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SRS DOCUMENT ON
“INTERNET EXPLORER BROWSER”

BACHELOR OF TECHNOLOGY

In
COMPUTER SCIENCE AND ENGINEERING

BY

Gyanendra Nath Shukla

REGISTRATION NO.: 12113311

Roll No.: 01

Section: K21RB(G1)

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

Lovely Professional University

Phagwara, Punjab (India)

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1. Introduction :- The introduction of the Software Requirements Specification (SRS) provides an overview of the entire SRS with purpose, scope, definitions, acronyms, abbreviations and overview of the SRS. The main aim of this document is to analyze and gather and give an in-depth insight of the complete "Internet Explorer Browser" by defining the problems in detail. Nevertheless, it also concentrates on the capabilities required by stakeholders and their needs while defining high-level product features. The detailed requirements are provided in this document.

1.1 Purpose:- The purpose of this SRS document is to collect and analyze all assorted ideas that have come up to define the system, its

requirements with respect to consumers and to provide detailed overview of our software product its parameters and goals. This document describes the project's target audience and its user interface, hardware and software requirements. It defines how our client, team and audience see the product and its functionality.

1.2 Scope :- A Internet Explorer Browser is a software application which enables a user to display and interact with text, images videos, music, games and other information typically located on a web page at a website on the World or a local area network. Text and images on a web page can contain hyperlinks to other pages at the same or different website. Web browsers allow a user

too quickly and easily access information provided on many web pages at many websites by traversing these links.

1.3 Definitions , Acronyms , Abbreviations

Definitions -

[i] - WWW :- It is a set of large interlinked hypertext documents accessed via internet.

[ii] - HTML :- It is a predominant markup language for the web pages . It is written in form of 'tags' in angle brackets .

[iii] - CSS :- This is a stylesheet language used to describe the presentation of a document written in markup language .

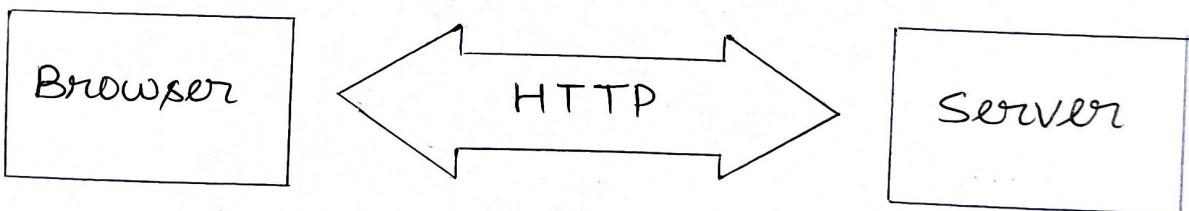
[iv] - Protocol :- Protocol is a convention or standard that controls or enables the connection communication and data transfer between computing end points .

Acronym and Abbreviation -

- (i) WWW - World Wide Web
 - (ii) HTML - Hyper Text Markup Language
 - (iii) HTTP - Hyper Text Transfer Protocol
 - (iv) CSS - Cascading style sheets
 - (v) IEEE - Institute of Electrical and Electronic Engineers
-

2. Overall Description -

2.1 Product Perspective :- The application will be self-contained.



3. Specific Requirements -

3.1 Functional Requirements :- According to the customer's use and needs the browser can perform the following functions :

3.1.1 Password Managing :

Description - It saves the password the user provides on various sites.

Input - After login a window become pop-up where we have to choose "save" or "Don't save".

Processing - Ace" to input it saves or don't save the password.

Output - Display password saved / denied.

3.1.2 Search Engine -

Description - Web search engine is a tool designed for information on World Wide Web.

The information may consist of web pages, images, information and other files.

Input - There user types what he want to search in search bar.

Processing - In the backend server collects information related to my searched topic.

Output - Display the page consists of information as images, web page or other type of files also.

3.1.3 Bookmark Managing :

Description - Internet Bookmark are stored Web page locations that can be retrieved. Its purpose is to easily catalog and access web pages that a user has visited and chosen to save.

