Newspaper System Analysis

Introduction

In this era of globalization, where every event or accident can spread overseas, exchanging a piece of information about anything become a vital activity. Most of the people nowadays are aware of the facts and daily events that take place in their own community as well as other communities. Consequently, the mass of media is grown. In spite of the various channels that are available to spread news, newspaper still have the first priority. Most of the people like to know about the life around them using newspaper. And as Napoleon Bonaparte said "Four hostile newspapers are more to be feared than a thousand bayonets". In addition, the growth in the newspaper industry made it easier for people to reach it. Newspaper are available as printed copies that can be distributed daily besides it can be read as electronic versions on news websites. Moreover, many television programs are designed mainly to read the newspaper for you.

According to that, we cannot deny that newspaper industry is one of important industries that affect our lives. But how it goes, and how it is organized and who the parties that are participating in its main functions and what these functions are. All these questions lead us to fetch about the newspaper system analysis.

Overview of Newspaper industry:

A newspaper is a publication planned for a broad audience that is issued regularly, daily or weekly or monthly, and claims to contain factual versions of recent events. It always include local and international news stories, advertisements, announcements, opinions, cartoons, sports news and television listings. Usually newspapers are published with the intention of making a profit. Frequently, their factual content is accompanied by nonfactual material intended as entertainment.

Newspapers first appeared in Europe in the mid-17th century. It was called broadsheet that has a single sheet of paper that responded to unfamiliar events. Since that time newspaper changed dramatically over time to the form we know today.

The newspaper has several sections. One of the important ones is the front page that has the most important stories of the day. Each story has its own "headline" and a "by-line" giving the name of the reporter who wrote the story. The classified section of a newspaper is where advertisements are placed. Advertisements include job queries and offers, buy or sell a house, or any other similar matter. Anyone who has articles to sell or a position they wish to advertise can purchase space in this section. The cost of placing an ad in the newspaper is usually determined by the number of words in the ad. This is one of the ways newspapers make money. Other sections of the newspaper may vary according to its type if it is daily or weekly. But the most common sections are Culture Section that contains global arts coverage and social events including theatre, film, music, dance and more. Sports section that has a global coverage and analysis of sports. Business section which include market news as well as commentaries about them. Financial section that has financial analysis, news and forex news. Entertainment or Lifestyle Section that offer interviews of popular people besides information concerns health, beauty, religion, hobbies, books, and authors.

Departments and Business Roles

In a corporation that is specialized in newspaper business there are many departments that are several departments but some of the most common are the Space Marketing Department, Editorial Department, Scheduling Department , Production Department, System Department, and Circulation Department. Each department has its main business functions that serve the overall business strategies.

The actual cost of the newspaper is trivial. But the Space Marketing Department is the source of the revenue as all the expenses are covered from this department only. The department collects and markets the advertisement from the corporate clients which indirectly add value to business standard.

The Editorial Department is very vital. The decision of publishing any news is taken by the editorial department. It collects news from various sources and then adjust them in the various pages including the advertisements that are approved by the Space Marketing Department.

The Scheduling Department is responsible for the layout of the newspaper. For example, the department books the advertisements and defines a specified location for it. This way two advertisements cannot be located in the same location. Before the final printing of the newspaper there is a draft copy for the whole newspaper. Any further modifications done by the department takes place in this draft. Finally, this draft is sent to the production department for the final printing and distribution.

The System Department is responsible for the communication networks among all of the branches as well as all technical problems.

Circulation Department is responsible for the rotation of the newspaper in the region. Also they deliver the orders to the regular subscribers. Other functions of the department include the promotion of the newspaper to the readers and identifying the customers' needs such as quality and pricing.

Other departments such as Accounting, Administrative, and Inventory departments are also operating in the newspaper production system. The Administrative Department is responsible if the personnel affairs such as selection, training, and promotion. Accounting Department which looks after all the accounting work like preparing balance sheet and other financial statements, payment, receipt, and preparation of budget. Inventory Department which is responsible of the storage of raw material such as newsprint and other materials used in the newspaper office.

Newspaper business functions

As described the business of newspaper productions is not easy to understand as it extend to cover a group of departments and employees in order to survive the business. The business functions of the newspaper production can be summarized up as:

1. Collection of news.
2. Selection of proper news and features.
3. Editing of news and features.
4. Interpretation of news.

