

SOFTWARE DEVELOPMENT PROJECT BASED ON THE COURSE CSE 300

A Productive Browser Extension

to utilize browsing time more effectively and efficiently

A PRODUCTIVE BROWSER EXTENSION



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
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OUTLINE

- Introduction
- Objective
- System Design and Development
- Diagrams
- Result and Discussions
- Limitations
- Future scope
- Conclusion



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INTRODUCTION

INTRODUCTION

- Internet
- Browser
- Browser Extension
- Cross plate form
- Authentication
- To do task manager
- Remainder
- Favorite site



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HISTORY



- **History of Browsers:** Web browsers started their journey with NCSA Mosaic(1993), right after that Internet Explore launched on 1995 which create the completion on this sector on base of feathers. From there continuous browsers are coming with best public demand new features as like as: Opera(1996), Firefox(2004), Chrome(2008).
- **History of Extensions:** Internet Explorer was the first major browser to support extensions, with the release of version 5 in 1999. Firefox has supported extensions since its launch in 2004. Opera began supporting extensions in 2009, and both Google Chrome and Safari did so the following year. Microsoft Edge added extensions in 2016.

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OBJECTIVE

- ❑ To design and develop a smart browser extension for web browsers.
- ❑ To demonstrate several activities of extensions, such as, to-do list, demand tasks, statistics, favorites, time, weather, location, etc..



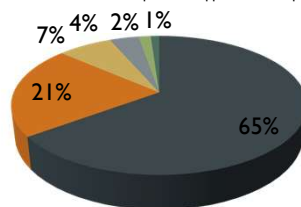
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BACKGROUND STUDY

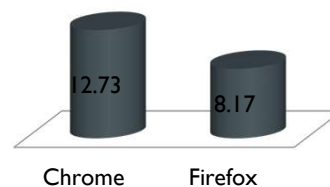
We have done a study on several browsers and their extensions. The three most popular desktop browsers are Chrome, Firefox and Microsoft Internet Explorer (in June 019).

Uses of Browser (%)

■ Chrome ■ Firefox ■ Internet Explorer ■ Apple Safari ■ Opera ■ Others



Uses of Extensions (%)

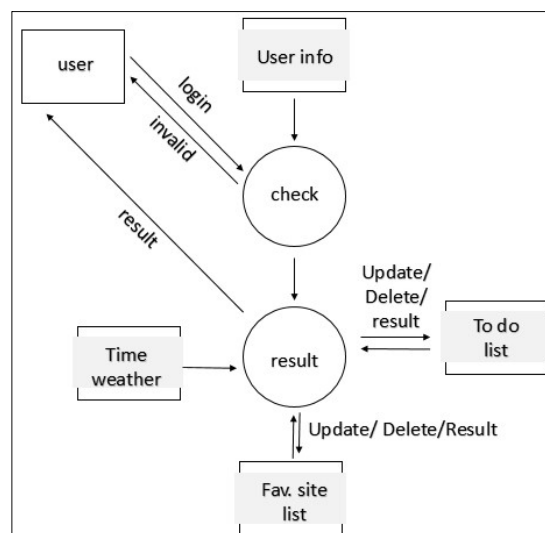


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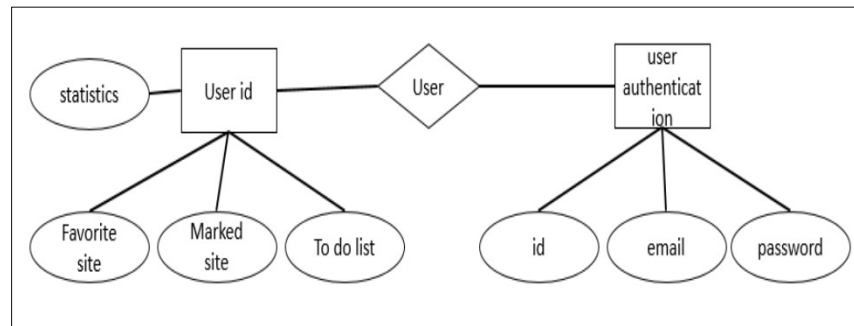


SYSTEM DESIGN AND DEVELOPMENT

DATA FLOW DIAGRAM:

