Ahsanullah University of Science & Technology

Department of Computer Science & Engineering

Information Pool System

CSE 3224

Information System Design

&

Software Engineering Lab

Submitted By:

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Motivation

Information Pool System will be a platform on which users can find different news from various newspaper portals in one place. This way people will not have to waste time searching for news from different newspaper portals. Moreover, users can find information about events and post advertisements in the classifieds section in the same platform. Registered users can write blogs and four levels of security will be strictly maintained in the Information Pool System. Users will be benefitted as they can find all these features in one place.

Primary Actors

- Users
- Registered Users
- Bloggers
- Admin

Secondary Actors

- Various Newspaper Portals

Use cases according to the primary actors

A use case diagram is a simple representation of a user's interaction with the system. It shows the relationship between the user and the different use cases, in which the user is involved. A use case delves into a lot of details about every possibility, whereas a use-case diagram helps to provide an extensive view of the system. When the system requirements are analyzed, the functionalities are captured in use cases.
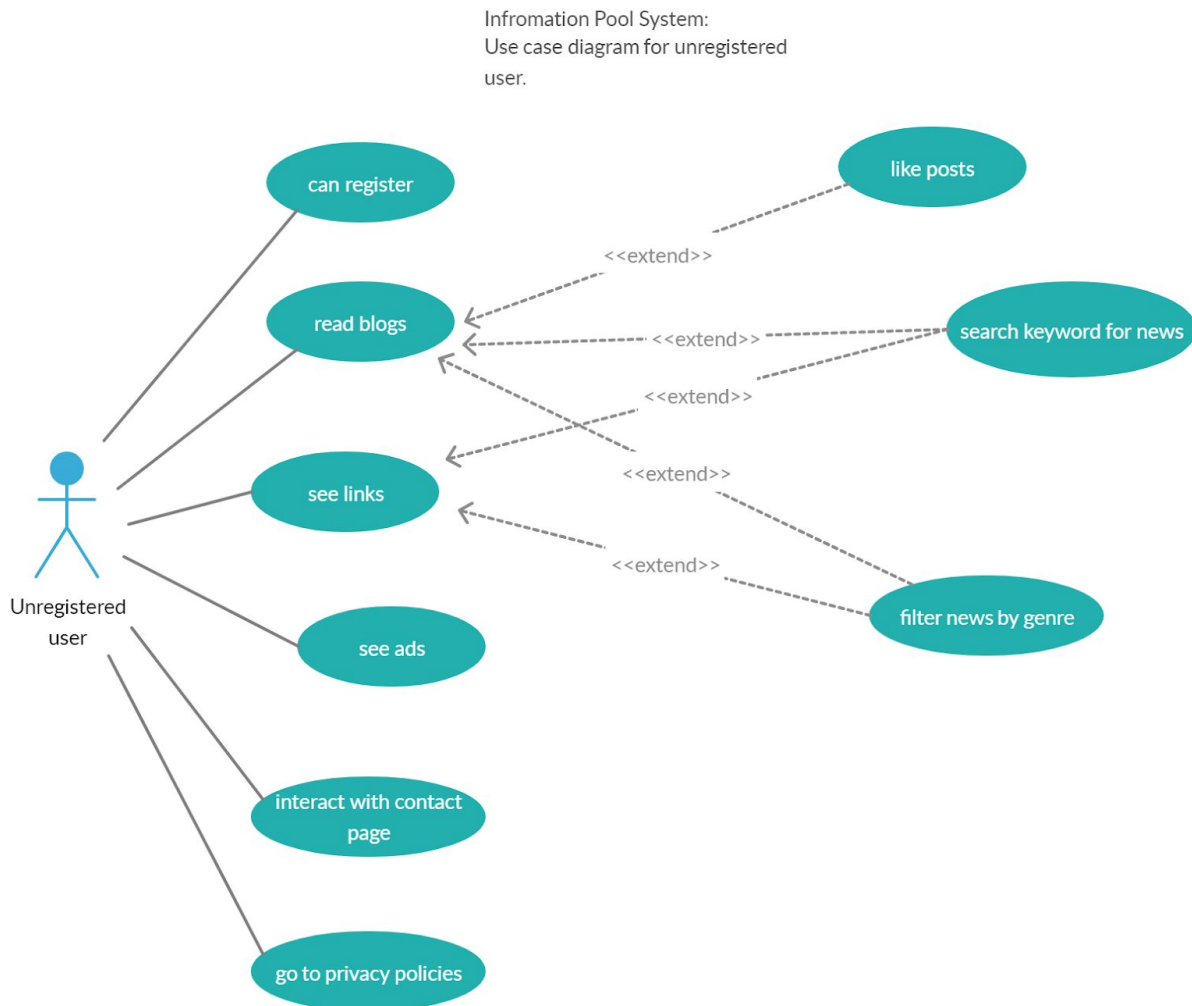
- **Use Case Diagram of Unregistered Users**