5. Selling the newspaper.

6. Delivering the newspaper.

7. Collection from subscribers.

8. Estimation and grasping selling opportunities.

9. Following customers' feedback.

10. Monitoring and modifying price and quality.

11. Scheduling and organization of the advertisement space.

12. Printing the final form of the newspaper

13. Provide communication among the organization

14. Monitor for reduction of cost and increase in sales and profit.

15. Design promotions.

16. Develop new markets.

Developing an editorial application for nonprofessional user

Abstract:

Online news editing is an important requirement for publishing media. Currently available systems focus on professional editing and publishing of news articles. We could not find a system that allows users (non-professional users) to participate in the news editing and publication processes.

We are planning to develop a system for non-professional users which allows them to develop their ideas and publish it online. Once the user identity is scrutinized he is allowed to upload his article to the site. This article will be sent to the chief editor, chief editor who makes editorial approval or rejection of the article .The user is allowed to modify his article based on the chief editor comments. Subsequently, he could upload the updated article to the developed system to appear for public users. Now people can read users articles. The idea behind this site is to provide users (non-professional editor) the capabilities to express themselves and develop their editorial skills.

# VII. Requirements Determination & Analysis:

1.Requirements Determination & Collection:

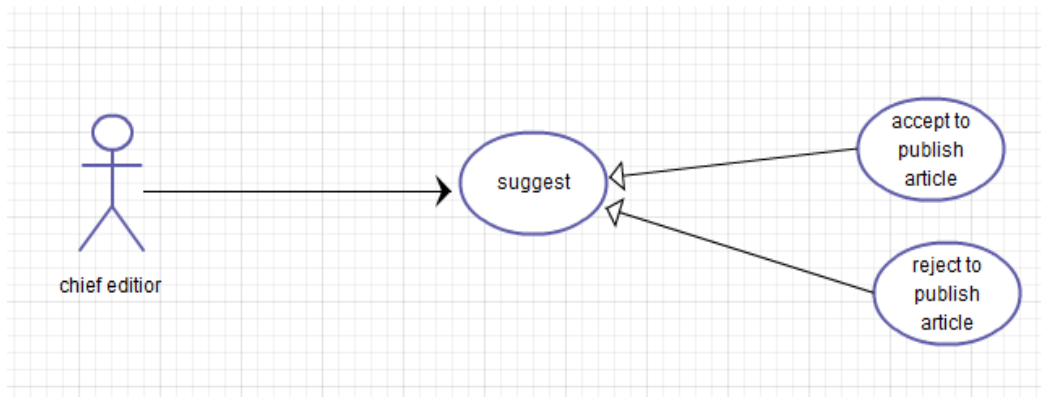We gather the project requirements using the following methods:
- Questionnaires and interviews: we asked the editor and supervisor of our project for newspaper system.
- Investigation: By visiting the sites of some local newspapers, and look at the advantages and disadvantages of each newspaper.
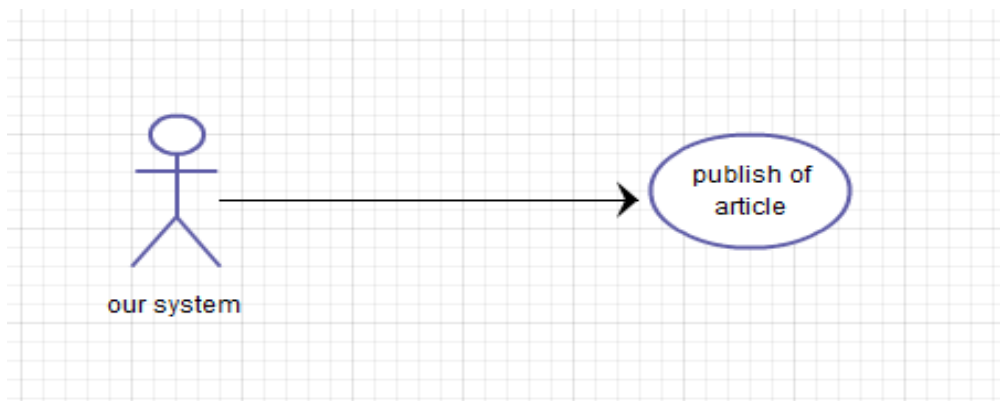
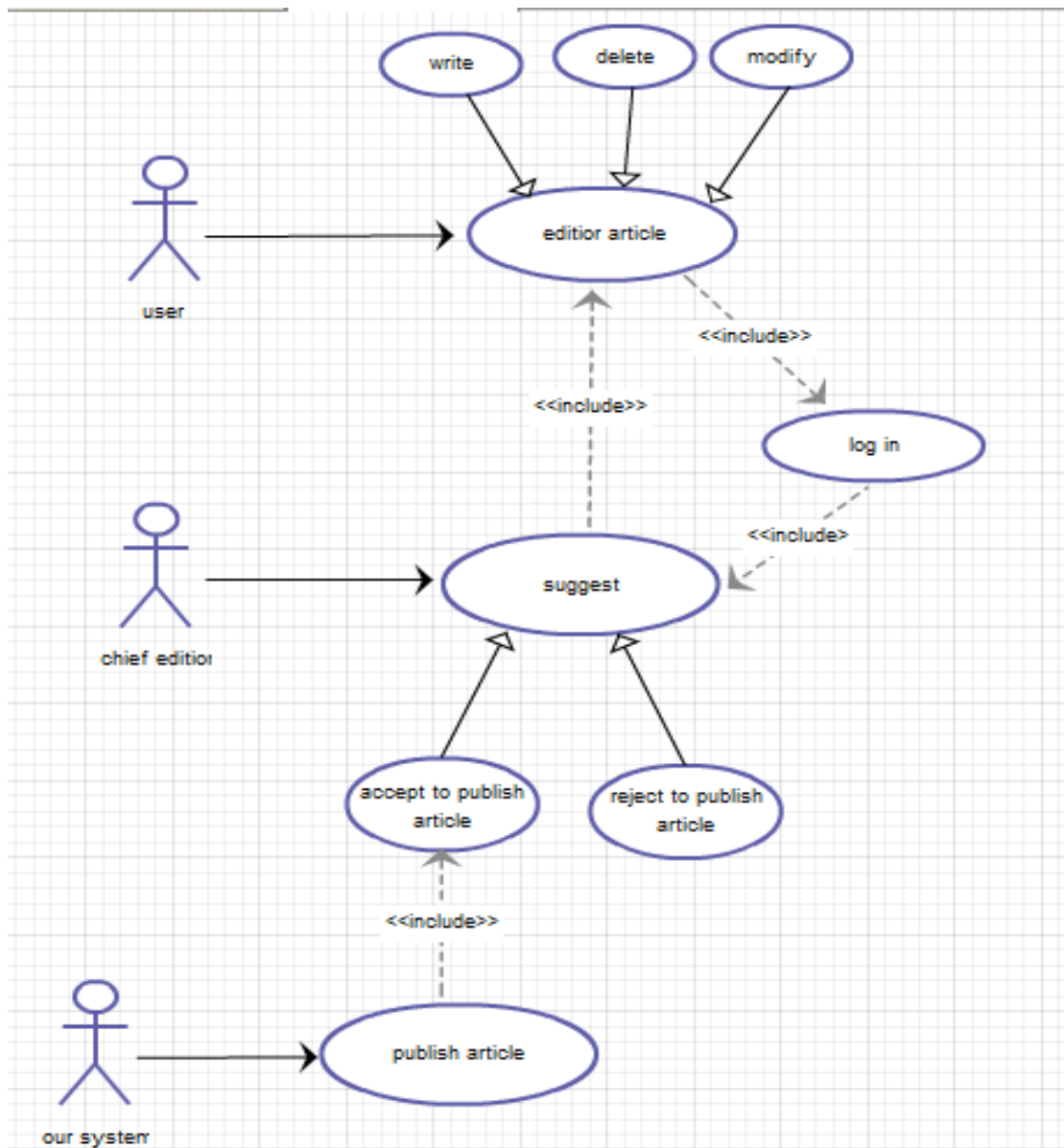## 2. Requirements Analysis:

- Use cases .
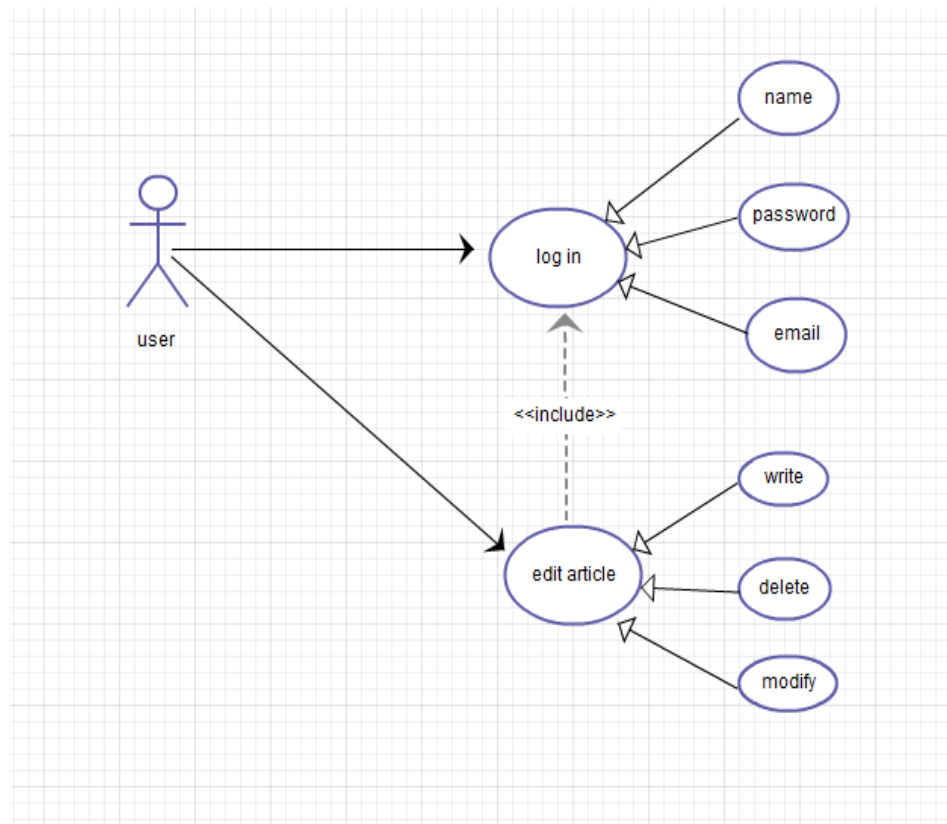
Figure(6): Use case :User.

Figure(7): Use case :Chief editor.

Figure(8): Use case :our system.

Figure(9):Use Case.

Table(2): Use case of developing An Editorial Application For unprofessional Users.

| USE CASE	Developing An Editorial Application For Unprofessional Users
DESCRIPTION	Allows external users (non-professional editor) to interact with their editorial process ,add articles online and allows user interaction with the system such that users decide if an article worth publication or not.
ACTORS	User (non professional) , A Chief Editor (group of user).
PRECONDITIONS	Must have a user account in the system.
POSTCONDITIONS	If the use case was successful, the news will be published in the electronic newspaper.
NORMAL FLOW	- User registration in the system. - The user writes the article to be published in the newspaper. - The possibility of allowing a chief editor (group of users) to comment on the article. - Amendment on article (delete, add, change....etc) after the user comments by user non professional. - Check the number of users of approvers to publish. - Publishing of the news in the newspaper electronic.

