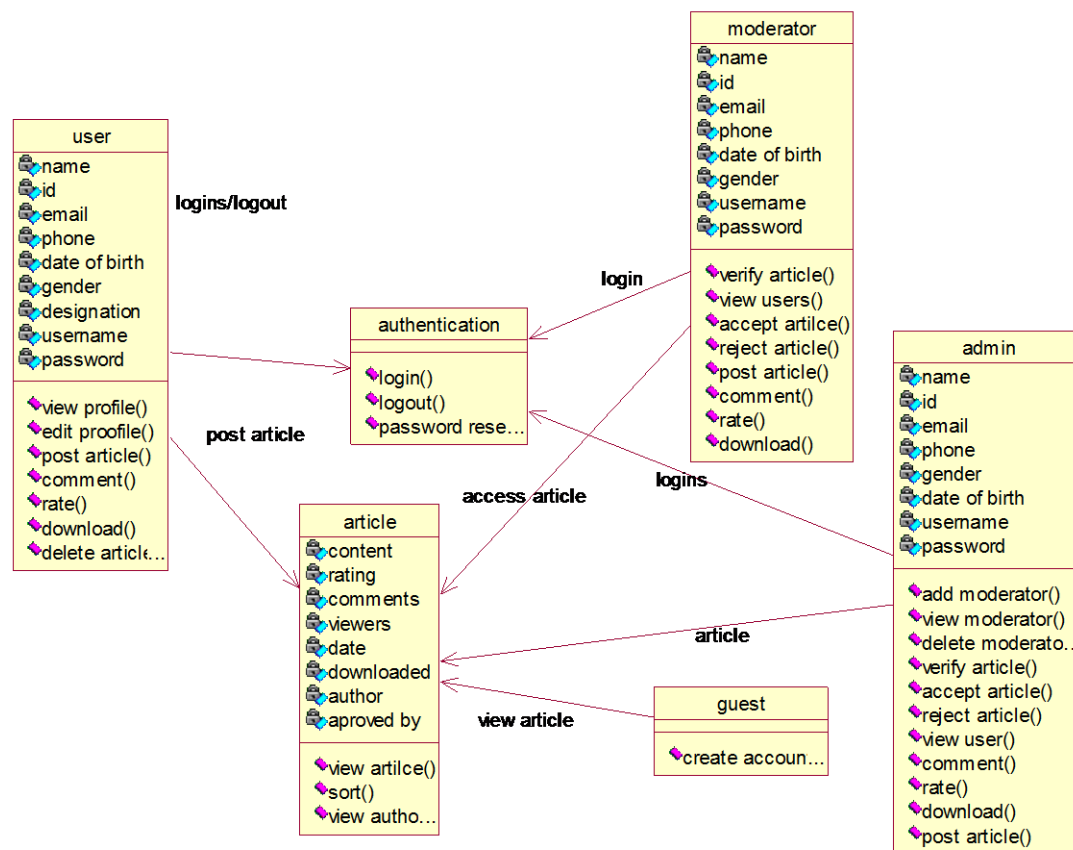


## 2.6 ER Diagram

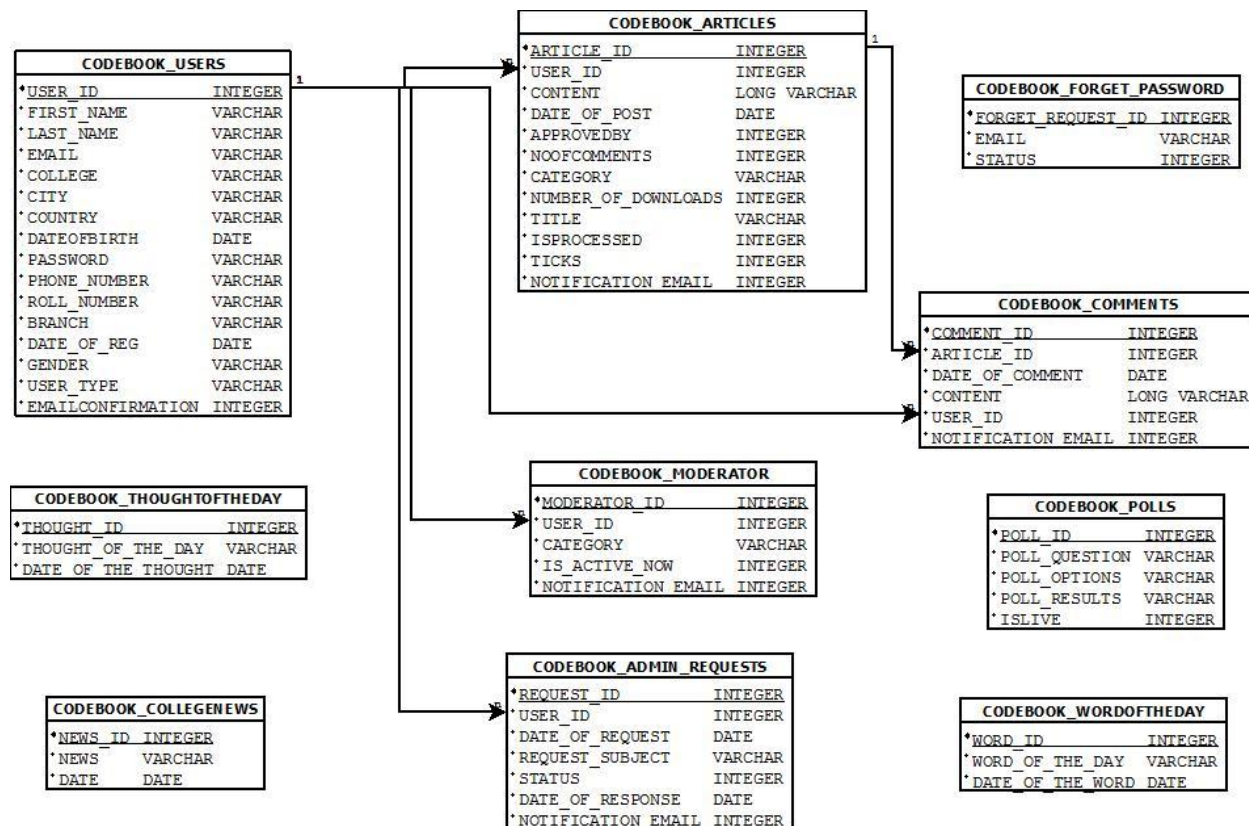


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## 2.7 Class diagram



## 2.8 Database schema



## 2.9 Use Case Model