Infromation Pool System:
Use case diagram for unregistered
user.

Fig:Use Case diagram of Unregistered Users

Illustration:

- ➢ Unregistered user will be able to register as a new user.
- ➢ They will be able to see news links, read blogs and see classifieds ads as well.
- ➢ They can send any queries or complaints to the admins through the contact page.
- ➢ They can view the privacy policies of the site.
- ➢ They can filter news by topics/genre as well as search for news links/blogs using keywords.

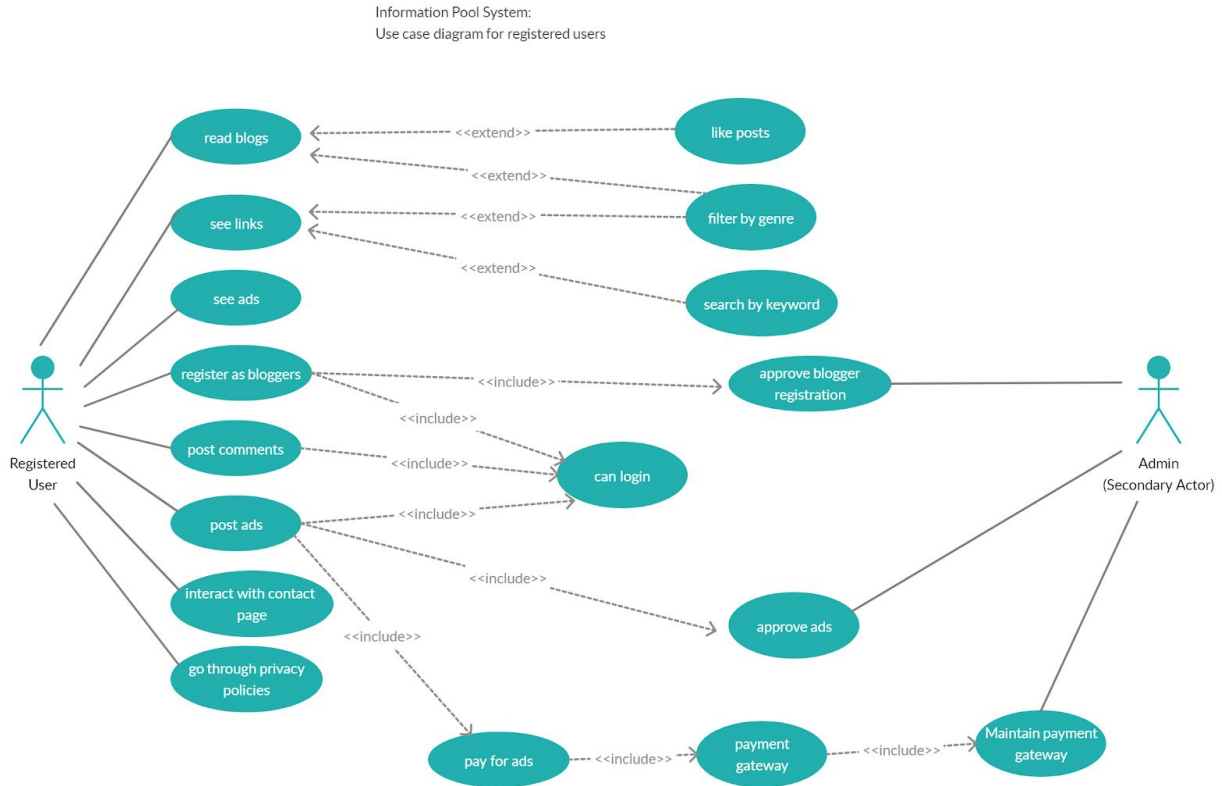● **Use Case Diagram of Registered Users**

