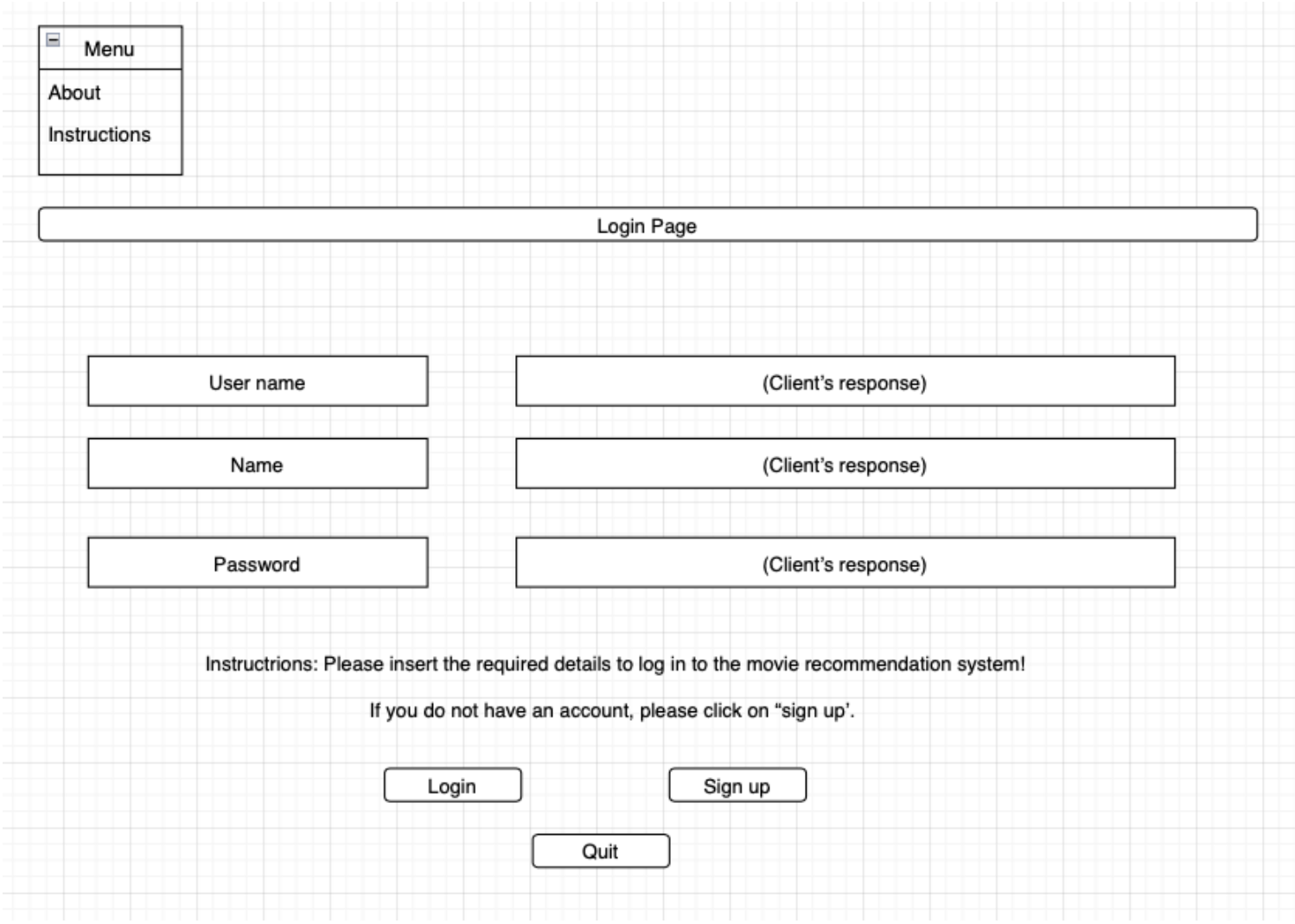
Computer Science Internal Assessment

Criterion B: Design Document