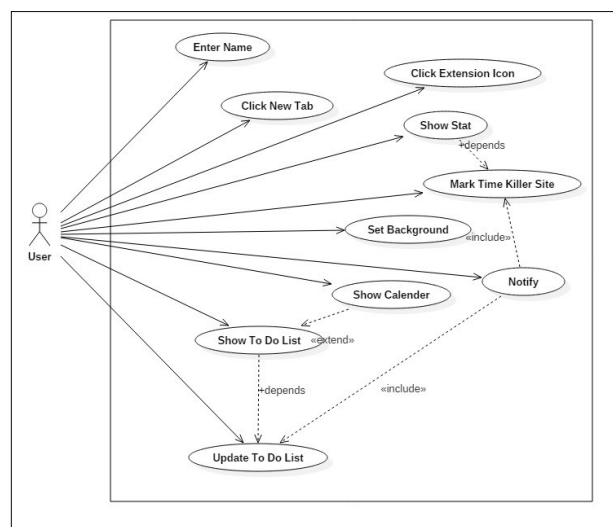


E-R DIAGRAM

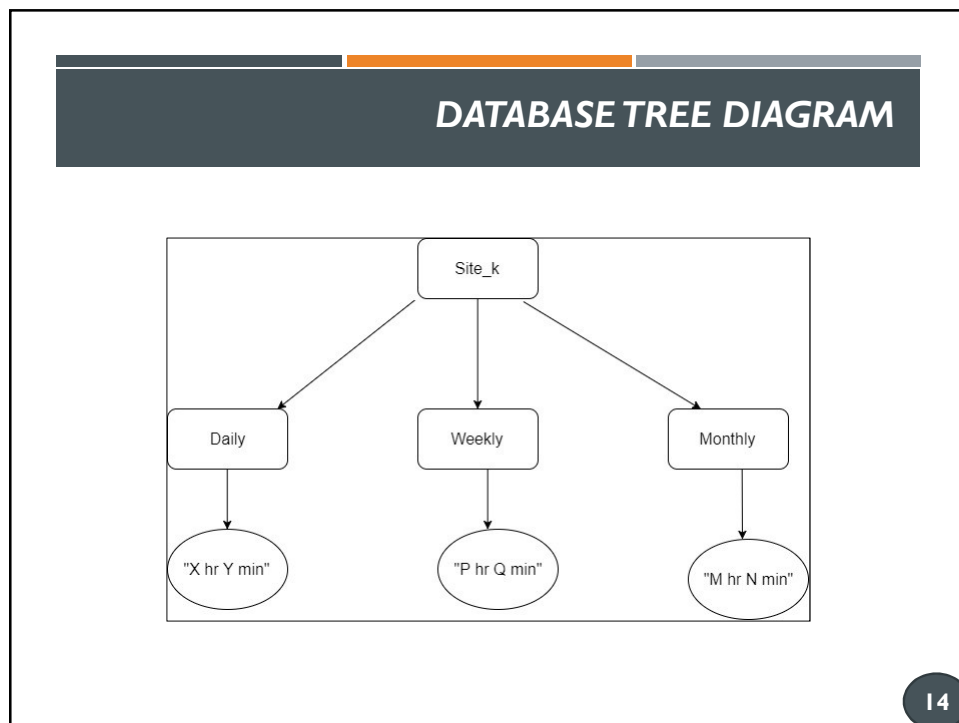
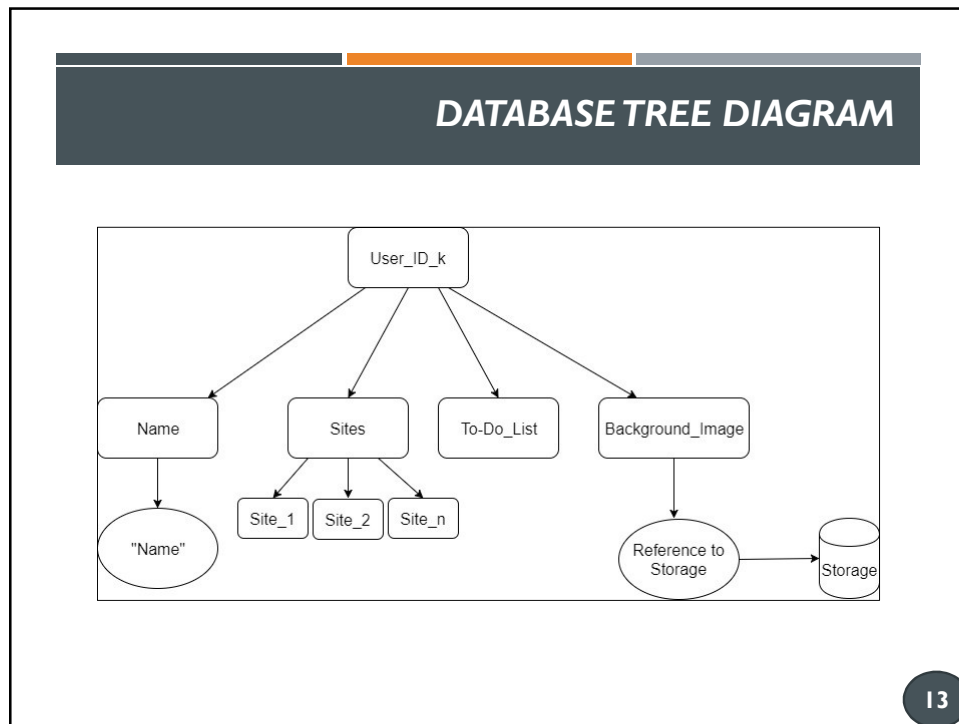


