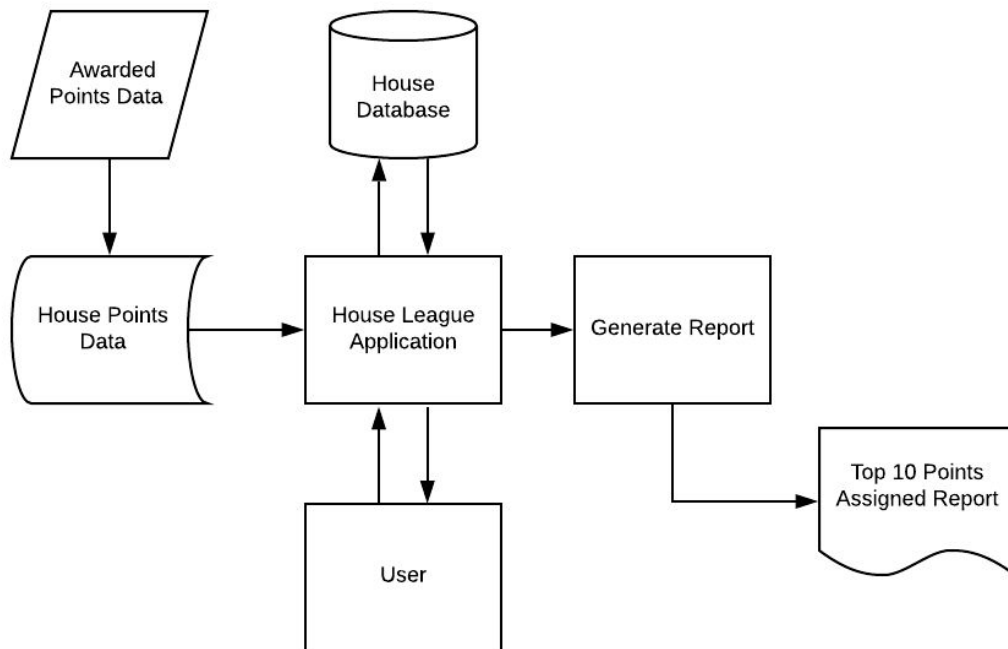


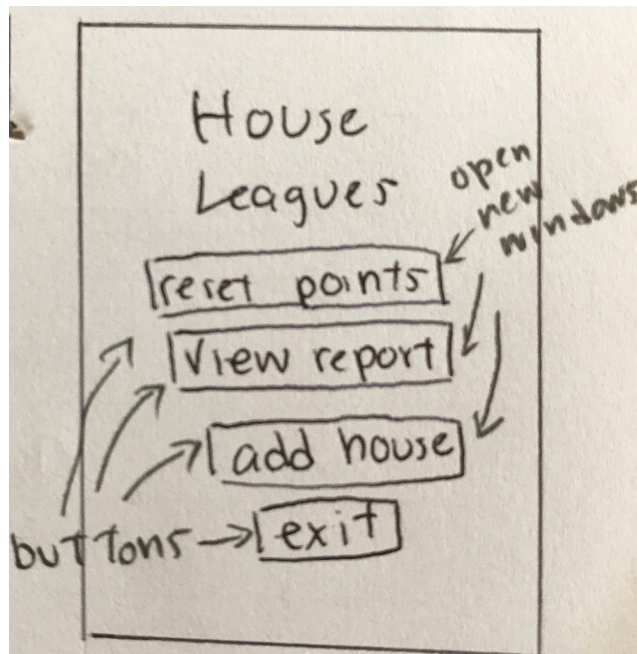
Criteria B: Designing

System Flow Chart

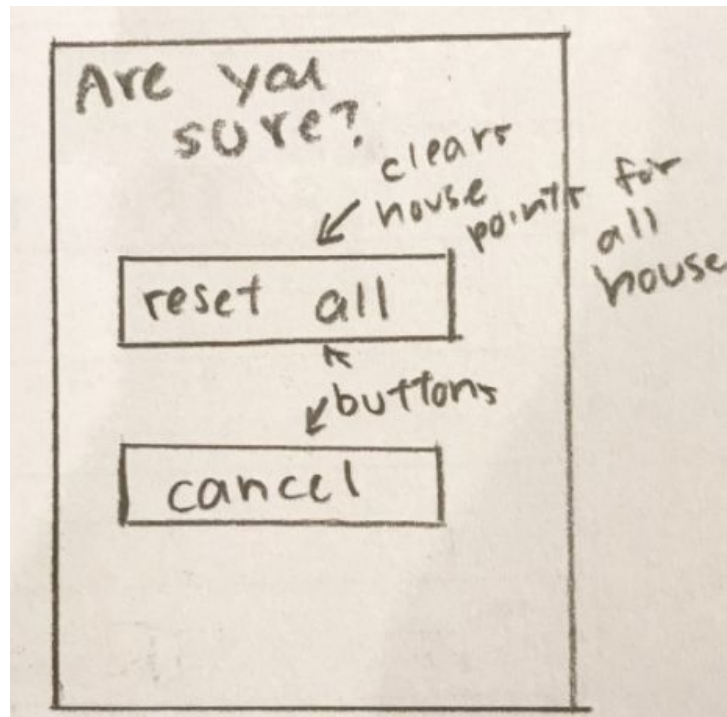


User Interface Design