Survey

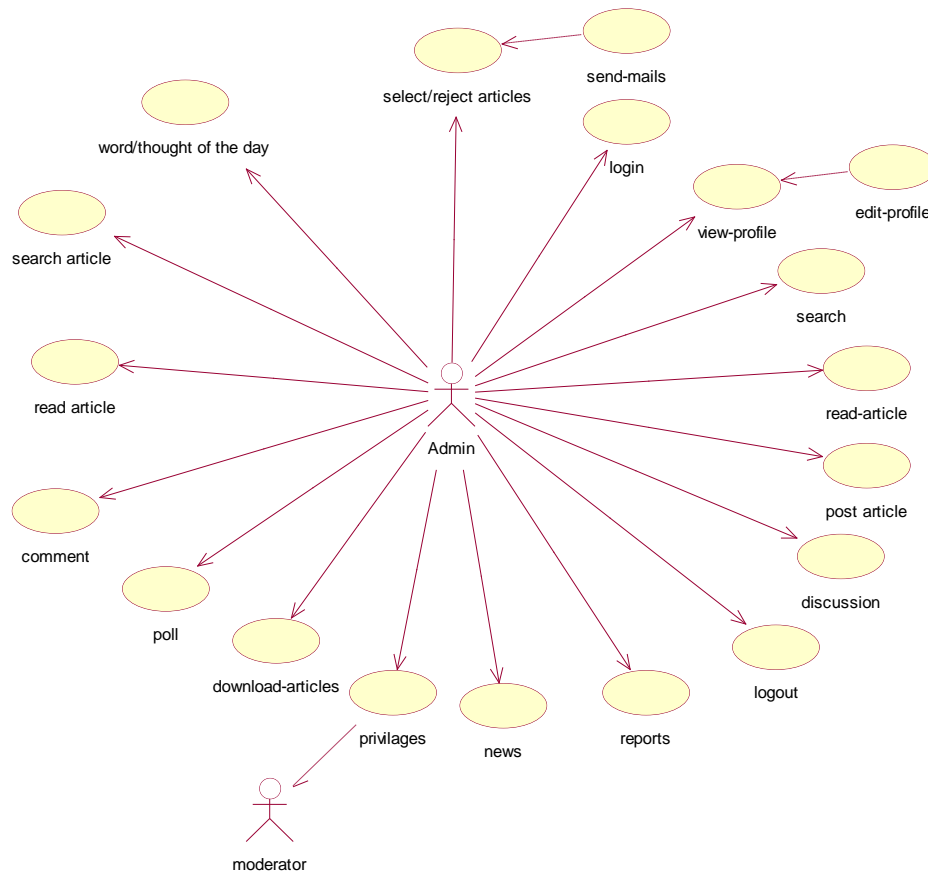


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## 3.0 Specific requirements

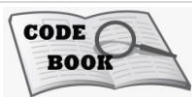
### 3.1 Use case reports

Use case diagram for admin:



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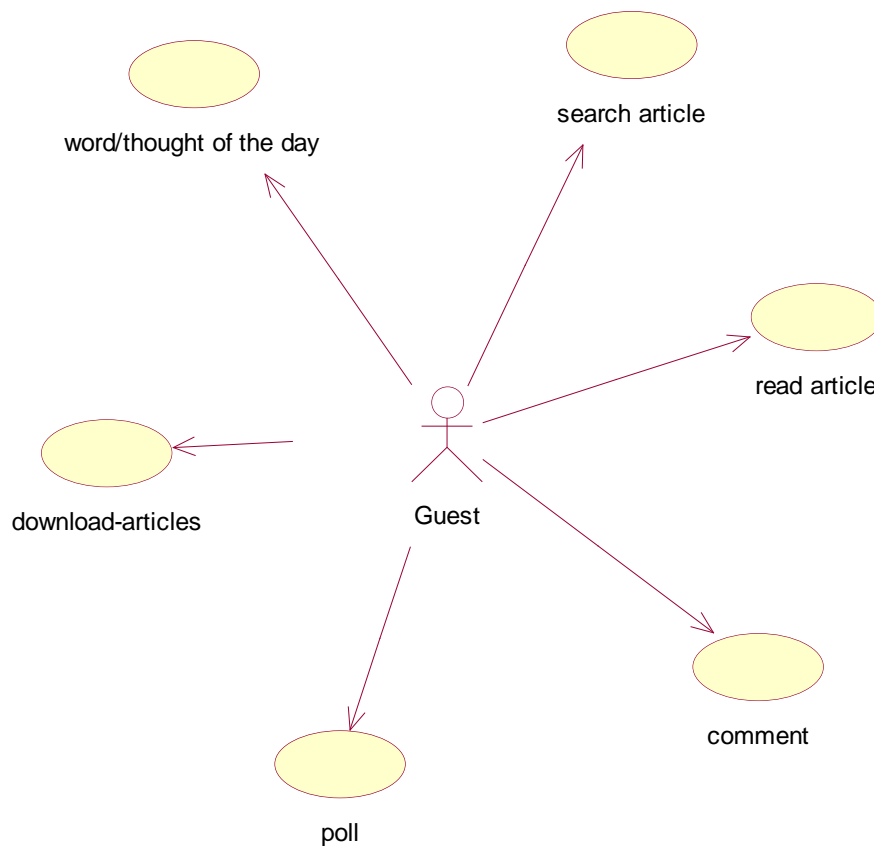
Use case	description
Select/reject articles	The admin can select or reject the articles posted by users
Send mails	The admin has to send the confirmation of article or the reason for rejection mail to the author
login	The admin can login with his username and password
View profile	The admin can view his profile
Edit profile	The admin can edit his profile
search	The admin can search the articles
Read article	The admin can read articles posted successfully
Post article	The admin can post article
discuss	The admin can participate in discussion forum
logout	The admin can logout through the system
reports	The admin can view the progress reports of the moderators
news	The admin can publish the news
privileges	The admin has to set the privileges of the moderator
Download articles	The admin can download the articles in various formats
poll	The admin can participate in polling
Comment	The admin can comment on the articles
Word of the day	The admin can access the word of the day



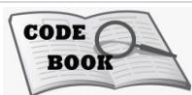


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### Use case diagram for guest:

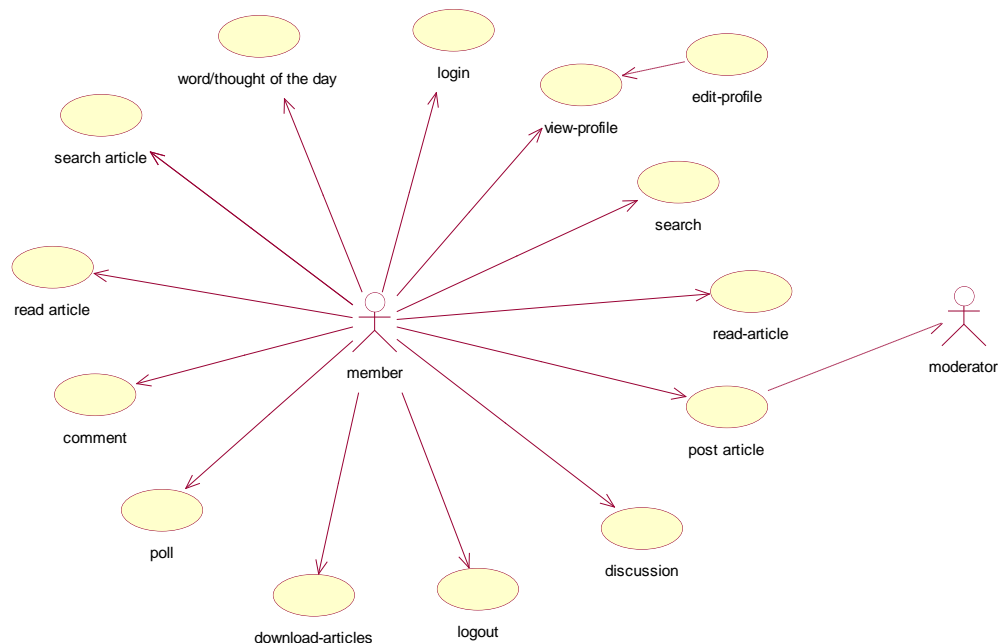


Usecase	Description
search	The guest can search the articles
Read article	The guest can read articles posted successfully
Comment	The guest can comment on the articles
poll	The guest can participate in polling
Download articles	The guest can download the articles in various formats
Word of the day	The guest can access the word of the day