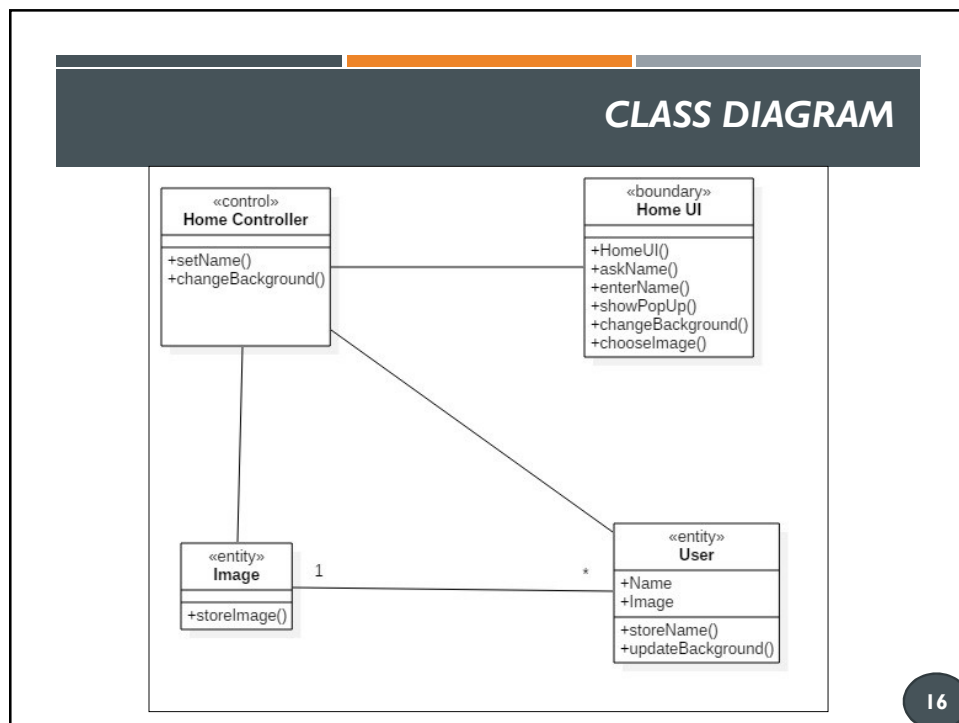
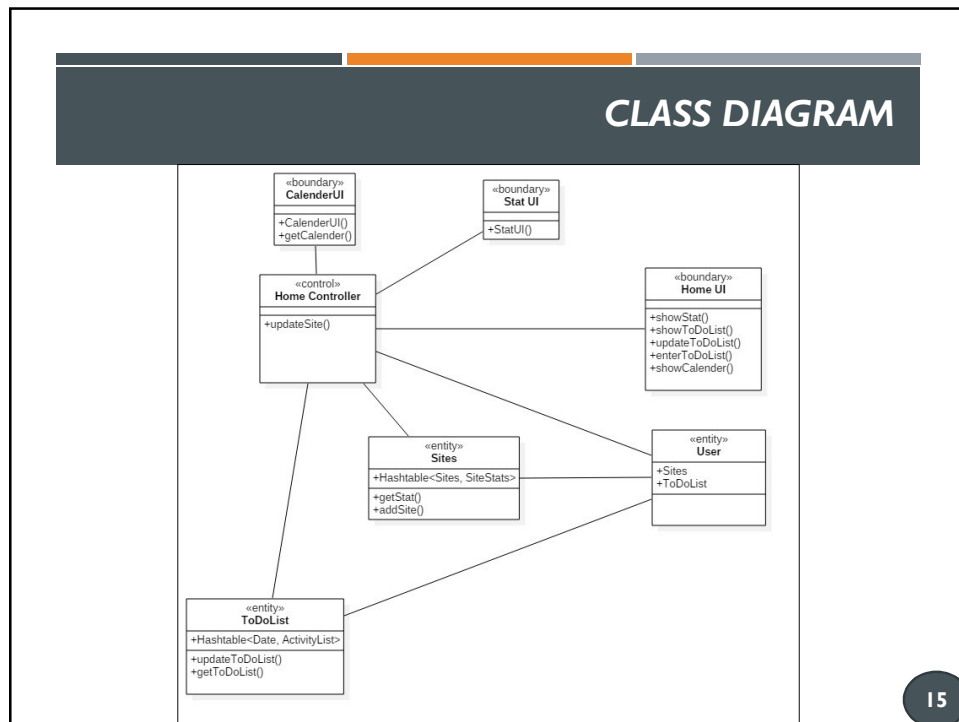
