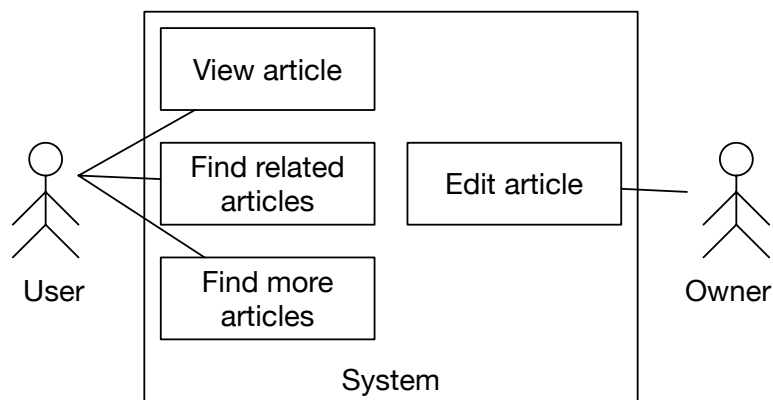# CS570 Homework#3
by Liang Zhang

Introduction

This design targets a functionality improvement of my personal website. This website is basically hosting articles about tools, languages and other technologies I learned and want to share with others. I have Google Analytics monitoring the traffic of my website and found an interesting user behavior. By looking at the visit history of some users, I noticed that their path is something like "article1 -> homepage -> article2 -> homepage -> …". It means they finished one article and tried to find more, so they went from articles to homepage back and forth.

Analyse

Scenarios: There are two scenarios in this case. One is the user reads an article and wants to know more about the technology introduced by this article. The other one is the user wants to find other articles in this website.

Persona: People interested in technology and willing to learn.

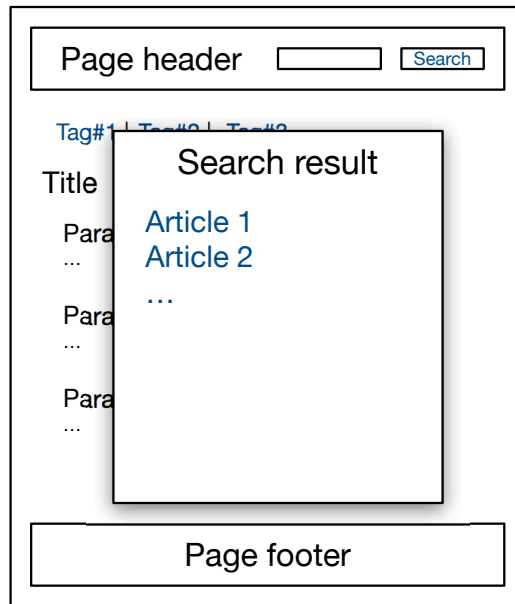**Use case**: The following diagram shows the user cases.

Design

On view article page, add tag list and search bar. The following diagram shows the mockup.

UI components:
Tag list consists of link of tags which are related to this article.
A search box and search button placed in page header.
Search result popup layer shows a list of article links.

Interactions:

Clicking a tag link performs a search request with tag name as the keyword and brings up the search result layer.

Clicking the search button performs a search request with the text in search box as the keyword and brings up the search result layer.

Clicking an article link in search result layer opens the corresponding view article page in the same browser window or tab.

Clicking outside of the search result layer dismisses the popup layer and the page should not be reloaded.