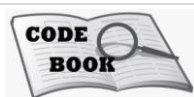


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### Use case diagram for member:



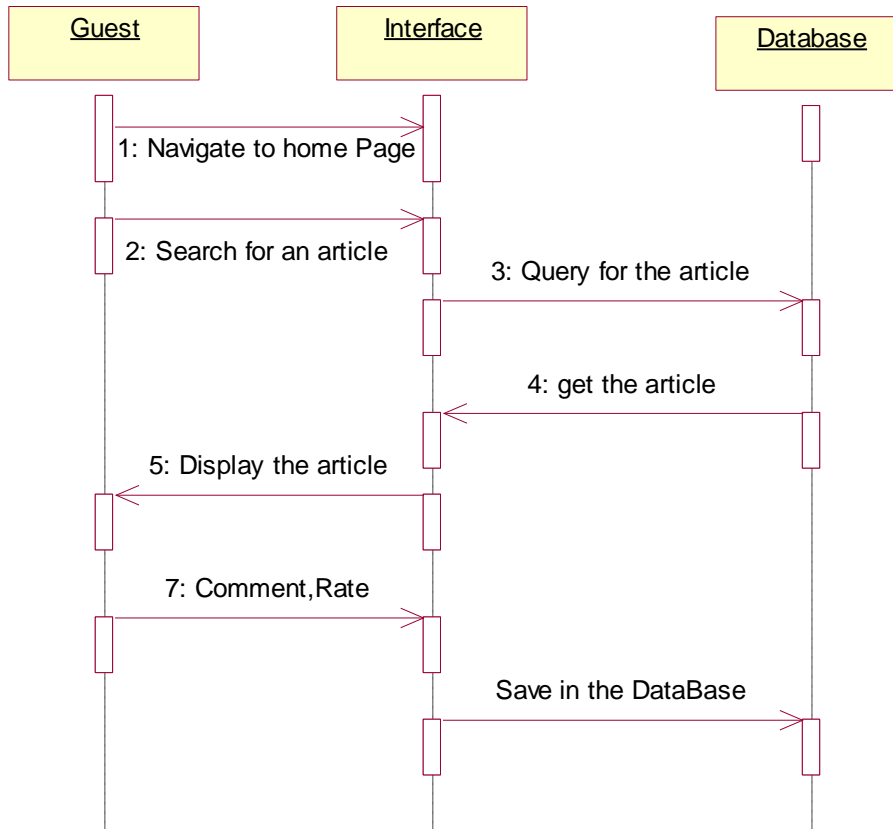
Use case	description
login	The member can login with his username and password
View profile	The member can view his profile
Edit profile	The member can edit his profile
search	The member can search the articles
Read article	The member can read articles posted successfully
Post article	The member can post article
discuss	The member can participate in discussion forum
logout	The member can logout through the system
reports	The member can view the progress reports of the moderators
news	The member can publish the news
Download articles	The member can download the articles in various formats
poll	The member can participate in polling
Comment	The member can comment on the articles
Word of the day	The member can access the word of the day



