Abstract:
Web browser is the most commonly used client application and speed and efficiency of our online work depends on browser to a great extent. As the market is flooding with new browsers there is a lot of confusion in everyone’s mind as to which is the best browser. Our project aims to answer this question. We have done a comparative study of the four most popular web browsers namely Mozilla Firefox, Internet Explorer, Google Chrome, Opera. In the first phase of our project various comparison parameters are selected which can be broadly categorized into -General Features, Security features and browser extensibility features. Using the selected benchmarking tools each browser is tested. We have also use our own test scripts for some parameters .Depending on the performance of the browser points are assigned to each browser .Public opinion is considered for usability issue and finally we have come to a conclusion that opera and Firefox are leading the browser war. Firefox has finished first scoring 49.84 and opera has scored the next highest 48.90[1].

Keywords: Smart Web Browser, Android Studio, SQL Database, Firebase, SQL Database.

I. INTRODUCTION

The web browser which basically used to browse the which are required by us. This is based on Android. The browser is created with the help of Android Studio & Google Search Engine. There are major terms used in this paper

Block ad trackers
Some ads track site visits, even if you don’t click on them

Block analytic trackers
Used to collect, analyze and measures activities like tapping and scrolling.

Block social trackers
Embedded on sites to track your visits and to display functionality like share information.

Block other content tracker
In this case some pages may behave unexpectedly.

Stealth
Hide web pages when switching apps

This browser also has some different history storing feature which gives the user a different experience while working with it. It is fast and smooth working.

II. EASE OF USE

• Web browser is used to run the software application that allows retrieving, presenting and traversing the information from one place to another.
• It can be easily updated and can be modified.
• Web browser provides the resources using the WWW (World Wide Web) this can be identified by URI (Uniform Resource Identifier).
• Web browser fetches the data like web page, image, video or other piece of content from the server and displays it accordingly.
• Web browser uses hyperlinks to display the resources and allow the users to navigate their browsers according to the resources.
• Web browser defines the application software that is designed for the user to access and retrieve the documents using the Internet.

III. NEED OF THIS BROWSER

The browser can be easily updated and modified. The browser is able to store history, add bookmarks, and have language setting. It also consists of quick links which can be modified by the user. It has AutoComplete URL system. Consist more than 500 popular URLs

IV. CREATION PROCESS

This Web Browser is created with the help of Android Studio. To create this browser first we need to have knowledge of Java and Advance Java. After that we must know how to use Android Studio, With the help of Android Studio we will create the layout files that is XML files and the java files. For having some different feature we have to go through many browser and their versions to know what features are there and not there to be added in the browser. Here in the above image we can see the designing part of the interface of our Software so we must know how to use Android Studio. That the main activity layout file. We have around 200-300 total files in this project. Each file requires a deep study on what required and what is not required for the browser. After that the code is compiled, indexed and scanned on same platform before installing into the Android device.

V. WORKING OF THE BROWSER

Working of browser is as simple as the other browsers. So let’s understand its working in step by step.

1. Install the browser.
2. Open the browser, then you got a home page like given below
3. We get a interface as shown below, this is the interface is of our home page
4. As we can see it has quick links tab, a searching bar, and a lot of bookmarks which can be added, deleted and updated.
5. In same way the quick links can also be added, deleted and updated.
6. This is a simple explanation to get the ease of use of the browser.
7. It can be easily used by the user.

8. After we get to the home page we have check our settings.
9. So, here we have to setting like language setting, privacy measures setting, font setting.

10. This is the interface of setting page.
11. Now we have some privacy setting like block ads tracker, block analytic tracker, block social tracker, block other content tracker.
12. These privacy measures are there to secure your data, browsing history.

13. In the above picture we have to language setting, it has almost 100 different languages, the default language of browser is English

14. In the above figure we can see the language is successfully changed to Hindi.
15. After going through the setting and having all the settings, according to there requirement of the user can now use it for the surfing process using bookmarks, quick links or directly entering the url.

16. Here we have example of facebook, a social media site accessed through this browser.

17. In the above figure we can see that how the history is saved or erased, other the browser is having the feature of auto deleting history.
VI. COMPARISION STUDY OF SMART WEB BROWSER

The browser battle has been raging almost as long as the internet has existed. But with new competitors in the fray and longtime entries revving up new technologies, the stakes have never been higher. In the late nineties and early taught, it was Microsoft’s Internet Explorer versus Netscape Navigator. Fast forward 20 years, and IE’s proprietary technologies for enabling interactive, application-like websites have given way to W3C standards-based features for delivering the online experience. Meanwhile, the browser landscape has a new dominant force: Google, the search and web advertising behemoth that delivers the most content of any source on the internet (according to com Score), also claims nearly 70 percent of the browser market with Chrome (based on both NetMarketShare and StatCounter numbers). That’s for desktop use; if you add in mobile, Chrome is still king at over 60 percent[2] So, here we have comparative study of our browser with other existing browser.

Best browser for 2019 are Google Chrome, Firefox etc., alike all those this browser is also for browsing purpose.

It is based on Windows 10, and uses of Google search engine.

Beside all browsers it consists of its own playlist which presents all the stuffs downloaded by the browser like pdfs, images, videos.

It has best privacy measure and it also clears the browsing history by its own until the user wish to do so.

PRAVICY MEASURE

Block ad trackers
Some ads track site visits, even if you don’t click on them

Block analytic trackers
Used to collect, analyze and measures activities like tapping and scrolling.

Block social trackers
Embedded on sites to track your visits and to display functionality like share information.

Automatic deletes the browsing history which makes it difficult for websites to use cookies.

Block other content tracker
In this case some pages may behave unexpectedly.

Stealth
Hide web pages when switching apps. After that the browser is having the feature of auto deleting history. The feature helps the user to block the trackers to enter into browser and get you’re your data with the help of cookies. It also gives the feeling of working in incognito mode. It has some already installed famous search engines, Although user can add their own search engine if they want to add.

Some Already installed search engines are:-
• Google
• Yahoo.co.uk
• Amazon.co.uk
• DuckDuckGo
• Qwant
• Twitter
• Wikipedia

TOOLS USED

Google

Google is the search engine which is the most important tool used in the creation of the browser. As browsing is so important. So, all browsing part is done through this Browser.

Firebase

Firebase is online data store, as firebase says “You don’t need to manage servers. You don’t need to write APIs. Firebase is your server, your API and your datastore, all written so generically that you can modify it to suit most needs.”

Android Studio
Android studio is an application which is used to create Android projects in an easy manner.

**SQL Database**

SQL database is a data-storing platform in the form of a table. It saves the data in a more secure way.

**VII. CONCLUSION**

The main theme of this project is to develop a web browser for the purpose of making web searches and downloading PDF, DOC, ZIP, and all types of files in an easy and stored manner. The project is made on the Android base and Android Studio platform is used to create the source code. The things which we learn from developing this project are what we come to learn about the way of creating web views, web pages, and all. After that, we can access the more about the most famous web browsers like Chrome, Mozilla, Firefox like how they work, what security measures they use, how to make the browser run smoothly. These are some of the things which we have learned during this project development.

**VIII. REFERENCES**


