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### A. Modules

- 1) **Admin Module:** It consists of mainly Reports. The report is generated from the updated database. It includes Black Listed Websites and White Listed Websites.
- 2) **Black Listed Websites:** Black Listed Websites consists of mainly those sites which are not legal, and from which we can download the content illegally those websites are displayed in the Black Listed Websites.
- 3) **White Listed Websites:** White Listed Websites consists of mainly those sites which are legal, and from which we can download the content legally. So those websites which are legal those are displayed under the White Listed Website.
- 4) **Database:** All the White Listed and Black Listed websites are stored in the database.

The following Fig.1 gives a brief idea about the system architecture:

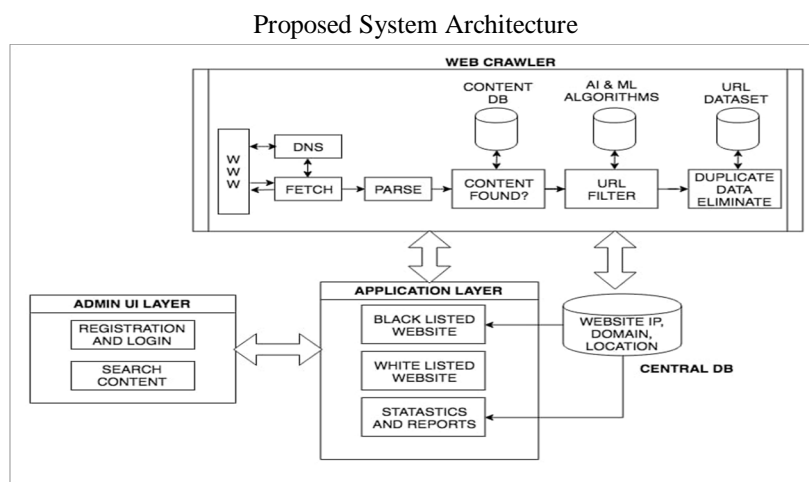


Fig. Architecture

## III. PROPOSED ALGORITHM

### A. Design Considerations

**LRU Page Replacement Algorithm:** The least recently used (LRU) replaces the page in memory that has been used for the longest period of. This algorithm goes well with the principle of locality. A page that has not been used for a long time is least likely to be referenced in the near future. This algorithm can be implemented by maintaining the backward distance of each page. Whenever a page is referenced its backward distance is set to zero. Backward distance of other pages is incremented by 1. Replace the page in memory that has not to be used for the longest period of time.

### B. Algorithm

- 1) **Step 1:** Read initial value i.e., number of frames, length of reference string and reference string.
- 2) **Step 2:** initialize array to -1, indicating that the frames are empty.
- 3) **Step 3:** change array size to 0, indicating it will be used for storing backward distance.
- 4) **Step 4 :** For each page reference i in the reference string, if i not in memory and frame=empty then  
 empty frame=i;  
 else if  
 i not in memory and frame!=empty then  
 longest page distance= i;  
 i=0;  
 else if  
 i in memory then  
 i=0;  
 else  
 i for each page=1;
- 5) **Step 5:** display result.
- 6) **Step 6:** end.

#### IV. RESULTS

We are making a System which is Web Application and it will help in detecting Media Piracy on the web. In this System it will search for a Content on the Search Engine and give the output as the list of websites on which the content was found. Then the user will manually check whether the website is a Black listed or White listed website and accordingly create report and send to the Admin from where the Notifications or the Warnings related to the illegal use of the website will be send to the owner of that website and hence reducing the Media Piracy.

#### V. CONCLUSION AND FUTURE WORK

It will be presented how AI, ML and DM can contribute to fighting the piracy. It will be applicable in the implementation of large scale content monitoring system that track and identify illegal distributed content. Using different web services and machine learning, the system will produce statistical report of media piracy with various information like; source of piracy, IP Addresses, region, time period etc. Also the system will store or blacklist all the untrusted websites and portals. In future we can analyze the previous searched illegal content. We can provide statistical report. In future, we will work on handling large data set.

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