- Data Flow Diagram (DFD) :
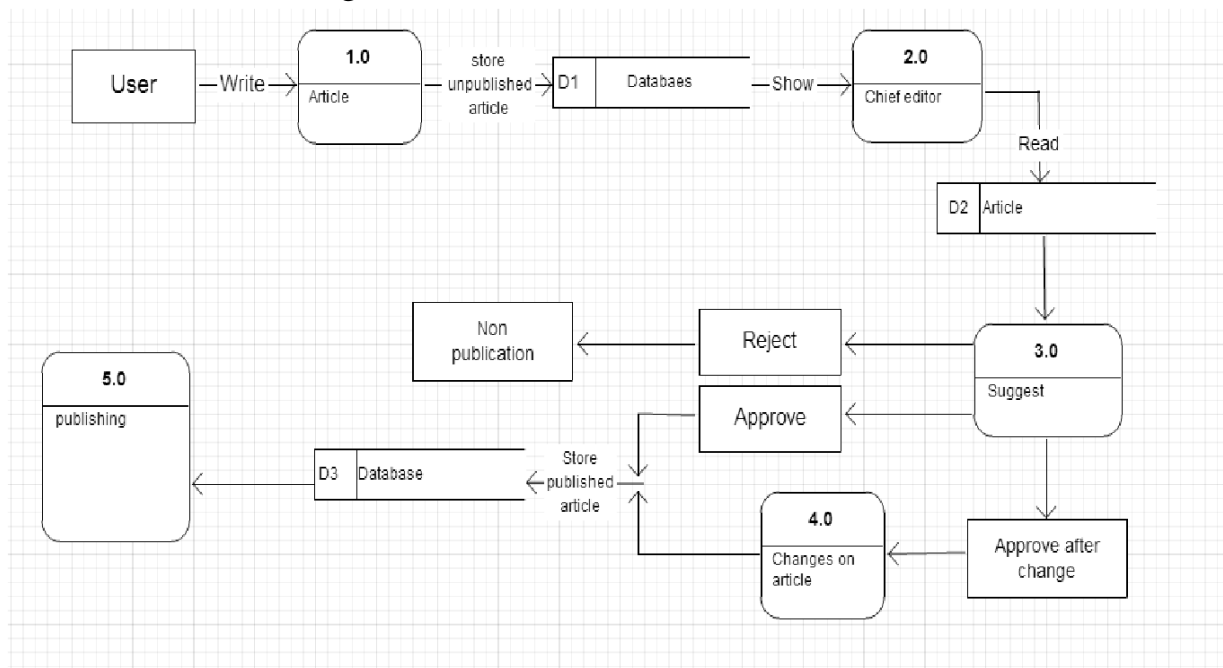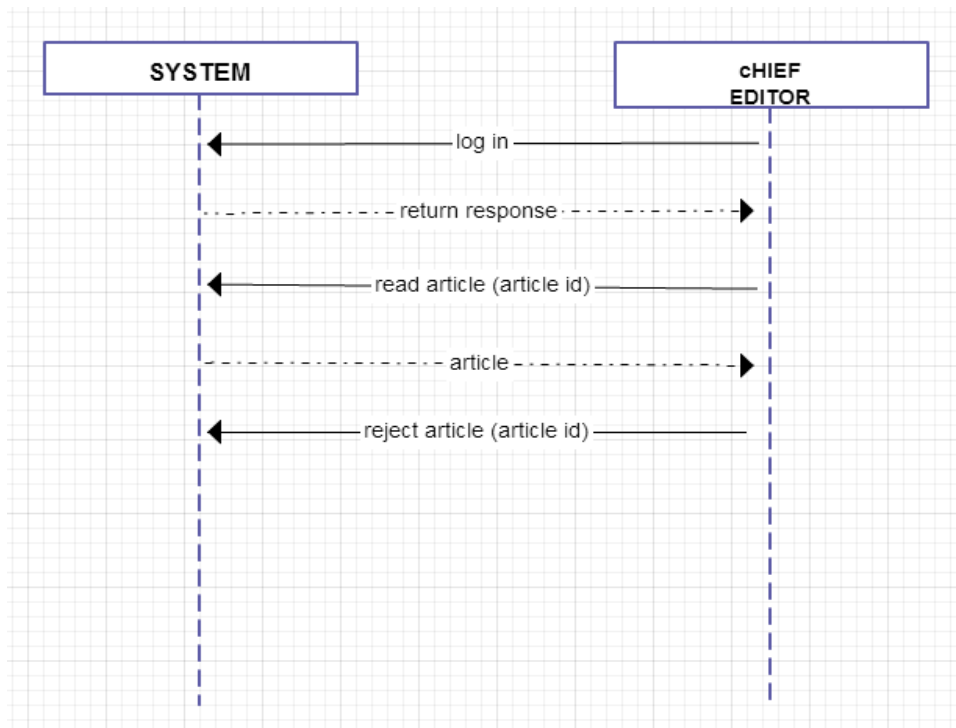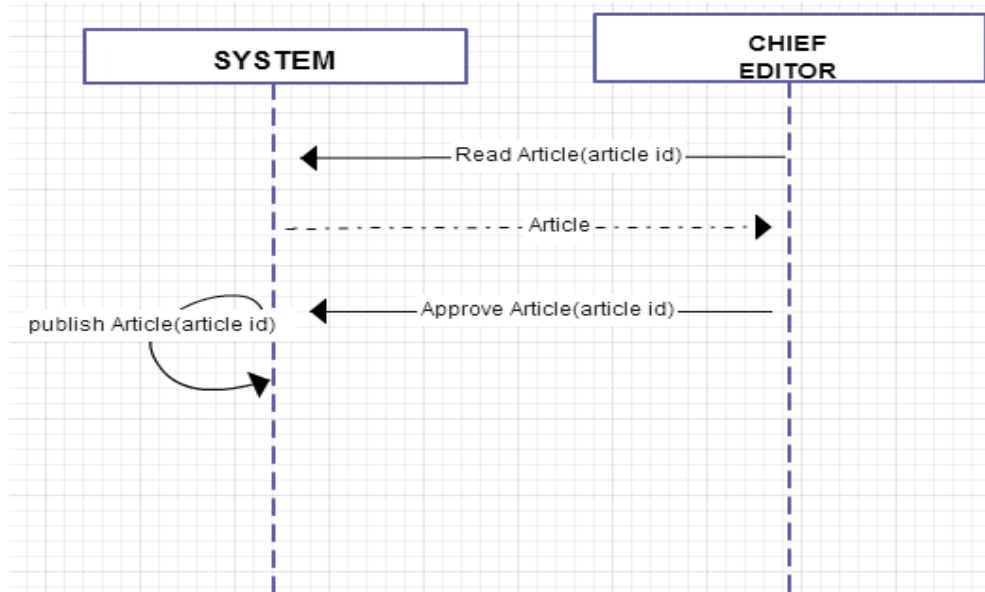