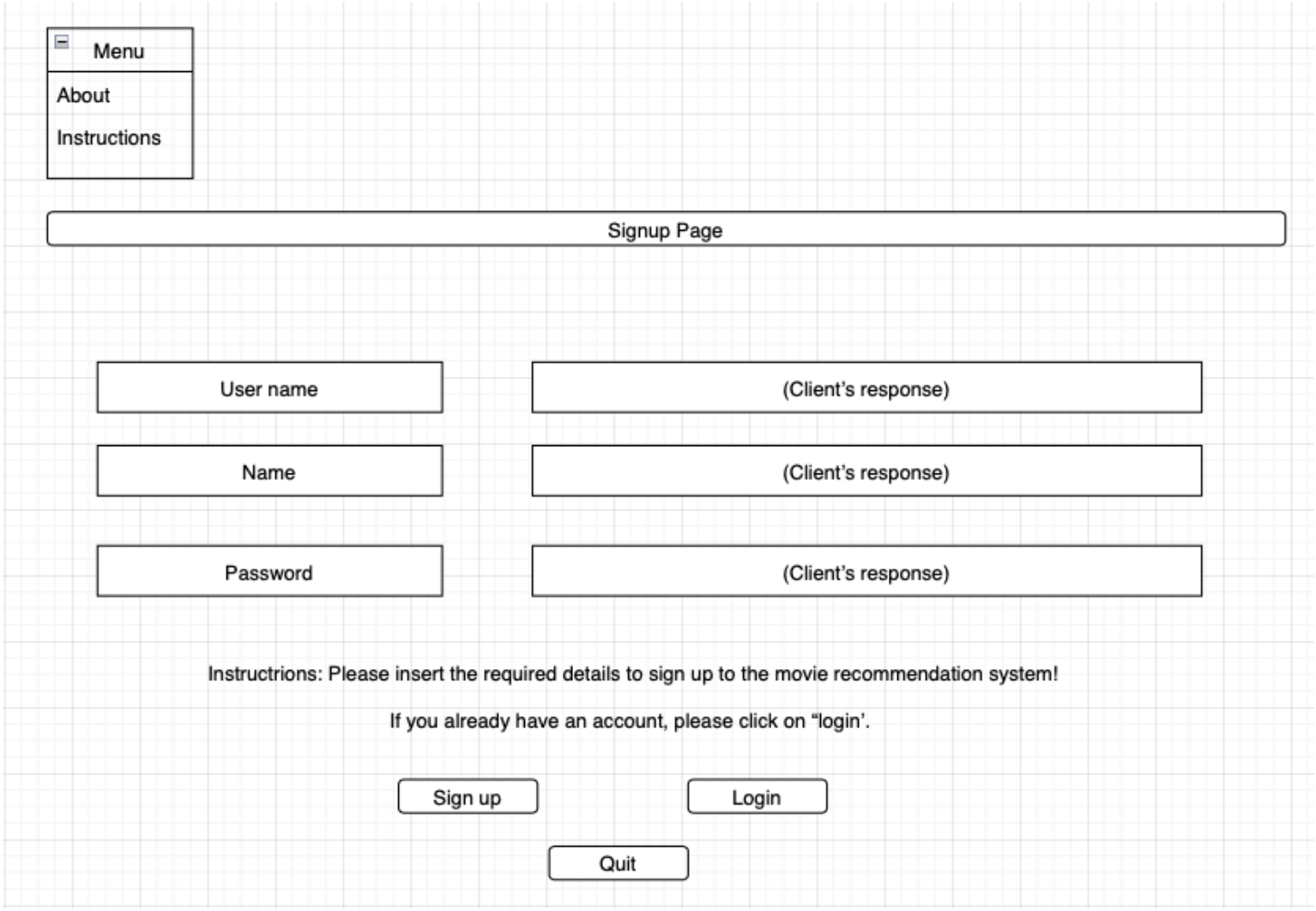
Wordcount (this document): 291

(scroll down to see the designs)