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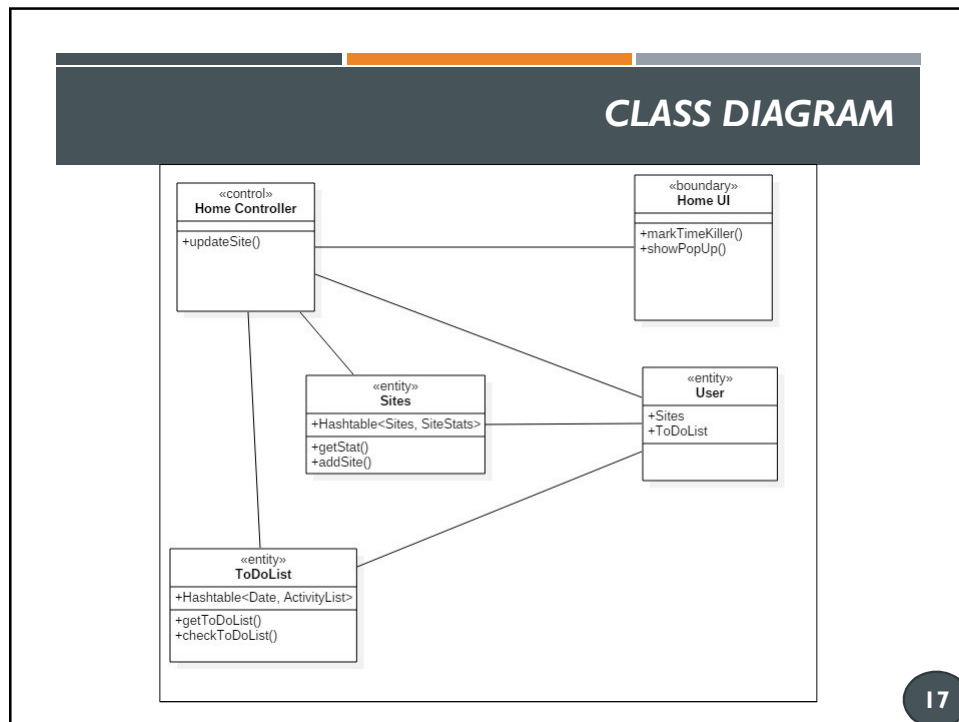
USER CASE DIAGRAM

