# Description of the Problem

A piece of software that will be able to find a path from a hyperlink, to another hyperlink. The webpages crawled and the pages they link to should be stored in a database.

# UML

# Requirements

## End user requirements:

To be able to input a starting webpage, and a end webpage, and the number of moves it needs to be done in, and receive a path or a statement that it is impossible.

## Functional requirements:

To be able to crawl a url and find all links on the url, follow them, and repeat the process until the maximum jumps is achieved.

The webpage’s url is to be stored then all the links leading off also need to be stored.

These are to be stored in a database using sql queries.

Sql queries then need to be written into a 2d array.

(possible: sort 2d array so that easier to read.)

Then a node map object is created using the data in the 2d array.

Then using a pathfinding algorithm, find A path (not shortest) from first link to second link in the maximum number of jumps given.

# Project plan