UCS1511 - COMPUTER NETWORKS

Webpage download

REG NO : 205001085   **EX.NO : 11**
NAME   : SABARIVASAN
DATE   : 02.11.22

OBJECTIVE :

To implement a HTTP web client program to download using socket programming in C .

CODE :

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <sys/socket.h>
#include <netdb.h>
#include <arpa/inet.h>

int main(int argc, char *argv[])
{
    int socket_desc, i, bytes_read;
    char server_reply[1024], ip[100],
request[100],trail[100],filename[50];
    char *hostname = argv[1];
```

```c
    struct sockaddr_in server;
    struct hostent *he;
    struct in_addr **addr_list;
    FILE *fp;

/*Splitting the trailer part*/
strcpy(trail,"\0");

int l = 0;

for(l=0;l<strlen(hostname);l++)
    if(hostname[l] == '/')
    {
            break;
    }

if(l!=strlen(hostname))
{
    strcpy(trail,hostname+l);
    hostname[l] = '\0';
    printf("Hostname = %s, file = %s",hostname,trail);
}

    if ((he = gethostbyname(hostname)) == NULL) {
    //gethostbyname failed
    herror("gethostbyname\n");
    return 1;
    }

    addr_list = (struct in_addr **) he->h_addr_list;

    for(i = 0; addr_list[i] != NULL; i++) {
```

```c
//Return the first one;
strcpy(ip , inet_ntoa(*addr_list[i]) );
}

//Create socket
socket_desc = socket(AF_INET, SOCK_STREAM, 0);
if (socket_desc == -1) {
printf("Could not create socket!\n");
}

server.sin_addr.s_addr = inet_addr(ip);
server.sin_family = AF_INET;
server.sin_port = htons(80);

//Connect to remote server
if (connect(socket_desc , (struct sockaddr *)&server ,
sizeof(server)) < 0) {
printf("connect error!\n");
return 1;
}

printf("Connected...\n");

for(int i=0;hostname[i]!='\0';i++)
//Send some data
snprintf(request, 99, "GET %s HTTP/1.1\r\n"
"Host: %s\r\n"
"\r\n\r\n", trail,hostname
);

if (send(socket_desc, request, strlen(request), 0) < 0) {
puts("Send failed!\n");
```

```c
            return 1;
        }
        puts("Data Sent...\n");

        //Receive a reply from the server
    printf("\nEnter the filename: ");
    scanf(" %s",filename);

        fp = fopen(filename, "w+");

        while (bytes_read = read(socket_desc, server_reply,
sizeof(server_reply)) > 0) {
        fputs(server_reply, fp);
        memset(server_reply, 0, sizeof(server_reply));
        }
        do {
        bytes_read = read(socket_desc, server_reply,
sizeof(server_reply));
        fputs(server_reply, fp);
        memset(server_reply, 0, sizeof(server_reply));
        } while (bytes_read > 0);

        printf("reply received...\n");

        fclose(fp);
        close(socket_desc);

        return 0;
}
```

OUTPUT :

HTTP/1.1 301 Moved Permanently Date: Wed, 02 Nov 2022 09:19:29 GMT Server: Apache Location: https://www.ssn.edu.in/wp-content/uploads/2021/02/NIRF-2021-SSNCE-ENGG.pdf Content-Length: 282 Connection: close Content-Type: text/html; charset=iso-8859-1

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National Institutional Ranking Framework
Ministry of Education
Government of India
Welcome to Data Capturing System: ENGINEERING

Submitted Institute Data for NIRF'2021'

Institute Name: Sri Sivasubramaniya Nadar College of Engineering [IR-E-C-16604]

Sanctioned (Approved) Intake

Academic Year	2019-20	2018-19	2017-18	2016-17	2015-16	2014-15
UG [4 Years Program(s)]	780	960	900	780	-	-
PG [2 Year Program(s)]	180	216	-	-	-	-

Total Actual Student Strength (Program(s) Offered by Your Institution)

(All programs of all years)	No. of Male Students	No. of Female Students	Total Students	Within State (Including male & female)	Outside State (Including male & female)	Outside Country (Including male & female)	Economically Backward (Including male & female)	Socially Challenged (SC+ST+OBC Including male & female)	No. of students receiving full tuition fee reimbursement from the State and Central Government	No. of students receiving full tuition fee reimbursement from Institution Funds	No. of students receiving full tuition fee reimbursement from the Private Bodies	No. of students who are not receiving full tuition fee reimbursement
UG [4 Years Program(s)]	2524	1440	3964	3437	469	58	725	1205	371	569	203	787
PG [2 Year Program(s)]	48	90	138	129	8	1	80	40	20	5	5	90

Placement & Higher Studies

UG [4 Years Program(s)]: Placement & higher studies for previous 3 years

Academic Year	No. of first year students intake in the year	No. of first year students admitted in the year	Academic Year	No. of students admitted through Lateral entry	Academic Year	No. of students graduating in minimum stipulated time	No. of students placed	Median salary of placed graduates(Amount in Rs.)	No. of students selected for Higher Studies
2014-15	819	829	2015-16	101	2017-18	800	633	400000(four lakhs)	120
2015-16	819	826	2016-17	101	2018-19	787	642	440000(four lakhs forty thousand)	123
2016-17	780	830	2017-18	101	2019-20	703	579	500000(Five lakhs)	107

PG [2 Years Program(s)]: Placement & higher studies for previous 3 years

Academic Year	No. of first year	No. of first year	Academic Year	No. of students graduating in minimum	No. of students	Median salary of	No. of students