

11C.04.04

Hacked Hogwarts Student List



Frontend Design S2022
Hand in 04-03-22

Github: https://github.com/magn902m/hacked_hogwarts

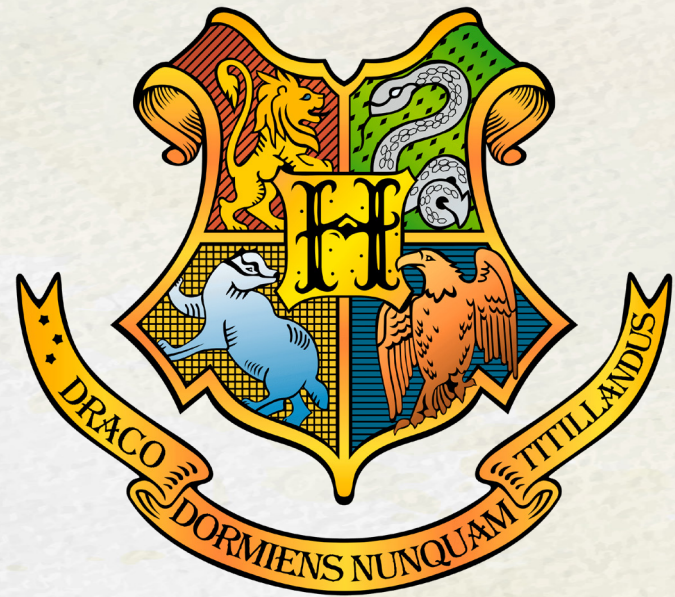
Web: https://designbymagnus.dk/kea/3_sem/theme11c_just_js/assignment/hacked_hogwarts

By Magnus Nielsen

INTRODUCTION


This assignment is about I have been hired by the Hogwarts School of Witchcraft and Wizardry, as a frontender, to help build a system so the administrator can handle the student lists.

But gradually, they wanted more functionality, so I got tired of the desired new things all the time. Therefore, I decided to hack the system.



VISUAL DESIGN

WELCOME TO
HOGWARTS STUDENT LIST



Students in each house

Status of students

Griffendor: 11
Hufflepuf: 14
Ravenclaw: 7
Slytherin: 16

Expelled students: 10
Active students: 4
Total number of students: 42

Search...

Filter by house

Griffendor

Slytherin

Ravenclaw

Hufflepuf

Filter by gender

Boys

Girls

Filter by status

Expelled

Non-expelled

Inquisitorial squad

Prefects

Filter by blood

Full blood


Half blood

Sort


Firstname

Lastname


House




Fullname: Harry James Potter
House: Griffendor
Expelled student




Fullname: Harry James Potter
House: Griffendor
Expelled student



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
THE END OF
HOGWARTS STUDENT LIST

Slytherin: 16

Total number of students: 42


Search

Filter by



Expelled student

Firstname: Harry
Middlename: James
Nickname: Pottery
Lastname: Potter
Blood status: halfblood/fullblood
Current status: active/expelled



House: Griffendor


Filter by

Expelled

Non-expelled


Filter by

Sort



Expelled student

Firstname: Harry
Middlename: James
Nickname: Pottery
Lastname: Potter
Blood status: halfblood/fullblood
Current status: active/expelled



House: Griffendor

Fullname: Harry James Potter

Before i started build the new systemt, i had to make a design. I used XD and made a prototype.


This is for the mobile version.

VISUAL DESIGN

This is the desktop version 1 and 2. the lists design is build, so you can see the students, navn, house and expelled them.

There is diffent filter and sort options, and last a counter of all students ect.

