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// Group number : B
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/* Description : Displaying column names according to the file selected from options.txt
                Saving records according to the user option from the data obtained from processes
*/
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//In client.c
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```
#define MAX 200
void read_options(int sockfd)
{
    char buff[MAX],no_of[50];
    char data[MAX],option[MAX],opt[100][100];
    int n,no_of_opts;
        bzero(buff, sizeof(buff));
        read(sockfd, buff, sizeof(buff));
        printf("The Options are: \n %s \n",buff);
    char * token = strtok(buff, ",");
    int j=0;
    while(token != NULL){
        printf("%d . %s \n",j+1, token);
        j++;
        token = strtok(NULL, ",");
    }

    printf("\nplease enter one of the options");
    scanf("%s",data);

    write(sockfd, data, sizeof(data));
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printf("the available columns are , please select one of the column\n");

    bzero(buff, sizeof(buff));

    read(sockfd, buff, sizeof(buff));

    printf("%s",buff);

    scanf("%s",option);


    printf("Please enter exit to quit");


    if ((strcmp(buff, "exit", 4)) == 0) {
        printf("Client Exit...\n");
        exit(0);
    }
}

```

//Option2: Saving the records

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if(sel == 2){
    FILE *fptr = fopen("op.txt", "wb");
    fwrite(fie, sizeof(char), sizeof(fie), fptr);
    fclose(fptr);
}

}else if(atoi(input) == 2){
    FILE *fptr = fopen("out.txt", "wb");
    for(int i=0;i<200;i++){
        if(strlen(arr[i]) !=0){
            char* token = strtok(arr[i], s);
            int j=1;
            //printf("==> %d \n",flag);
            while(token != 0){

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        if(j== flag){
            token = strtok(0,s);
        }

        fprintf(fp, " %s", token);

        token = strtok(0,s);

        j++;

    }

    fprintf(fp, "\n");
    fprintf(fp, "\n");

}

```

//In server.c

```

// read the message from client and copy it in buffer
read(connfd, buff, sizeof(buff));

printf("%s",buff);

// print buffer which contains the client contents
if(strcmp(buff,"bookInfo.txt")==0){

    char column_names[50] = "Book category, Star rating, Stock";
    char column_option[100];

    write(connfd,column_names,sizeof(column_names));

    printf("Waiting for column options\n");

    read(connfd, column_option, sizeof(column_option));

    printf("%s \n",column_option);

    if((strcmp(column_option,"book
category")==0) || (strcmp(column_option,"book")==0)){

        printf("%s",column_option);

    } else if((strcmp(column_option,"star
rating")==0) || (strcmp(column_option,"star")==0)){

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        printf("%s",column_option);
    }else if(strcmp(column_option,"stock")){
        printf("%s",column_option);
    }else{
        printf("Hello world \n");
    }
}

}else if(strcmp(buff,"amazonBestsellers.txt")==0){
    char column_names[50] = "User rating, Year, Genre";
    char column_option[100];
    write(connfd,column_names,sizeof(column_names));
    printf("Waiting for column options\n");
    read(connfd, column_option, sizeof(column_option));
    printf("%s \n",column_option);
    if((strcmp(column_option,"user
rating")==0) || (strcmp(column_option,"user")==0)){
        printf("%s",column_option);
    } else if(strcmp(column_option,"year")==0){
        printf("%s",column_option);
    }else if(strcmp(column_option,"genre")){
        printf("%s",column_option);
    }else{
        printf("Hello world \n");
    }
}
else{
    printf("option Not Available");

}

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        // if msg contains "Exit" then server exit and chat ended.
        if (strncmp("exit", buff, 4) == 0) {
            printf("Server Exit...\n");
            //      break;
        }
    }
}

```

//In process.c

```

//copy process results into arr
char arr[200][200];
for(int i = 0; i < 200; i++){
    strcpy(arr[i], process_array[choice][i]);
}

//send array to server
if(write(fout[1], arr, sizeof(sizeof(char) * 200) * 200) < 0){
    return 1;
}

}

```

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else if(option == 2){
    for(int i = 0; i < processes; i++){
        char process_str[100];
        sprintf(process_str, "%s\n", values[i]);
        strcat(str, process_str);
    }

    size_t length = strlen(str);
    write(fout[1], str, length);

    read(fin[0], buffer, sizeof(buffer));

    int choice;
    for(int i = 0; i < processes; i++){
        if(strcmp(values[i], buffer) == 0){
            choice = i;
            break;
        }
    }

    char arr[200][200];
    for(int i = 0; i < 200; i++){
        strcpy(arr[i], process_array[choice][i]);
    }

    if(write(fout[1], arr, sizeof(sizeof(char) * 200) * 200) < 0){
        return 1;
    }
}

```