Input - User clicks on bookmark button for bookmark that site.

Processing - Checks about the sites, fetches the data and adds in bookmark

Output - That site shows in bookmark list and user can open anytime that page.

3.1.4 Reload or Refresh Button :

Description - If you suspect the contents of a browser's window may have changed since the last time you viewed it, you should click the Reload or Refresh Button to update the page.

Input - User clicks on reload or refresh button.

Processing - Server fetches the information related to the site to show.

Output - Display the actual window that is updated page.

3.1.5 Print Button :-

Description - you can print any web page by clicking on this button.

Input - User clicks on print button.

Processing - System makes ready that web page to print.

Output - Printed form of that page displays in down load section of system.

3.2 Non- Functional Requirements :-

3.2.1 Reliability :- It is ability of an item, system or software to operate under

designated operating conditions for a designated period of time or number of cycles. So Browser supports the all latest function what are need to fulfill the user requirements.

3.2.2. Availability :- It means a property of a software that it is there and ready to carry out its task when you need it to be. So it can be downloaded from of the site to carry its task.

3.2.3. Security :- security means implementing mechanisms in the construction of security to help it remain functional to attacks. Browser supports the privacy mode.

3.2.4 Portability :- It is a characteristic attribute to a computer program.

if it can be used in a operating system other than the one in which it was created without requiring major rework.

Internet Browser supports all the operating system like windows, linux etc.

3.2.5 Efficiency :- It is the amount of software developed or requirement divided by the number of resources used like time, effort code etc.

3.3 Constraints :-

3.3.1 Monitor sizes and ratios. color or black and white monitors render it virtually possible to design pages that look good on all device types.

3.3.2 Font sizes and colors need

to be alterable to fit the requirements of sight-impaired viewers.

3.3.3 The situation becomes more complicated when interactive resizing of windows and frames printing or communication conditions.

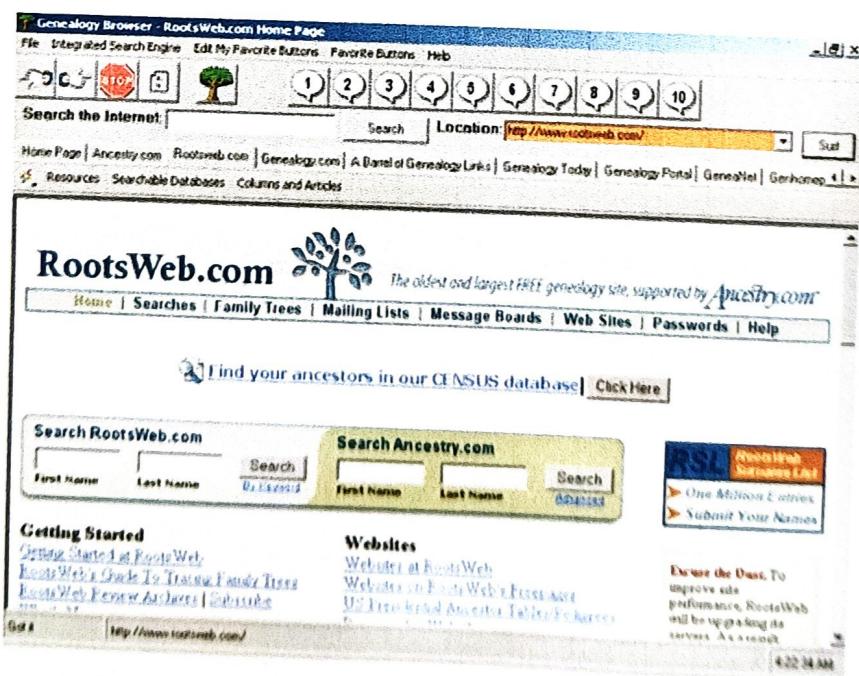
3.3.4 At least 64 MB RAM and 233 MB hard disk will be required for running the browser.