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Filter by house

Griffindor Slytherin

Ravenclaw Hufflepuf

Filter by gender

Boys Girls

Filter by status

Expelled Non-expelled

Inspirational squad Protects

Filter by blood



















Full blood Half blood

Sort


Firstname Lastname

House

V1

 Fullname: Harry James Potter House: Griffindor Expelled student	 Fullname: Harry James Potter House: Griffindor Expelled student	 Fullname: Harry James Potter House: Griffindor Expelled student
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Ravenclaw Hufflepuf

Filter by gender

Boys Girls

Filter by status

Expelled Non-expelled

Inspirational squad Protects

Filter by blood



















Full blood Half blood

Sort


Firstname Lastname

House

V2

 Fullname: Harry James Potter House: Griffindor Expelled student	 Fullname: Harry James Potter House: Griffindor Expelled student	 Fullname: Harry James Potter House: Griffindor Expelled student
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Inspirational squad Protects

Filter by blood



















Full blood Half blood

Sort

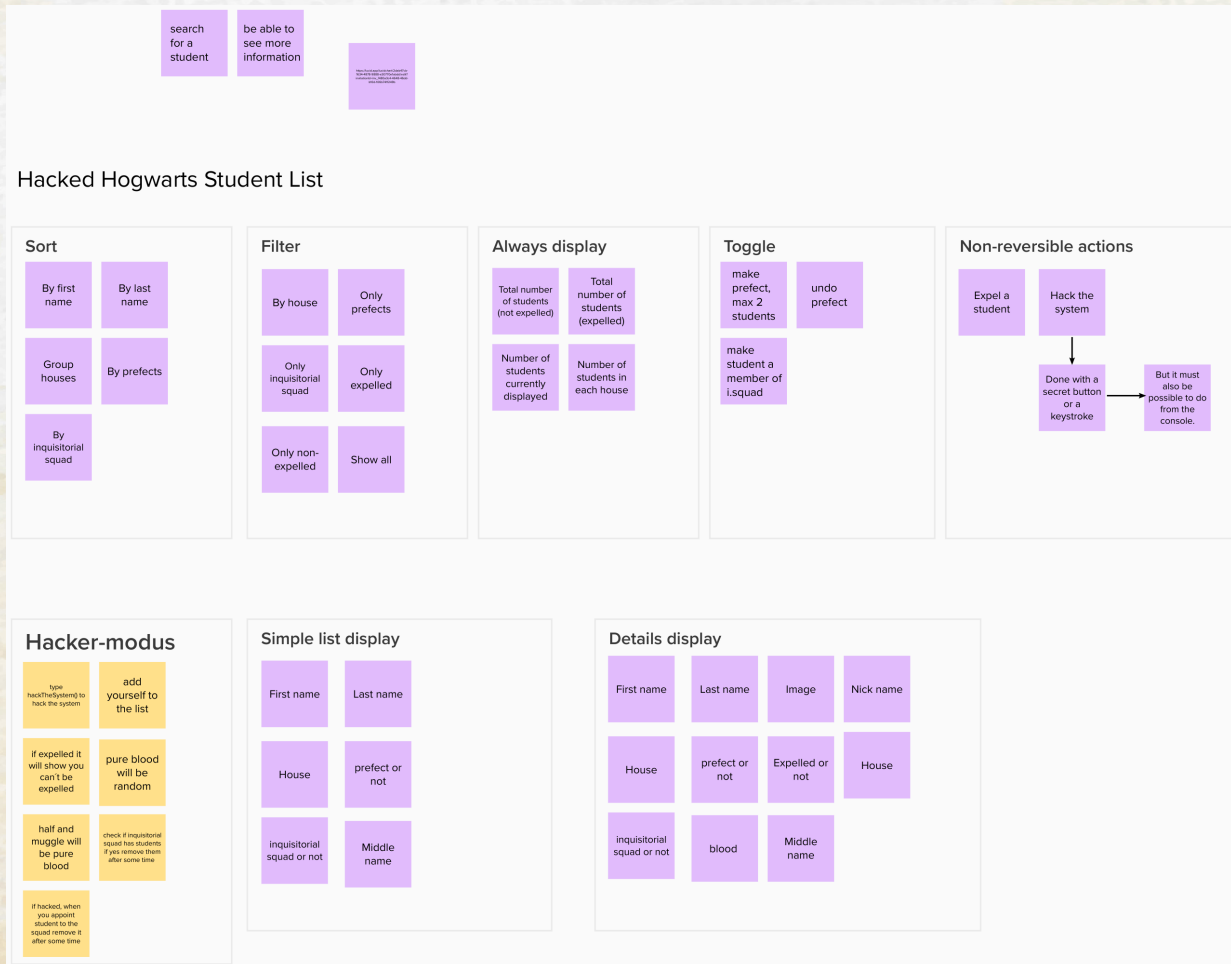
Firstname Lastname

House

V1

 Fullname: Harry James Potter House: Griffindor Expelled student	 Fullname: Harry James Potter House: Griffindor Expelled student	 Fullname: Harry James Potter House: Griffindor Expelled student
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CODE DESIGN



After the visual design, i started designing my code. hogwarts had a lot of wishes, therefore i took some “post-it”, and maded a plan, for the components.

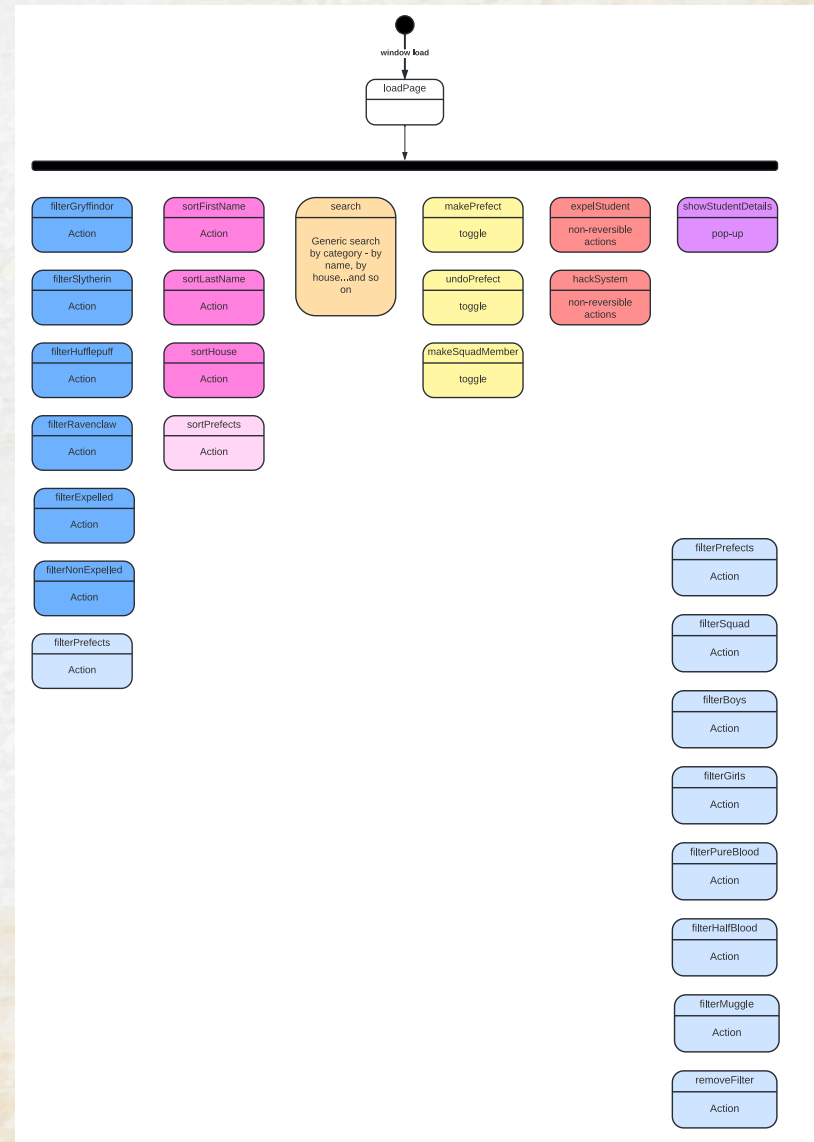
With the plan, i tried to make a activity diagram see the next page

USER STORIES / FEATURES

I made the user stories with some of the other students from the class.