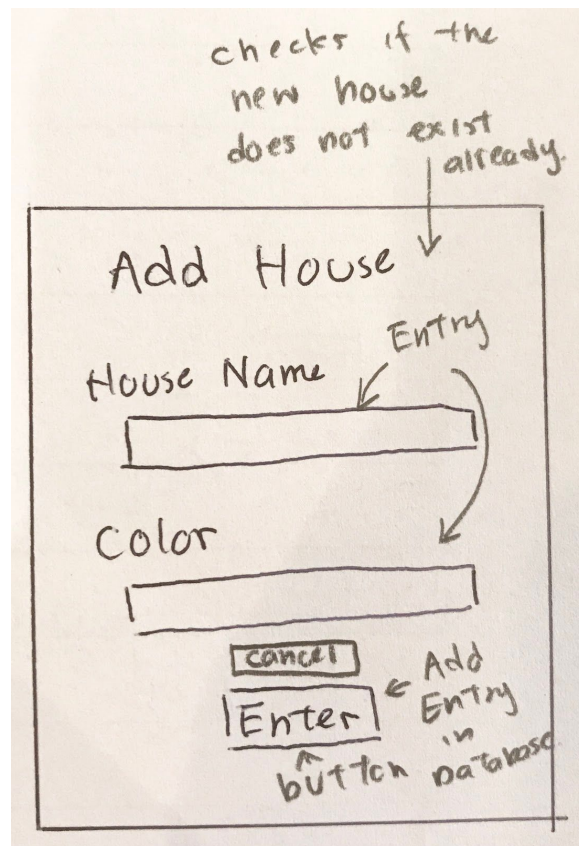
Home Page:



Resetting Points Windows



Add house Window



Report of top 10 teachers:

Top 10 Teachers Assigning House Points.