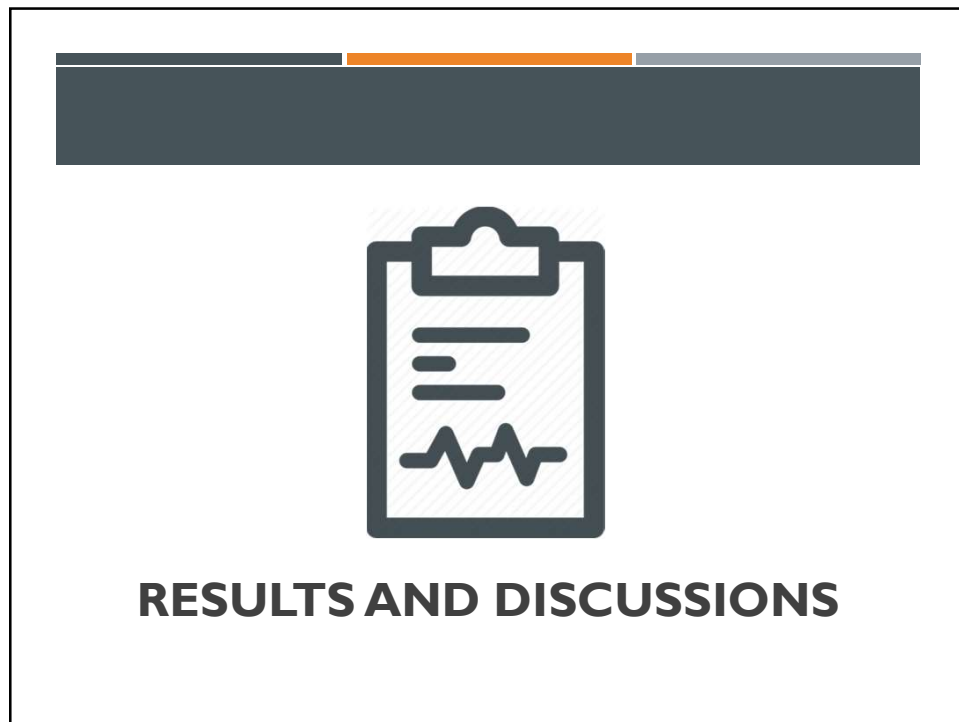


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RESULTS

- Home:** Home is loaded with services such as favorite link, stats, to do list, log in-out, clock, weather and some personal customizations.

Stats Favourite Links To-Do List Logout

Hello ashik
Your Tasks Today

08:53:23 AM

Trishal, Bangladesh 27°C
More

To Do
mm/dd/yyyy 11:59 PM
Low Medium High
ADD

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RESULTS

- Stats:** State creates the statistics of marked sites browsing.

Total Usage Statistics of Marked Sites

kudu.com :: 00 Minute(s)
0%

www.youtube.com :: 02.98 Minute(s)
100%

Marked Sites

www.youtube.com x

- Favorite Links:** Mark favorite sites for easy access and save them.

Favourite Links

https://stackoverflow.com/ x

https://www.facebook.com/ x

https://www.youtube.com/ x

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RESULTS

- To Do:** Add tasks with priority, date and time and get remainder .

To Do...

mm/dd/yyyy 11:59 PM

Low Medium High

ADD

To-Do List Logout

mm/dd/yyyy

12:00 AM 11:59 PM

Low Medium High

STUDY 11:59PM x

YOU 11:59PM x

youtube 11:59PM x

FB 11:59PM x

MEAL 11:59PM x

Home Stat Logout

MARK THIS SITE AS TIME KILLER

- Icon:** Create popup functions, go to stat, home, logout and mostly mar time killing sites.

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LIMITATIONS



This extension is having a problem with secure authentication with less verification, manage database organically, multiple log in to same id and ad blocker disable extension some times.

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FUTURE SCOPE

We have a plane to publish this extension on web store so need to solve authentication problem with two level verification both work on online and offline data analysis, ad-blocker problem should be remove and applicable multiple log-in access.



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CONCLUSION

- The aim of this project was to develop a smart extension for browsers. Based on several activities, extension is an important part of a browser.
- This is a cross platform extension with authentication verify on real-time database to manage task list with priority, mark websites to generate statics of browsing with showing time and weather.
- From the experimental results, it is concluded that the proposed extension can be used in any browser to demonstrate several activities.

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THE END

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TO UTILIZE BROWSING TIME MORE EFFECTIVELY AND EFFICIENTLY