The digram show what function we guess there is need to build the system.

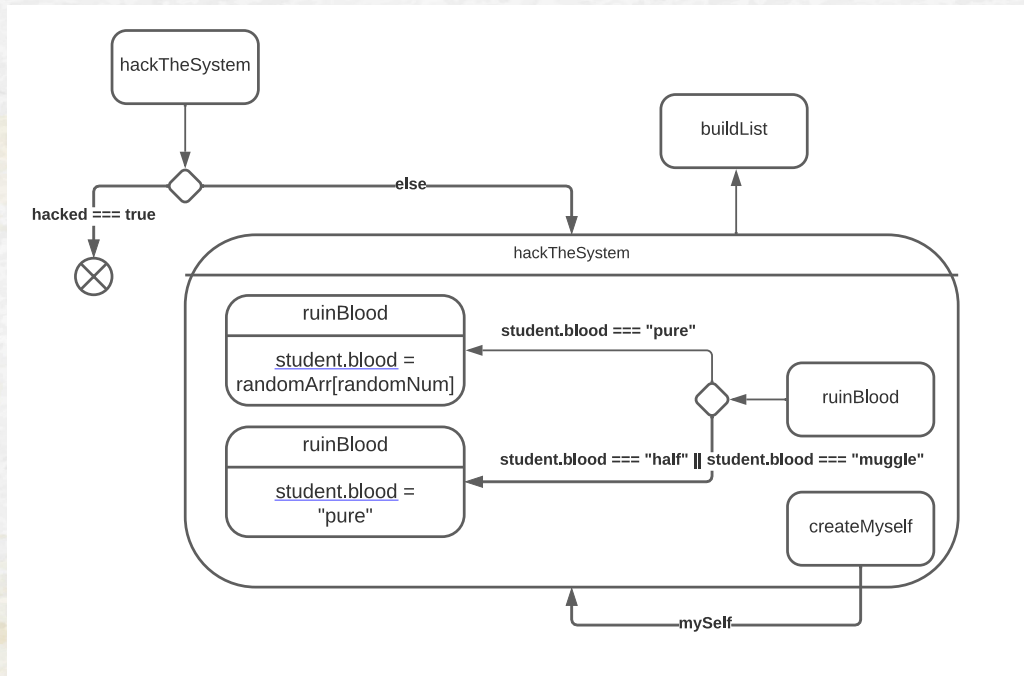
Then i made a can/can't list, so i had knowledge about what i could do, and what i couldn't.