3.3.5 Buggy browser extensions/plugins are often targeted by bad guys. Internet Explorer Browser does no checking for outdated extensions.

3.4 Interfaces :-

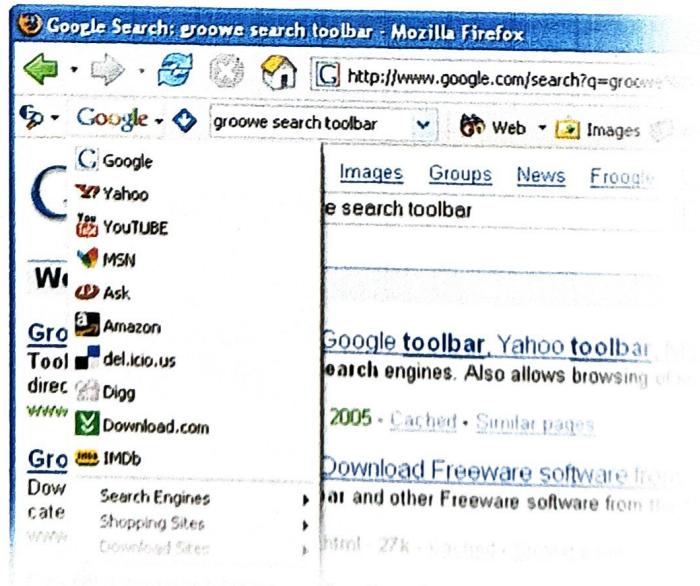
3.4.1 User Interface - The application will have a user-friendly and menu based interfaces. Following things will be included -

- ✓ Bookmark managing
- ✓ Download managing
- ✓ Form, Password managing
- ✓ Spell - checking
- ✓ Search - Engine toolbar
- ✓ Privacy mode
- ✓ Auto updaters
- ✓ Pop-up blocking



3. 4. 2 Toolbar -

- ✓ Address Field
- ✓ Auto - fill form button
- ✓ Back - button
- ✓ Refresh
- ✓ Home
- ✓ Favorites
- ✓ Close - Box
- ✓ Fonts
- ✓ Forward Button
- ✓ Security Indicators
- ✓ Status Button
- ✓ Stop Button



3.4.3 Password Box - It manages the password and other information given by the user only if the user wants it to save.

Do you remember the password on this site?