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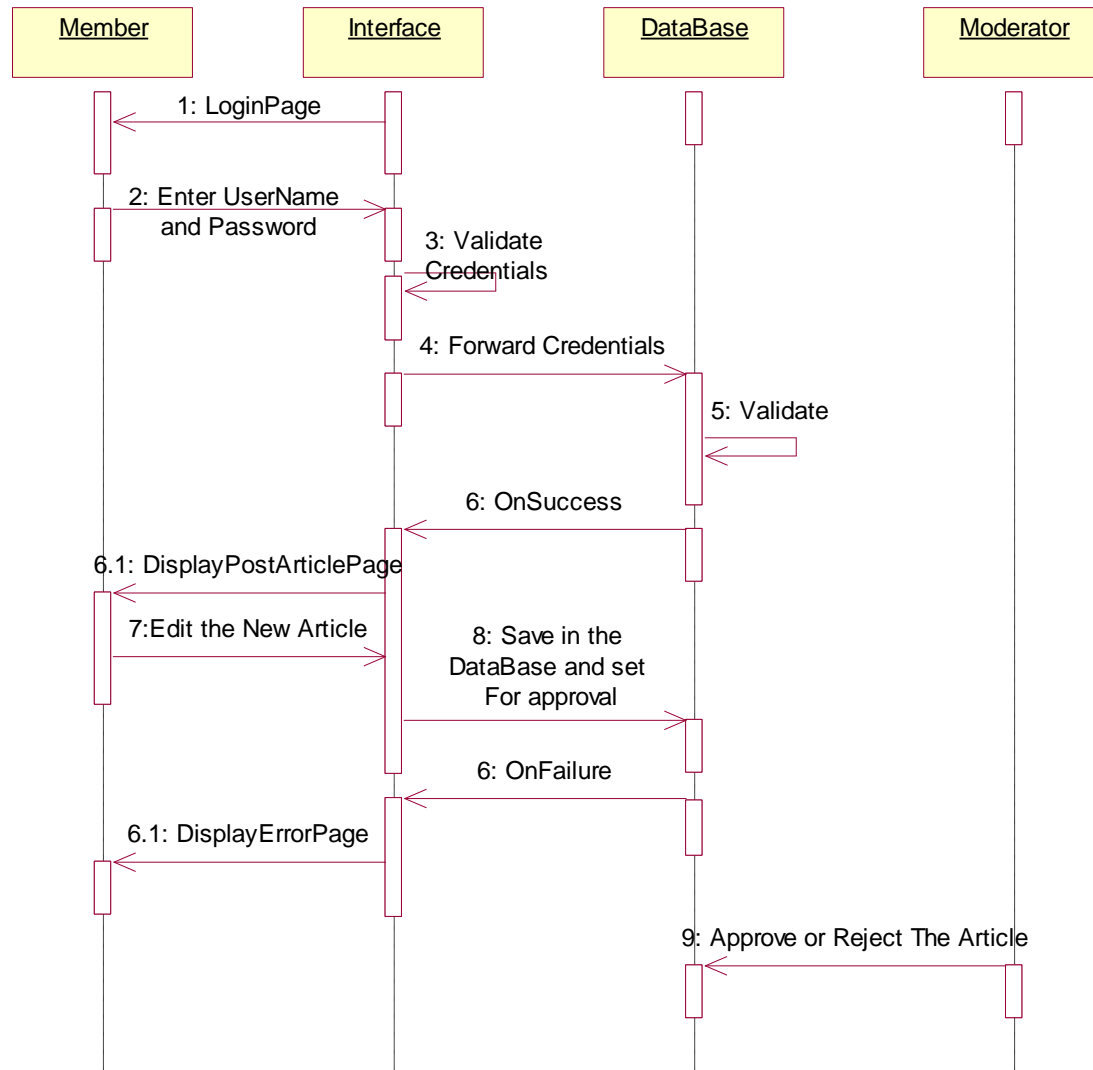
## 3.2 Sequence Diagram

Sequence diagram for guest:



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### Sequence diagram for post article:

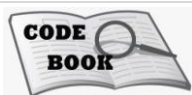


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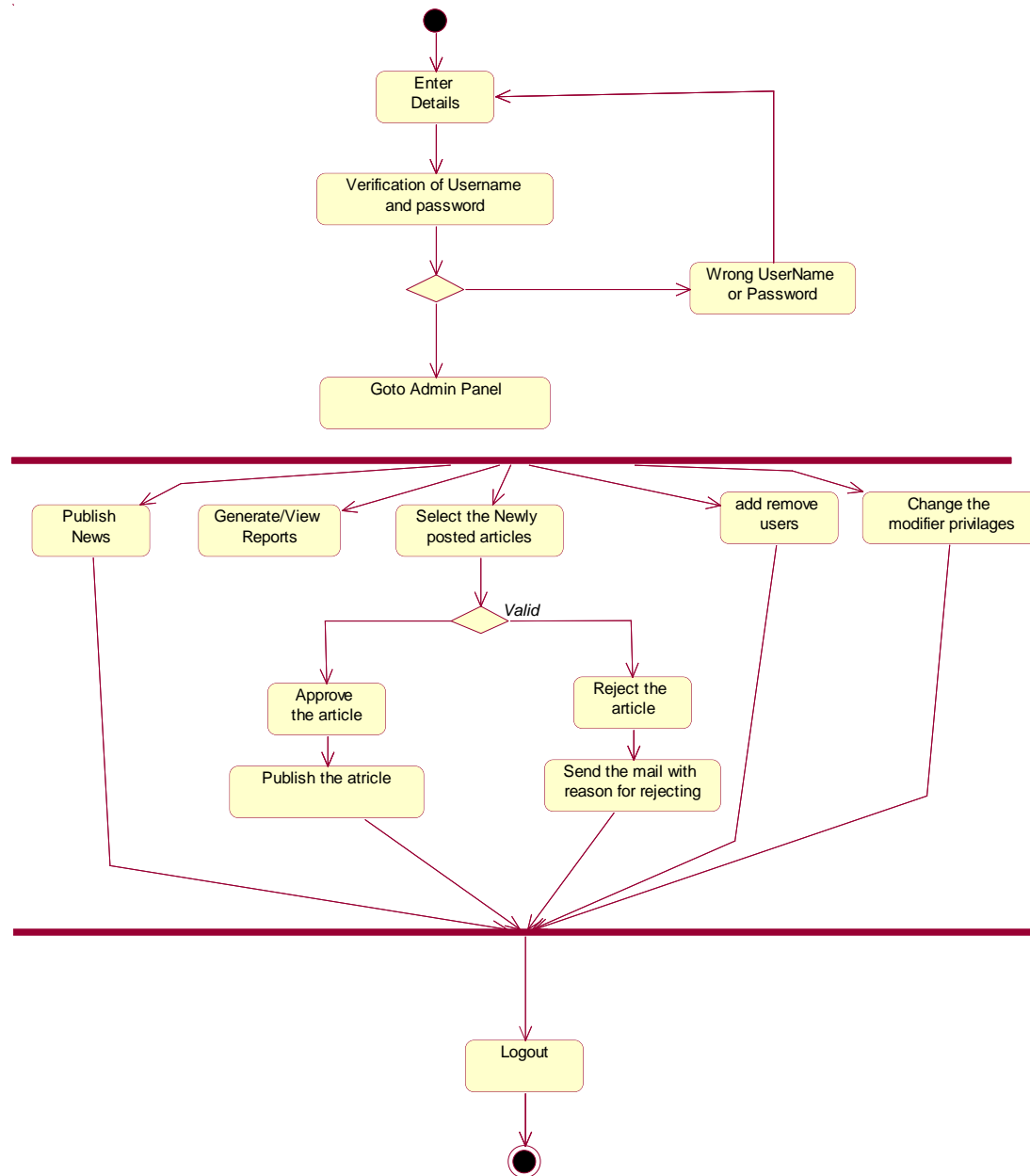
### 3.3 Activity diagrams