Can/can't do list

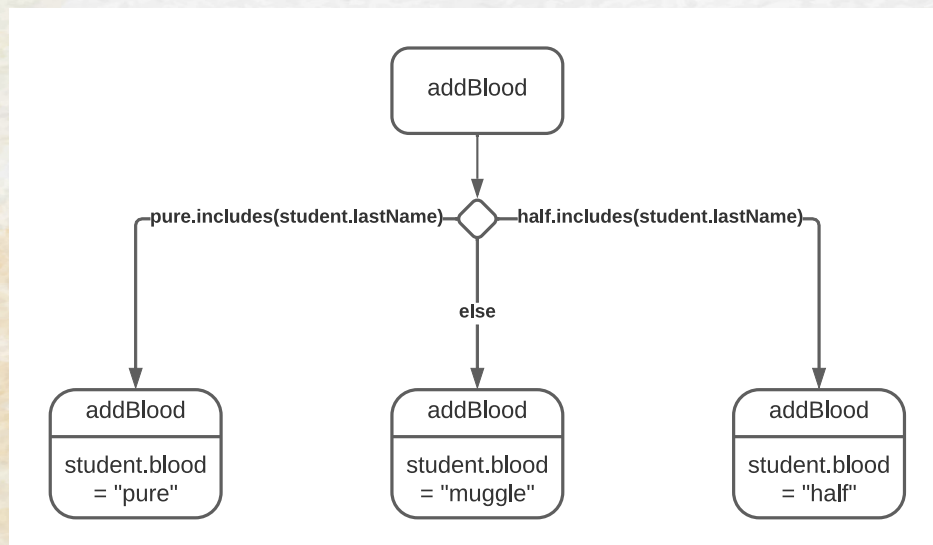
Sort	
Sort by firstname and lastname	✓
Sort by house	✓
Sort by prefects and inq. Squad	✓
Filter	
Filter by house	✓
Show all	✓
Only inq. Squad, expelled and prefects	+
Only non-expelled	✓
Always display	
Total number og students (not expelled)	~
Total number og students (expelled)	~
Number of currently displayed	+
Number of students in each house	+
Toggle	
Make prefect, max 2 students per house	~
Undo prefect	✓
Make a student inq. Squad member	~
Non-reversible actions	
Expel a student	+?
Hack the system	~
Active the hack with a keystroke	+
Active the hack form console	✓
Simple list display	