#	First Name	Last Name	Teacher House	receiver house	Points	Date
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

Scroll bar
if window gets smaller

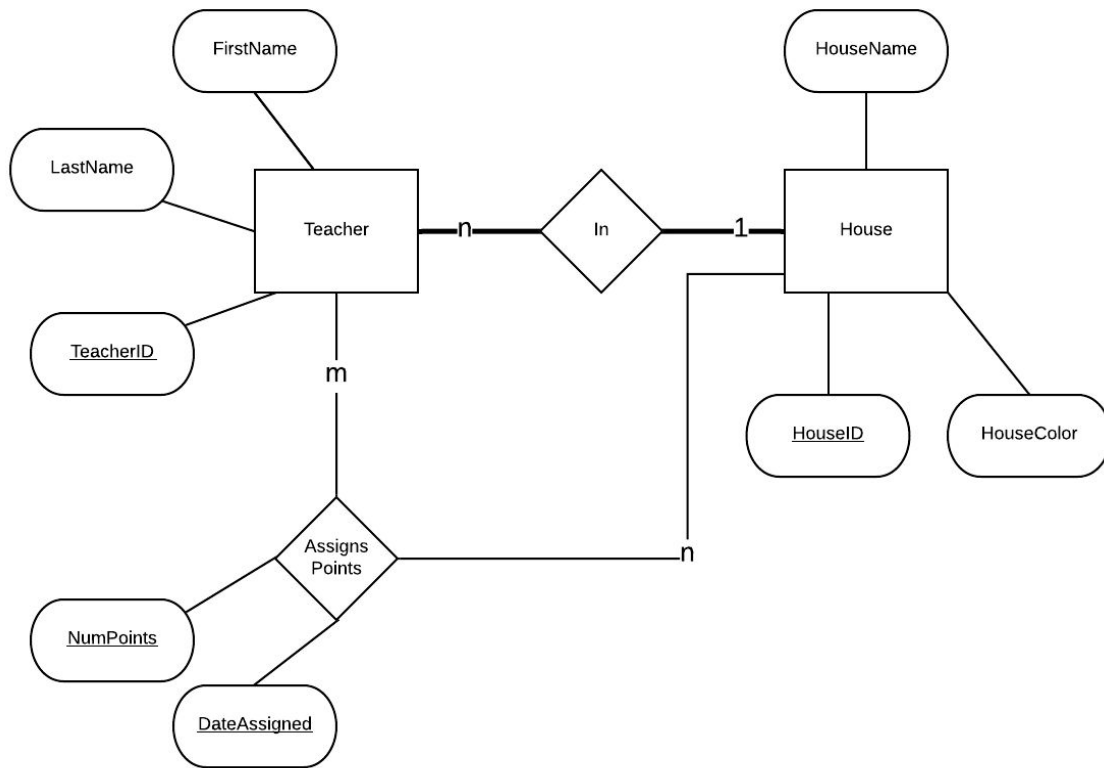
Sample Reports

Top 10 Teachers Assigning House Points.

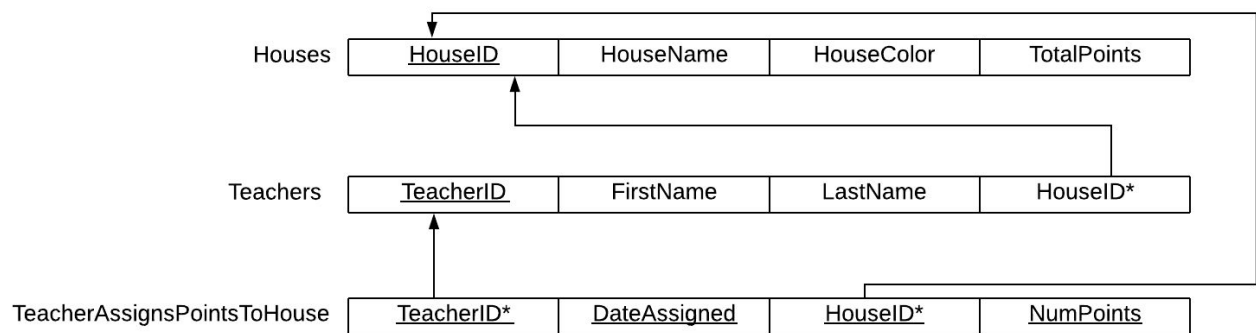
#	First Name	Last Name	Teacher House	receiver house	Points	Date
1	Bilal	Khan	Shenlong	shenlong	80	Aug 21, 2019
2	Jodi	Fetterolf	Shenlong	shelong	75	Sep, 7, 2019
3	Bilal	Khan	shenlong	wyvern	70	Jan, 14, 2020
4	Nomer	Adora	Hydra	naga	50	Oct, 9, 2019
5	Melinda	Berry	Hydra	Hydra	45	Oct, 31, 2019
6	Justin	Milligan	shenlong	shenlong	30	Sep, 2, 2019
7	David	Tan	Hydra	naga	20	Dec, 1, 2019
8	Erica	Neal	Naga	shenlong	15	Jan, 11, 2020
9	Erica	Neal	Naga	hydra	10	Nov, 1, 2019
10	Bilal	Khan	shenlong	shenlong	5	Nov, 5, 2019