- Yes
- No
- Not now
- Don't ask again

3.4.4 Download Box - It shows current downloading on the system.

Download box	
Current downloading	 
Download rate	
Clear list	

 Pause

 Play

3.4.5 Error Page - The page displayed when the address is not appropriate or the connection is not there.

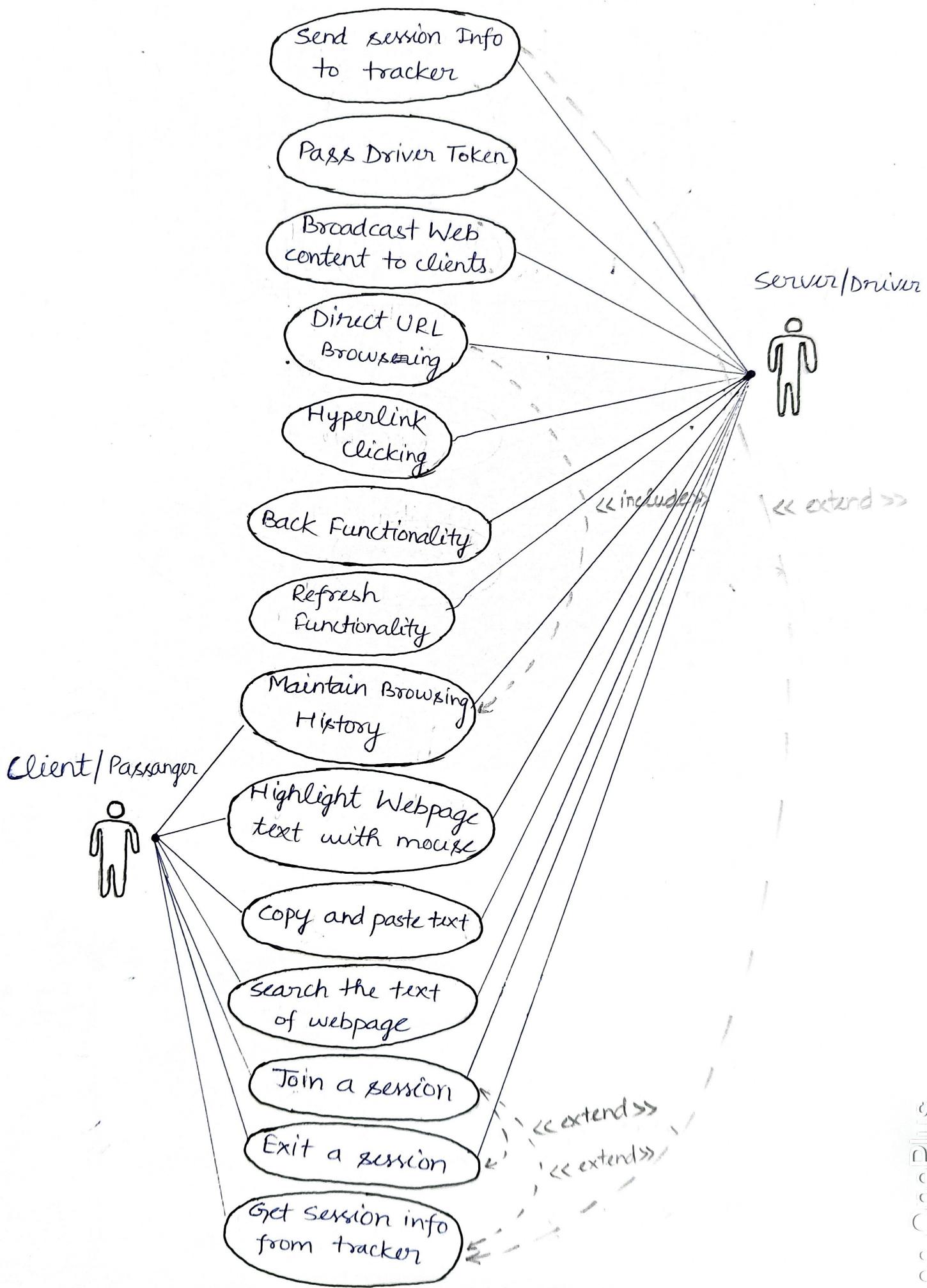
The page cannot be displayed

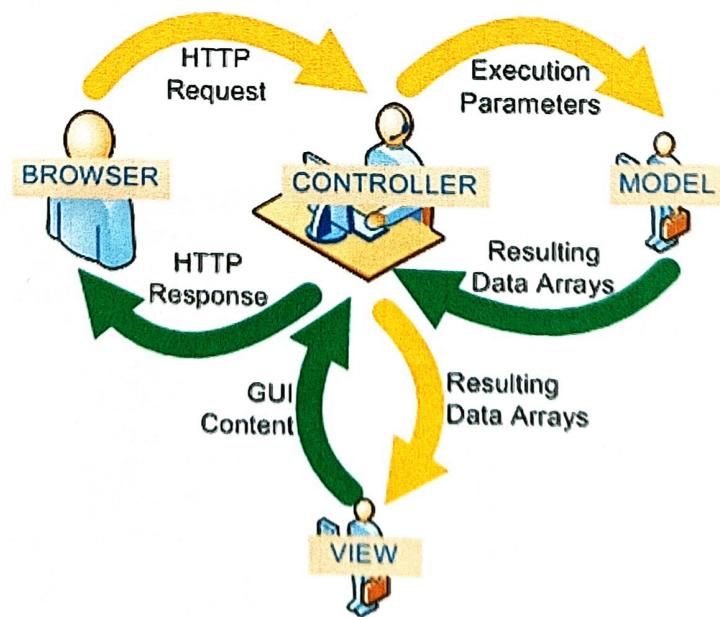
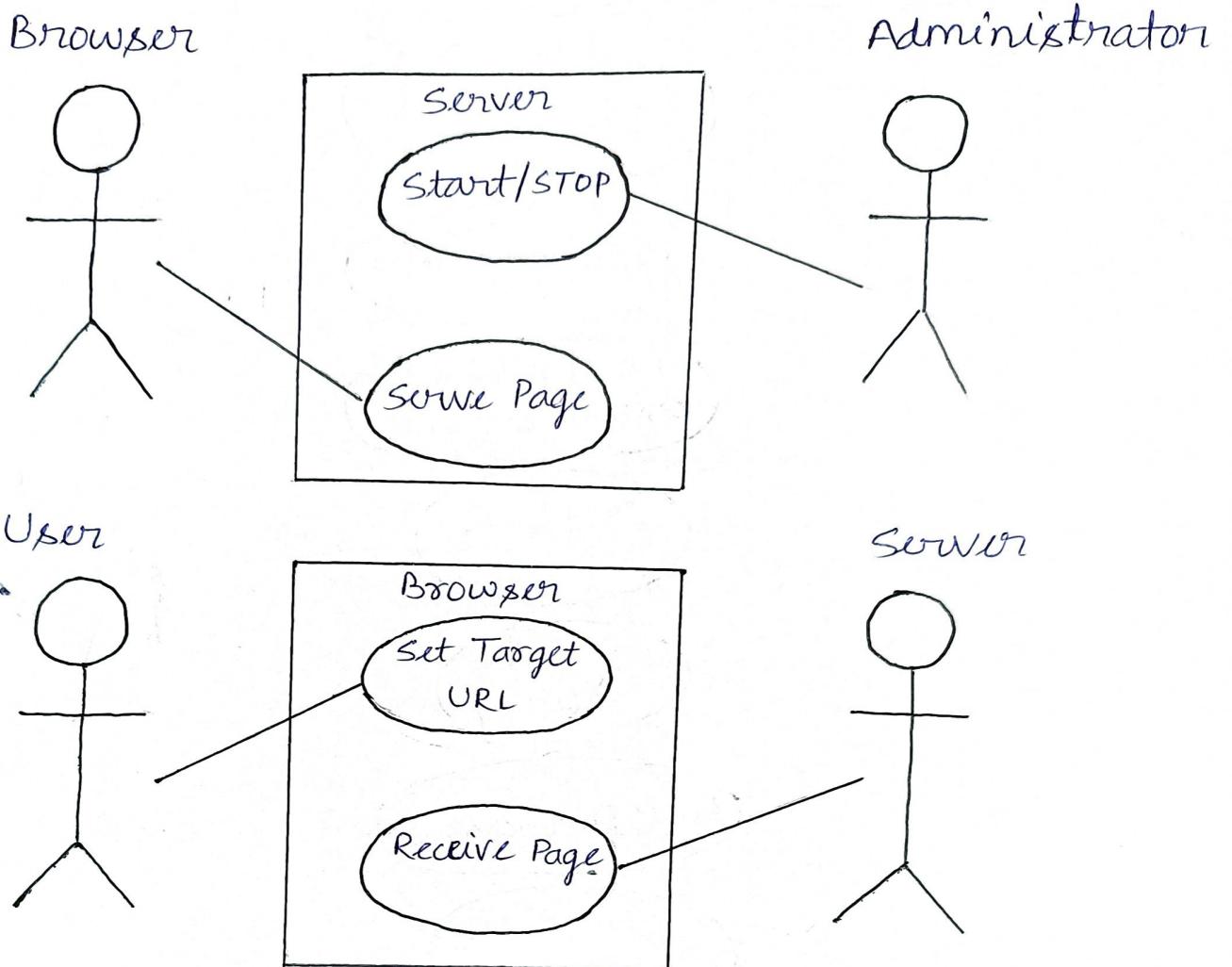
The page you are looking for is currently unavailable. The Web site might be experiencing technical difficulties, or you may need to adjust your browser settings.