Information Pool System:
Use case diagram for registered users

Fig:Use Case diagram of Registered Users

Illustration:

➢ Registered users will get all the privileges of an unregistered user and extra privileges as well.
➢ Registered users will be able to login, after which they will be able to register as blogger, post comments and post ads.
➢ To register as blogger and post ads, users will need approval from admins.
➢ To complete ad posting, users will need to pay using payment gateway maintained by admins.

● **Use Case Diagram of Bloggers**

Information Pool System:
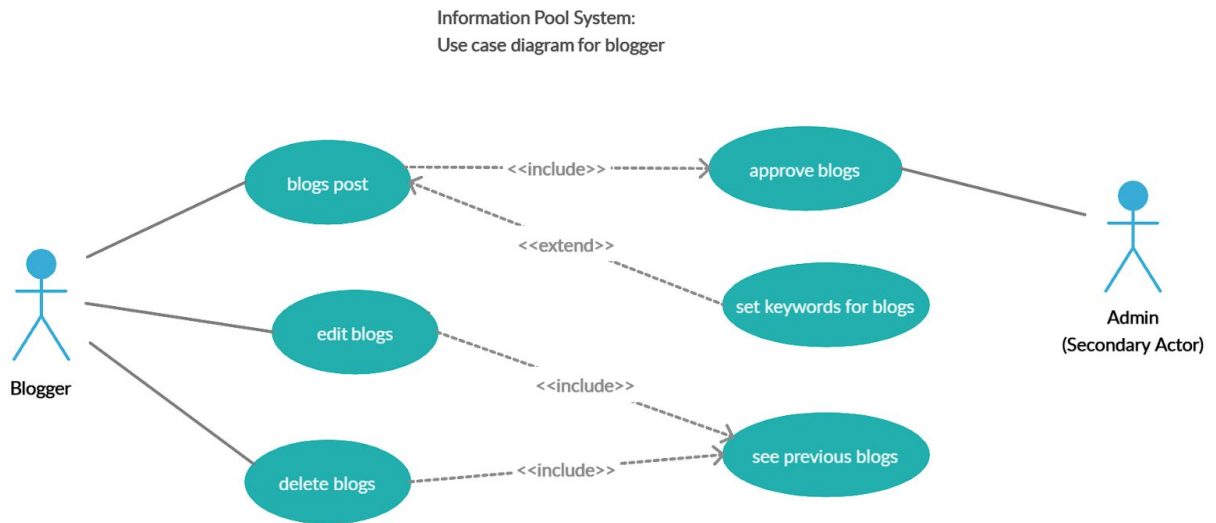Use case diagram for blogger

Fig:Use Case diagram of Bloggers

Illustration:

➢ After getting approval as a blogger, they will be able to post blogs and set keywords for those blogs to help with the search results of blogs.
➢ Bloggers will be able to see previous blogs, edit and delete those blogs.
➢ Before posting a blog, it must get approval from the admins.
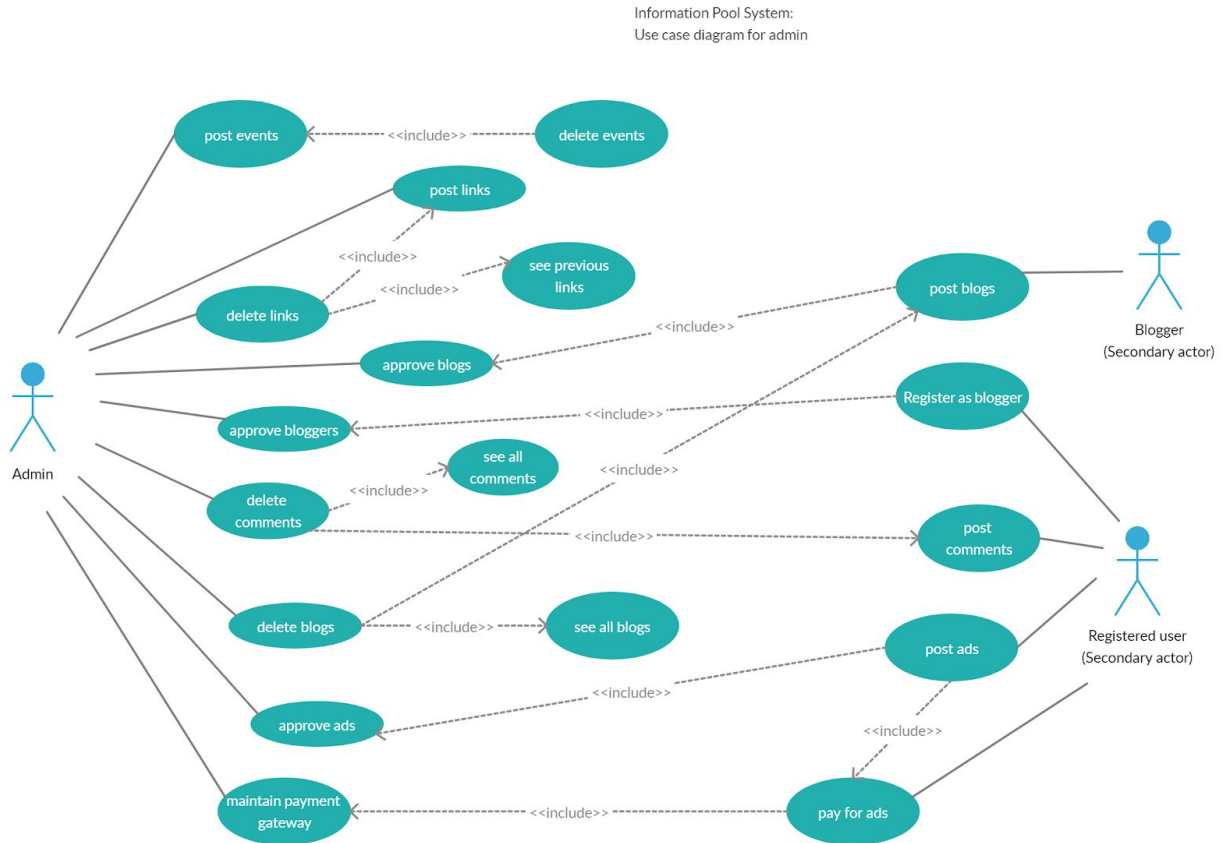
● **Use Case Diagram of Admin**

Fig:Use Case diagram of Admin

Illustration:

➢ Admins are the main controllers of the entire system. They have final jurisdiction over everything in the site.

➢ Admins are responsible for maintaining the peaceful environment on the platform and may delete blog posts or comments if they deem necessary.

➢ Admins have the authority to post news links, see previous links and delete them as well.

➢ Admins must approve ads and blogs before they appear on the website.

➢ Admins have to maintain the payment gateway(bKash for now) so users can pay for the ads they would like to post.

➢ Admins have the authority to approve blogger registration as well.

➢ Admins can post about events, view previously posted events and delete events if necessary.

Conclusion

From the above discussion, we visualised the Information Pool System using Use Case Diagrams. Use case diagrams are employed in UML (Unified Modeling Language), a standard notation for the modeling of real-world objects and systems. Using these diagrams, the interaction between actors themselves and interaction of the actors with the system are explained which will be helpful in the future to build the project.