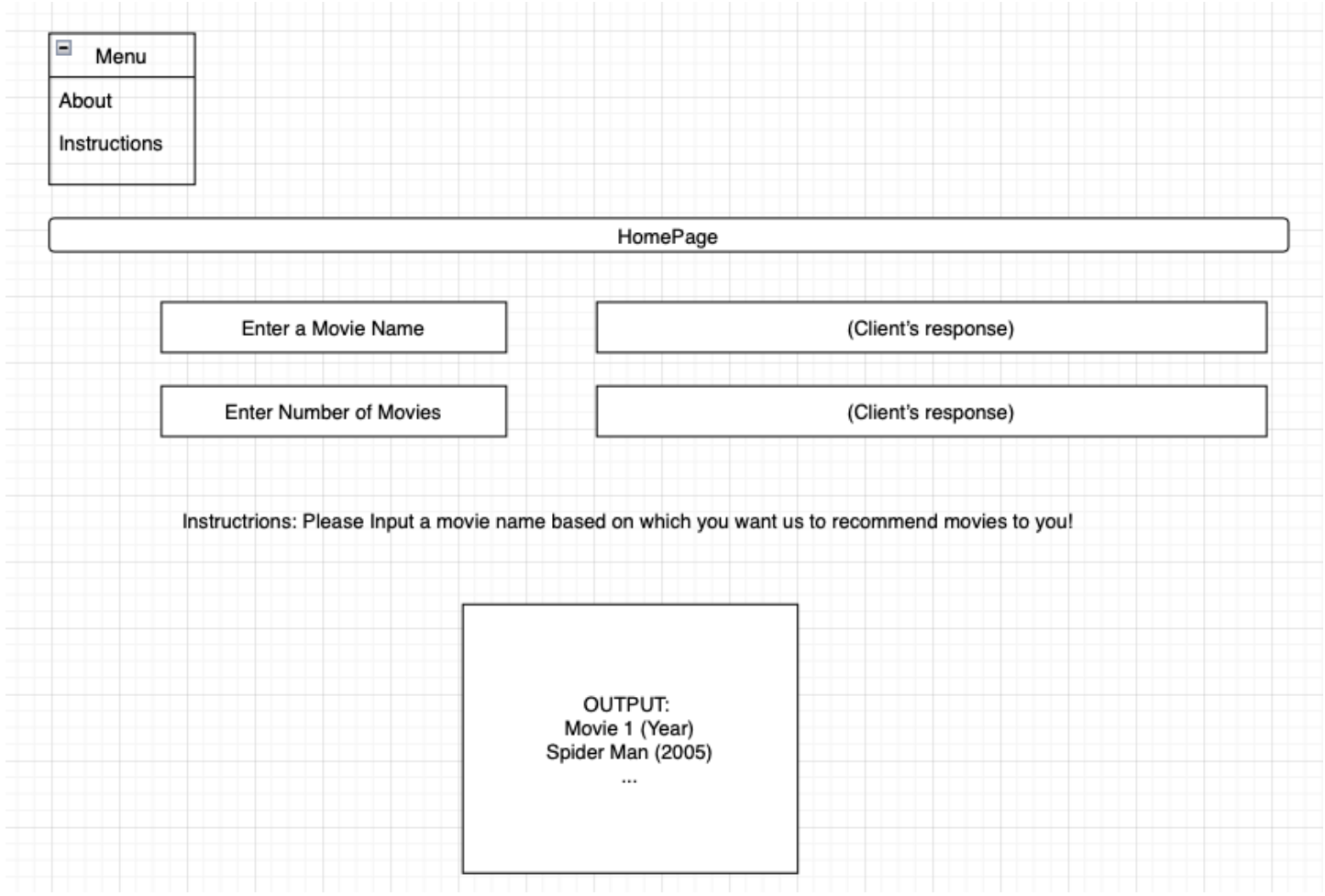
Login Page: The first page that is displayed to the users: includes login details, a menubar with dropdown options, instructions and buttons, guiding the user smoothly through the process.