Figure(10):DFD.
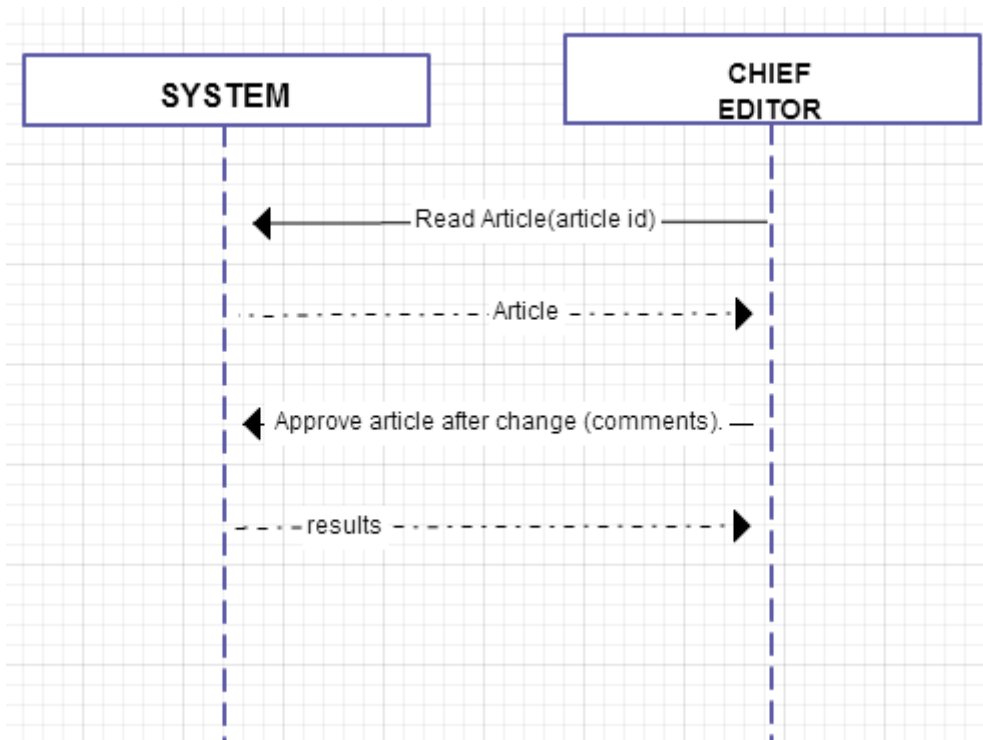
- Sequence diagram:
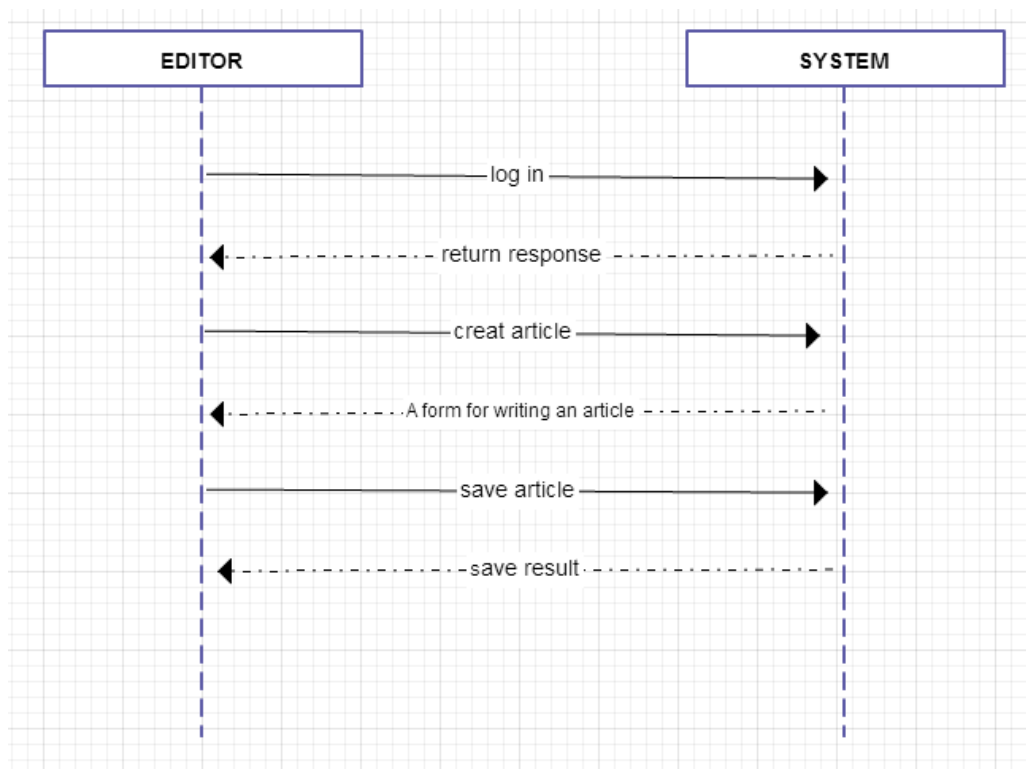