Data Design

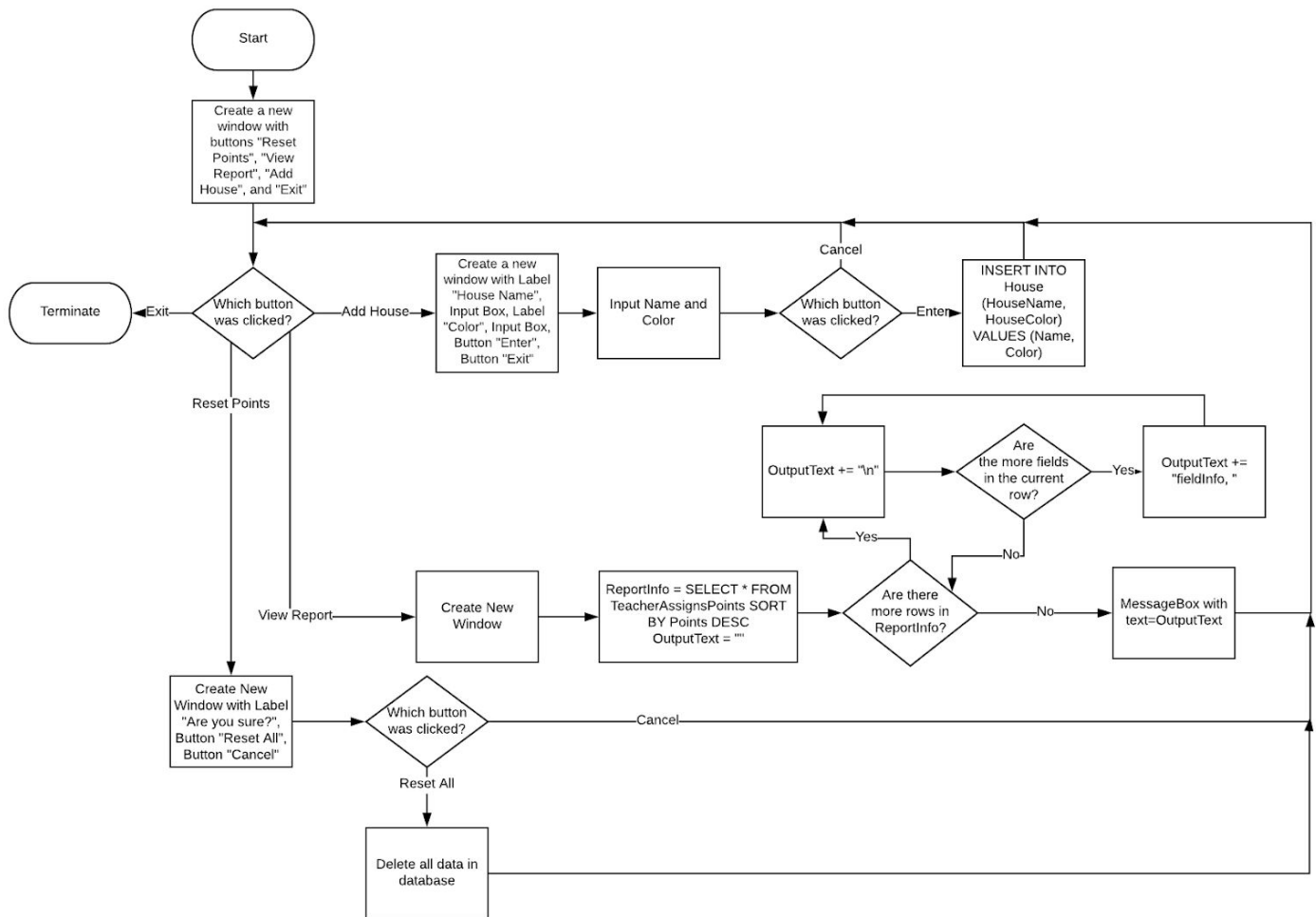
ERD



Relational Mapping



Algorithm Design



Test Plan

Actions to be Tested	Test Method
The client gets a report of top 10 teachers assigning the most points by clicking a button	Run the program and check if the report is visible for the client in a new window by clicking the button on the home page.
The program presents the reports in a table format	Click on the "get report" button on the home page and check if the report is presented as a table and is easy to understand.
The client can add a new house and set its house color	Enter a new house name and house color in the "add house" window and check if the new values are added in the database by running the program to return all the house in the "House" tables in the database.
The client can click a button to reset house points each year	Open the "reset points" button on the home page and click the button to reset all points for all houses. Then check if the total points are set to 0 for each house in the "TeacherAssignsPointsToHouse" table via the "Get Report" button.
The program shows a message to check if the client really wants to reset points	Click the reset all button, and check if the message box pops up. Make sure that the "Reset" button and "Cancel" button reset the points or cancel the reset respectively.
The program shows a message when there are data entry errors	Enter numerical values in the "add house" window for the new house name and house color then see if a message shows that there are errors in the entered values.
The client can exit/cancel the program when the client clicks an exit button	Click on the "exit" button on the home page, and "cancel" button in the resetting points and adding house windows to see if those windows close. The "cancel" button should close the window and return to the home page. The "exit" button should close the program without any messages and interference.