Please try the following:

- Click the Refresh button, or try again later.
- If you typed the page address in the Address bar, make sure that it is spelled correctly.
- To check your connection settings, click the **Tools** menu, and then click **Internet Options**. On the **Connections** tab, click **Settings**. The settings should match those provided by your local area network (LAN) administrator or Internet service provider (ISP).
- See if your Internet connection settings are being detected. You can set Microsoft Windows to examine your network and automatically discover network connection settings (if your network administrator has enabled this setting).
 1. Click the **Tools** menu, and then click **Internet Options**.
 2. On the **Connections** tab, click **LAN Settings**.
 3. Select **Automatically detect settings**, and then click **OK**.
- Some sites require 128-bit connection security. Click the **Help** menu and then click **About Internet Explorer** to determine what strength security you have installed.
- If you are trying to reach a secure site, make sure your Security settings can support it. Click the **Tools** menu, and then click **Internet Options**. On the Advanced tab, scroll to the Security section and check settings for SSL 2.0, SSL 3.0, TLS 1.0, PCT 1.0.
- Click the **Back** button to try another link.

Use-Case Diagram :-





Project Name:

Test Case Template

Test Case ID: 1

Test Designed by:

Test Priority (Low/Medium/High):

Test Designed date:

Module Name:

Test Executed by:

Test Title: Password Managing

Test Execution date:

Description: Save to password of any site

Pre-conditions: System should be connect to internet.

Dependencies:

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
1	Login to any site	Username and password	Password should be save and displaying in password manager	Password saved and displaying in password manager	Pass
2	Provide username and password				
3	click on save option				

Post-conditions: Username and password of sites are logged in database.

Project Name:

Test Case Template

Test Case ID: 2

Test Designed by:

Test Priority (Low/Medium/High):

Test Designed date:

Module Name:

Test Executed by:

Test Title: searching on search engine

Test Execution date:

Description: User can search any object

Pre-conditions: System should be connect to internet.

Dependencies:

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
1	Open search engine	subject - google	User should be able to see related information	User navigated to related page consisting information	Pass
2	Provide proper subject				
3					
4					

Post-conditions: User navigated to related page successfully.

Project Name:

Test Case Template

Test Case ID: 3

Test Designed by:

Test Priority (Low/Medium/High):

Test Designed date:

Module Name:

Test Executed by:

Test Title: Addition in Bookmark

Test Execution date:

Description: User can add any site to bookmark

Pre-conditions: System should be connect to network

Dependencies: Any site should be open

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
1	Open any site		Site should be	Site is showing	Pass
2	click on bookmark		Show in book	in bookmarks!	
3	button		-mark list		
4					

Post-conditions: URL of site has been added in bookmark successfully.

Project Name:

Test Case Template

Test Case ID: 4

Test Designed by:

Test Priority (Low/Medium/High):

Test Designed date:

Module Name:

Test Executed by:

Test Title: Refresh Page

Test Execution date:

Description: In case of window opening issue user can refresh page.

Pre-conditions: System should have proper internet connection

Dependencies:

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
1	Open any site		Updated or actual window	Updated page has been open	Pass
2	click on refresh button	NA	of tab should be displayed.		
3			open		
4					

Post-conditions: Updated tab has been opened successfully.

Project Name:

Test Case Template

Test Case ID: 5

Test Designed by:

Test Priority (Low/Medium/High):

Test Designed date:

Module Name:

Test Executed by:

Test Title: Printing of any page

Test Execution date:

Description: User want pdf form of page then can print page

Pre-conditions: Any window should be open to print.

Dependencies:

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
1	Any window should		pdf form of that	pdf form of that	Pass
2	be open		window should be file can be see		
3	click on print button		save in pdf in downloads		
4					

Post-conditions: Page has been printed successfully.