Display firstname, lastname, middlename.	✓
Display house	✓
Display prefect and inq. Squad or not	~
Details display	
Firstname, lastname, middlename, nickname, image and house	✓
Prefect or not	~
Inq. squad or not	~
Blood	+
Hacker-modus	
Type hackTheSystem to hack	✓
Add yourself to the list	~
Show you can't be expelled, if tried	?
Pure blood will be random	~
Half and muggle will be pure blood	~
If inq. Squad is true, then remove after some time	~

DIAGRAM OF THE ALGORITHMS



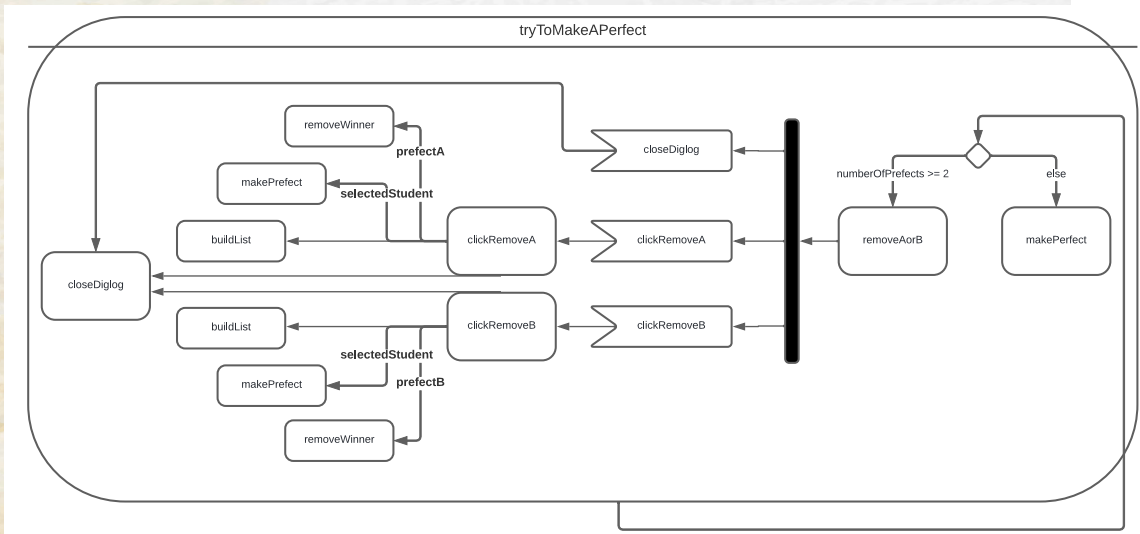
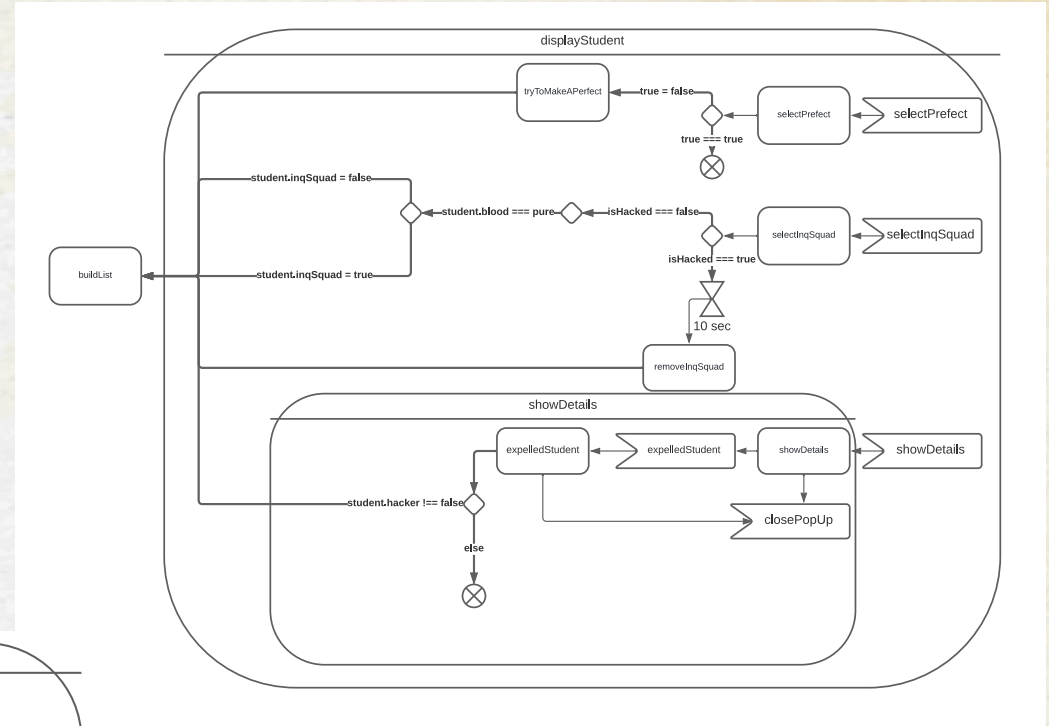
This is diagrams of the algorithms. i did them after my code was almost finish.