#### Activity diagram for administrator:

The administrator has to provide the username for password for logging into the system. on successful authentication he will be navigated to the admin panel where he has got various functionalities like publish news, view reports, select newly posted articles, add/remove users, change privileges. For an newly posted article he can accept or reject. On accepting the article successful confirmation will be sent to the author of the article. On rejection of the article, reason will be provided.



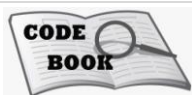
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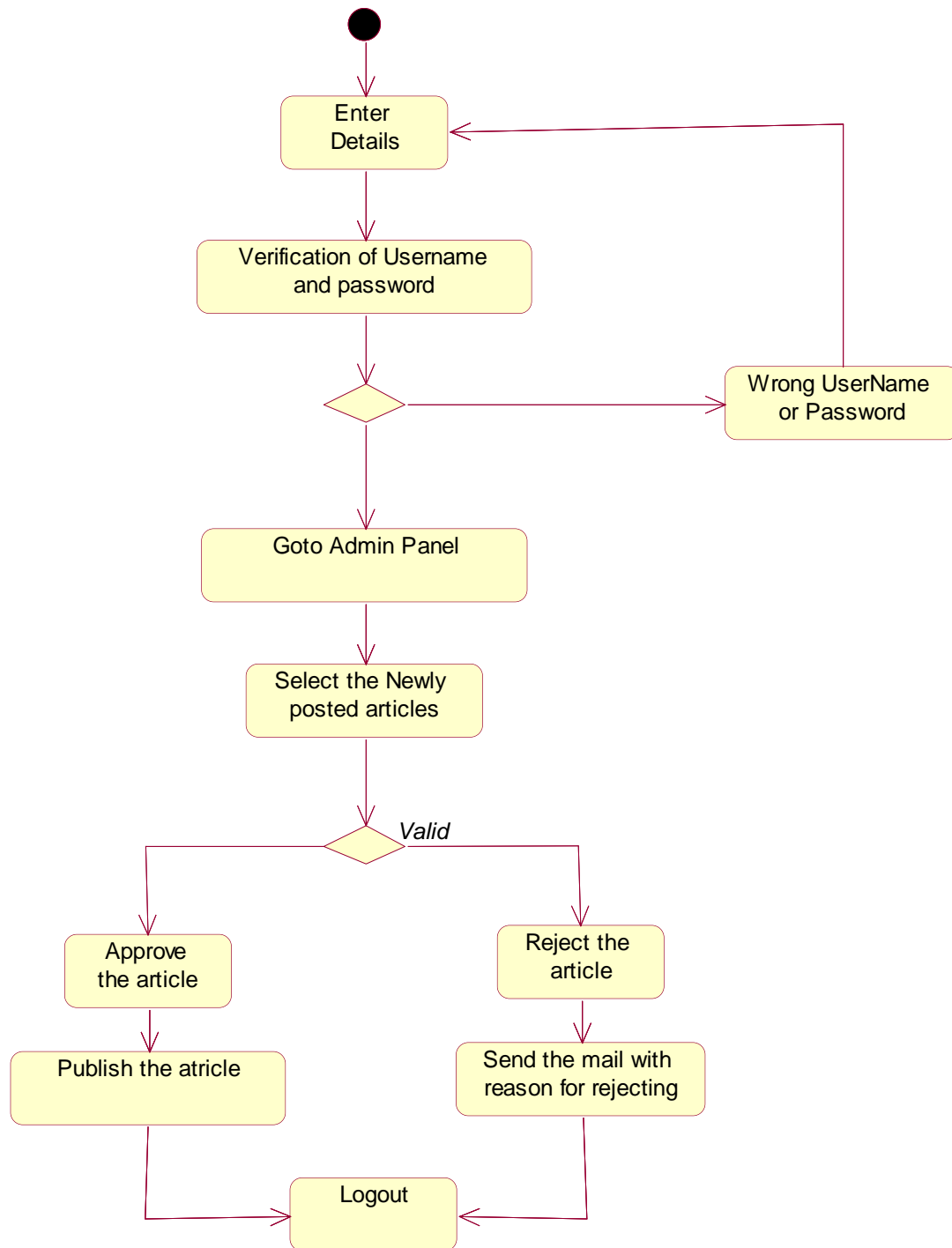