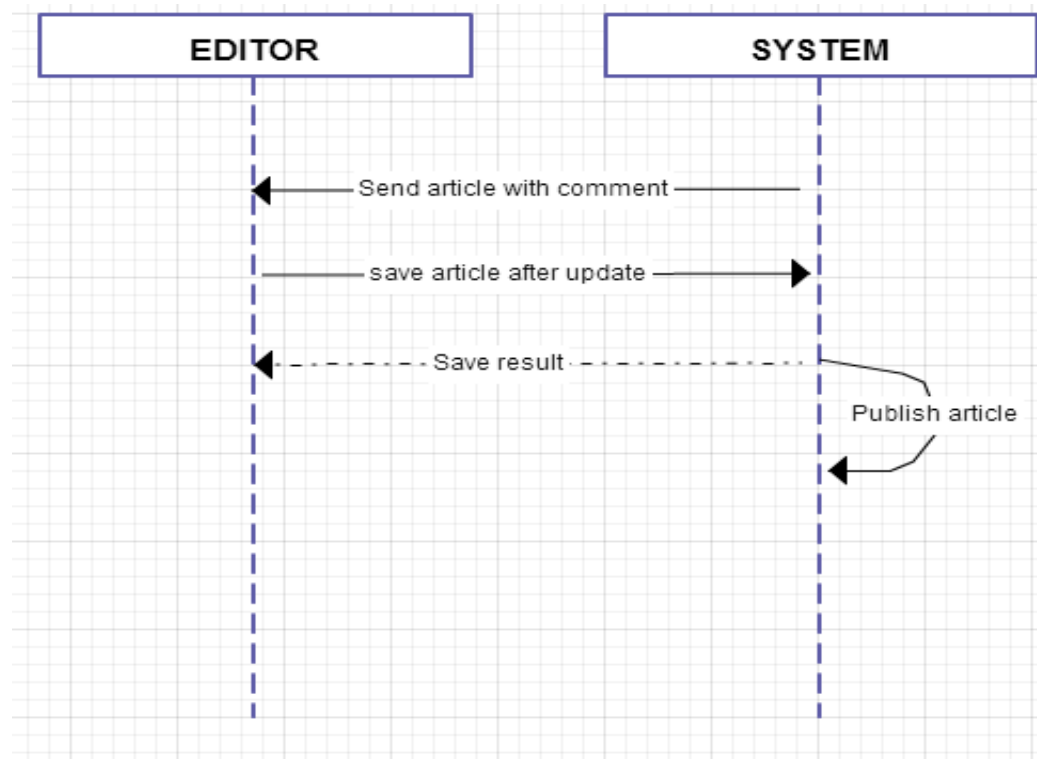Figure(11): Create article
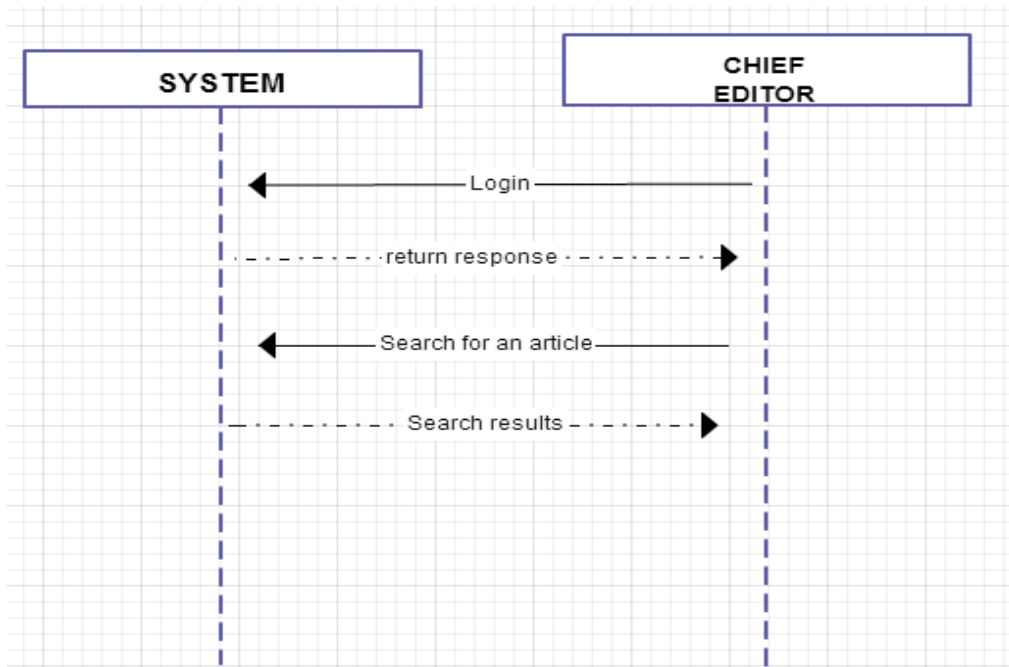
Figure(12): Search article.