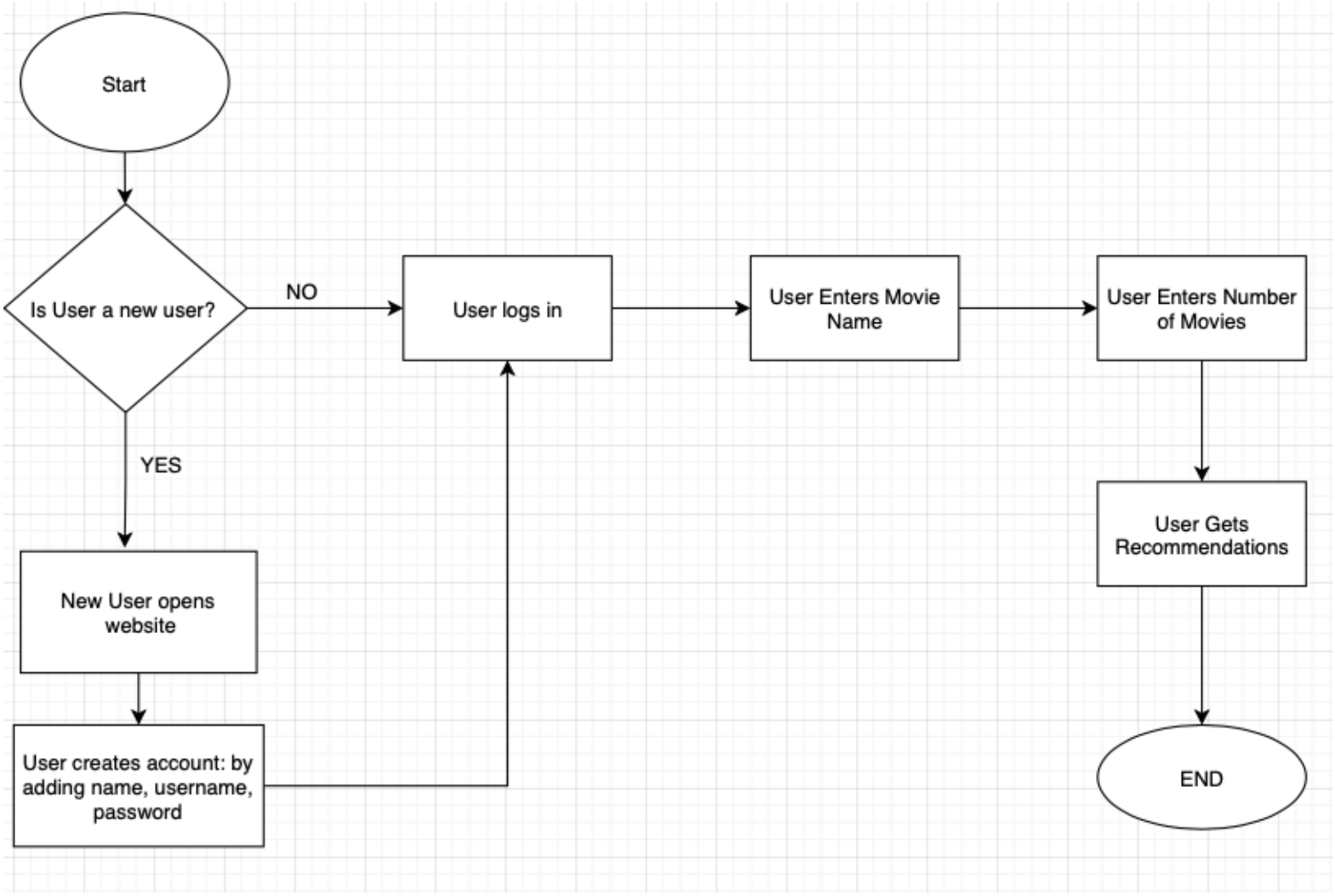
Signup Page: Includes buttons, menubar, instructions and entry boxes for the user to register onto the website and database. Similar structure to the login page.