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### **Activity diagram for moderator:**

The moderator needs to be authenticated through username and password. He has the right to accept and decline articles. On rejection of the article , he has to provide the reason and the progress report of the moderator stating the number of articles received and number of articles accepted/rejected will be available to the admin.

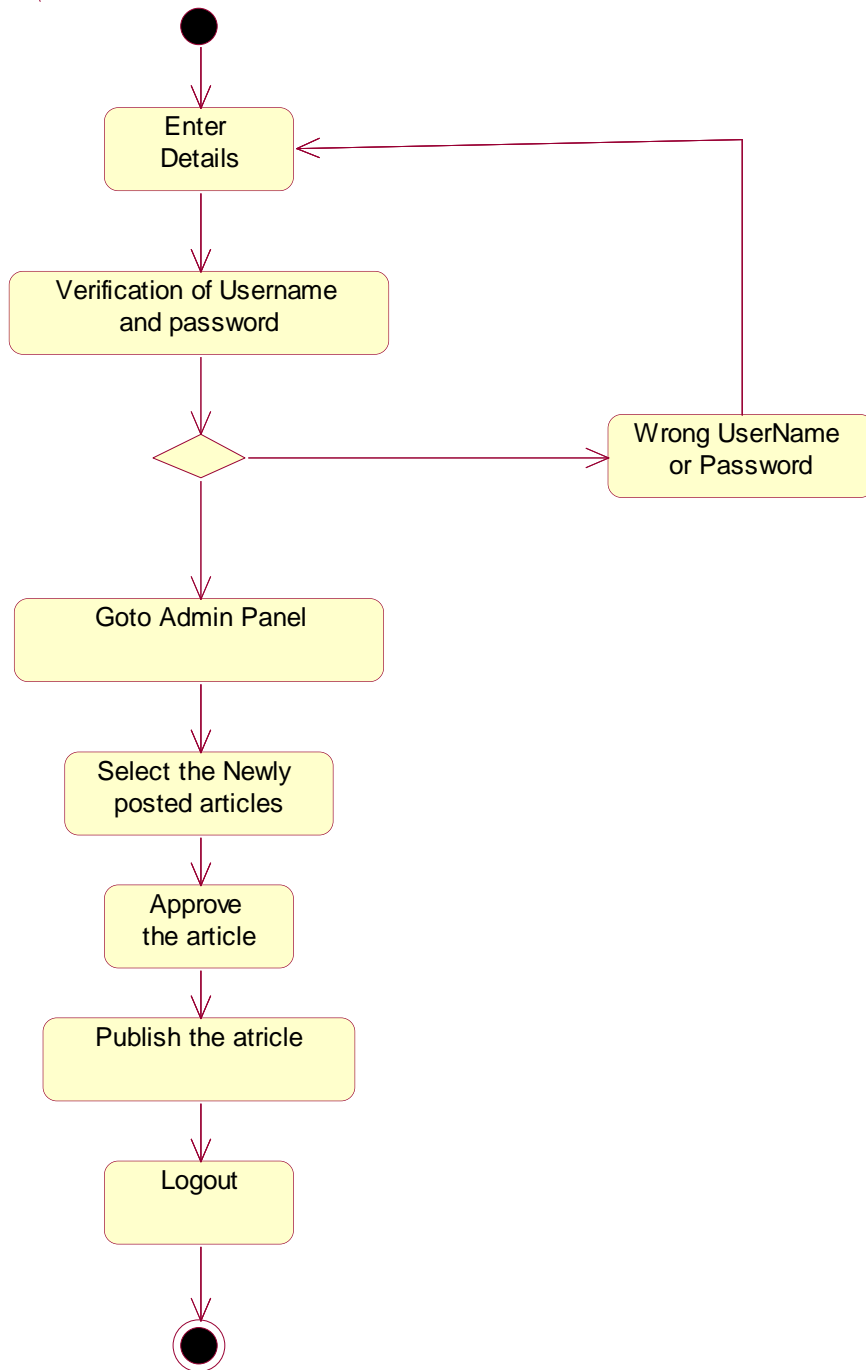






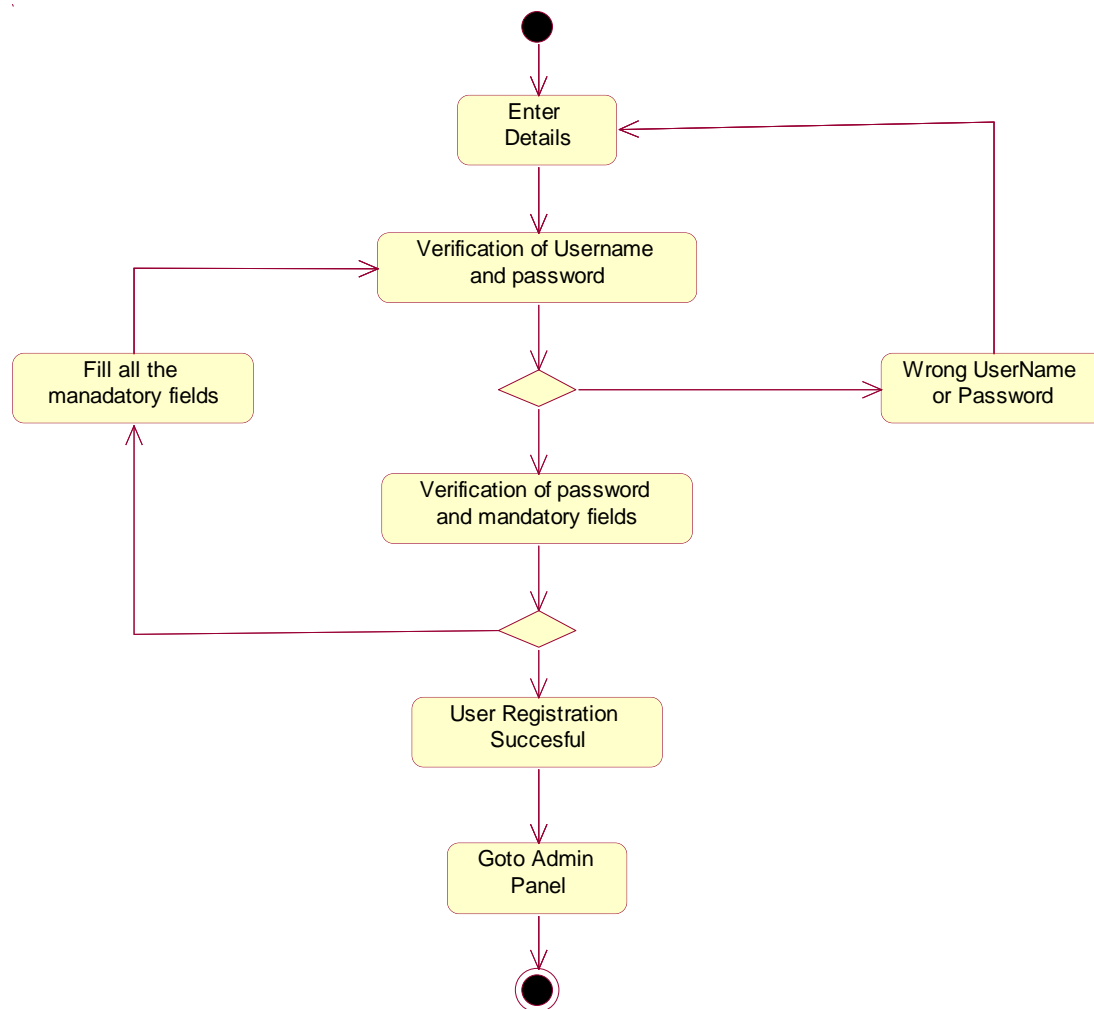
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**Activity diagram for post article:** the user needs to login with username and password and he can write the article which is sent for approval.



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**Activity diagram for registration:** the user of the system has to enter the details during the registration and if the required criteria is not satisfied he will redirected to the registration page again and if everything is correct a confirmation message stating user registration successful is displayed.



### Activity diagram for view article:

The capability to view, search, comment, rate the article is available to every user of the system. The user can search for the required article based on the tag. He can comment or rate the article. He can view the thought, word of the day and he can also participate in the polling.