Figure(13):Reject article.

Figure(14): Approve article.

Figure(15): Approve after change.

Figure(16):Publish article.

• Functional and non-functional requirements:

i. Functional Requirements:

Functional requirements define the fundamental actions that system must perform.   The
functional requirements for the system are divided into four categories: news, user (non
professional), a chief editor (group of users), and readers.

1-News:

  - The system shall be able to receive of news.

  - The system shall be able to read of news.

  - The system shall be able to news updated periodically.

2-Readers:

- The system shall enable users to search for specific news.

- The system shall echo returned service: this service allows the user to comment on publishing

and send emails to the editor commented on the newspaper, or submit publishing a proposal.

3- User (non-professional):

- The system shall be able to record editor's name.

- The system shall be able to record editor's ID.

- The system shall enable users to write an article.

- The system shall enable users to modify their articles.

4-A Chief Editor (group of user):

- The system shall be able to record editor's name.

- The system shall be able to record editor's ID.

- The system shall the validity of the chief editor in checking on the article.

- The system shall the enable the chief editor in the acceptance or rejection to publish article.

ii. Non- functional Requirements: Non-Functional requirements define the needs in terms of performance, security and usability.

- **Performance Requirements:** Performance requirements define acceptable response times for system functionality.

   - The load time for user interface screens shall take no longer than twoseconds.

   -The log in information shall be verified within five seconds.

   -Queries shall return results within five seconds.

- **Security Requirements:**

   - Access to the various subsystems will be protected by a user log in screen that requires a user name and password.

- **Usability Requirements:**

   - The user interface should be simple and clear so that the user can handle easily and conveniently.

   - Quickly and easily trade data online.