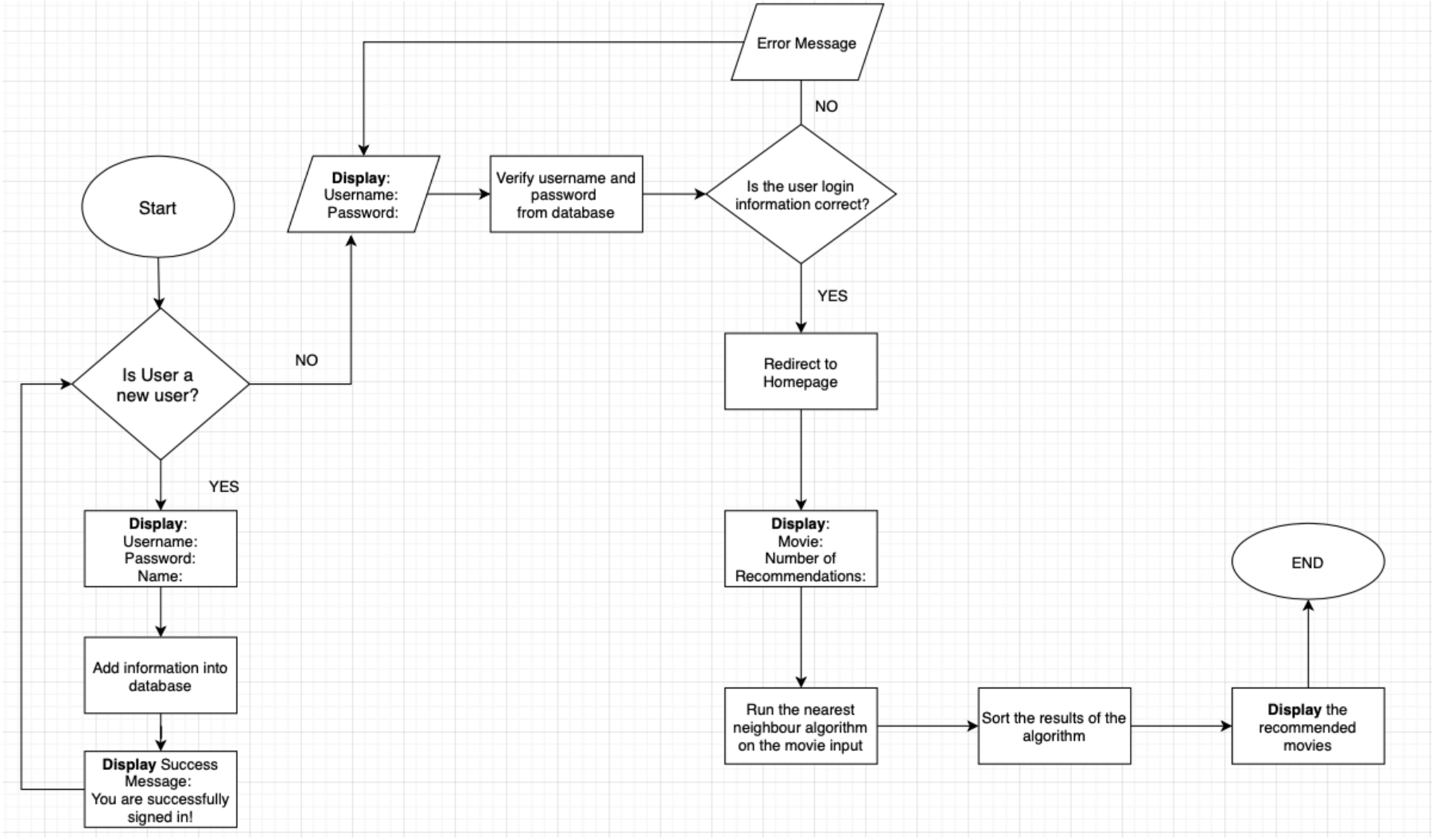
Home Page: Main homepage with input boxes, menubar and instructions. Also, there will be a background image in the display.



User Flowchart: This shows the way the user will guide through the program. As he/she arrives at the website, the aspects displayed on the screen are mentioned in the user flowchart below.



Program Flowchart: This is the flowchart which deliniates the back-work of the program. Based on the user's actions, the program will run accordingly, as is displayed in the flowchart below.



Database:

Main Ratings Matrix: This matrix is the main matrix used for this program. It will be derived using data from the Kaggle movie dataset, and will be then employed to run the nearest neighbour algorithm. Each cell refers to the ratings given by the user for the cirresponding movie. As new users will create an account, their unique user ID will be added to this matrix.

	$User_1ID$	$User_1ID$	$User_1ID$	$User_1ID$	$User_1ID$
$Movie_1ID$	$rating_{U1M1}$	$rating_{U1M2}$	$rating_{U1M3}$	$rating_{U1M4}$	$rating_{U1Mn}$
$Movie_1ID$	$rating_{U2M1}$	$rating_{U2M1}$	$rating_{U2M3}$	$rating_{U2M4}$	$rating_{U2Mn}$
$Movie_1ID$	$rating_{U3M1}$	$rating_{U3M2}$	$rating_{U3M3}$	$rating_{U3M4}$	$rating_{U3Mn}$
$Movie_1ID$	$rating_{UnM1}$	$rating_{UnM2}$	$rating_{UnM3}$	$rating_{UnM4}$	$rating_{UnMn}$

User Information: This table will be used to store the information of each account. As users enter their login information the program will input this within the database. This will be used for storing and login verification purposes.

UserID	**Password**	**Username**	**Name**
$UserID_1$	$Password_1$	$Username_1$	$Name_1$
$UserID_2$	$Password_2$	$Username_2$	$Name_2$
$UserID_3$	$Password_3$	$Username_3$	$Name_3$
$UserID_n$	$Password_n$	$Username_n$	$Name_n$