More on next page



CODE DESIGN

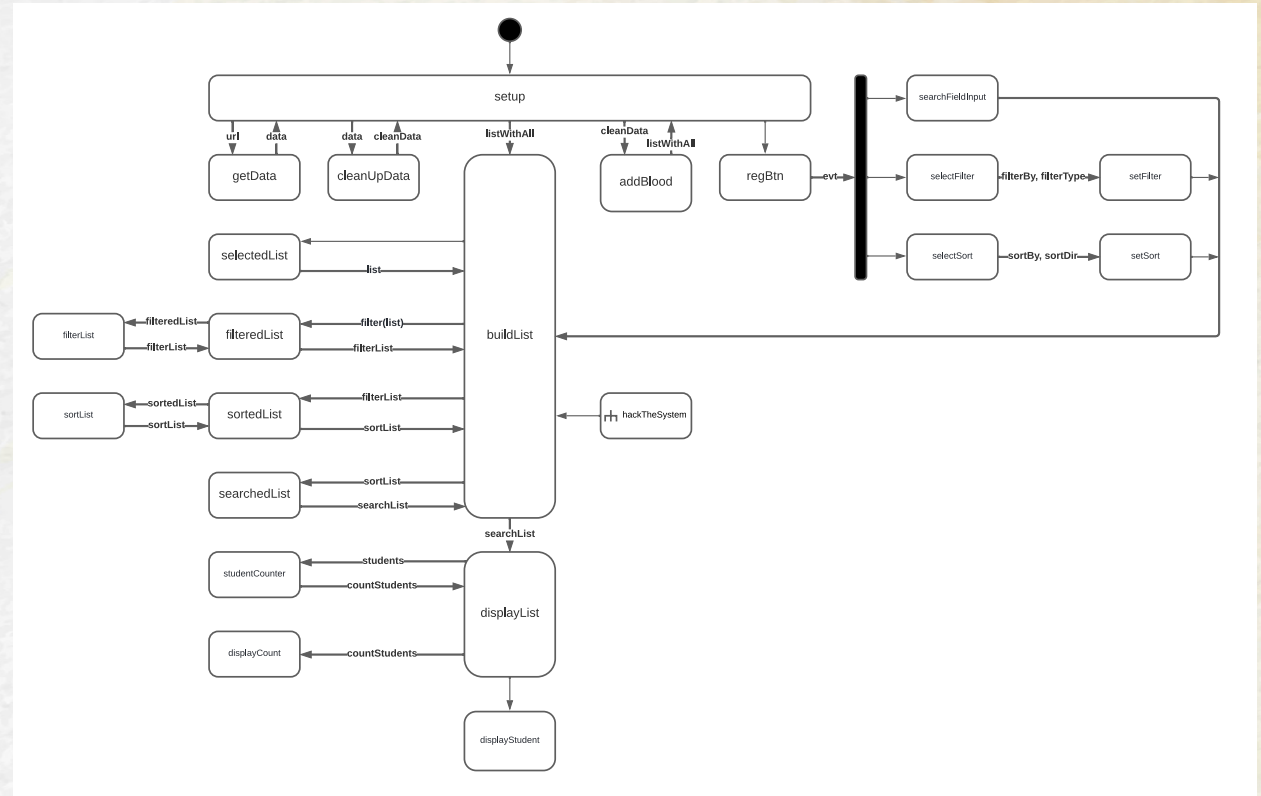
I didn't use them in the project, but next time, i would like to make the diagrams before start codning. it's a good way to see what you need to do



FINALE DIAGRAM

This is general diagram for the system, all function there is marked with a fork, is show some where else in the project.

What we see on the diagram, is all the function values and what they retrun ect.



STUDENT OBJECT / HACKING

The whole system is built around the student object, and its property.

It's the way we can determine and change the value.

To hack the system you can type `hackTheSystem()` or just type "hack" on your keyboard, but you must not type wrong!

Good luck!

```
56 // ----- Control if password is true -----
57 function getHackPassword(event) {
58     const password = "hack";
59     const key = event.key;
60     const currentIndex = keySaved.length;
61     const keyToMatch = password.charAt(currentIndex);
62
63     if (key === keyToMatch) {
64         keySaved += key;
65     } else {
66         keySaved = "";
67     }
68     if (keySaved === password) {
69         hackTheSystem();
70     }
71 }
```

```
83 // Student object
84 const Student = {
85     firstName: "",
86     lastName: "",
87     middleName: "",
88     nickName: "",
89     gender: "",
90     imgSrc: "",
91     house: "",
92     blood: "",
93     prefect: false,
94     expelled: false,
95     inqSquad: false,
96     hacker: null,
97 };
```


SOURCE

This is a page is full with all the external source i haft used in the assignment.

Inparation: <https://www.wizardingworld.com/>

Fonts:

Harry P: <https://www.picturethemagic.com/harry-potter-font/>

IM Fell English: <https://fonts.google.com/specimen/IM+Fell+English#standard-styles>

4 Privet Drive and DearMrPotter: <https://www.robinspringett.com/resources>

Pictures:

Prefect badge: https://harrypotter.fandom.com/wiki/Become_a_Prefect

Paper 1: https://www.freepik.com/free-vector/watercolour-background-with-leaves_15206849.htm#query=old%20paper&position=0&from_view=keyword

Paper 2: <https://www.christinaabeyparris.com/en/close-up-kraft-brown-paper-texture-and-background-2/>

Hogwarts and crests logos: <https://dlpng.com/png/6365074>

Inq. squad badge: https://harrypotter.fandom.com/wiki/Dolores_Umbridge