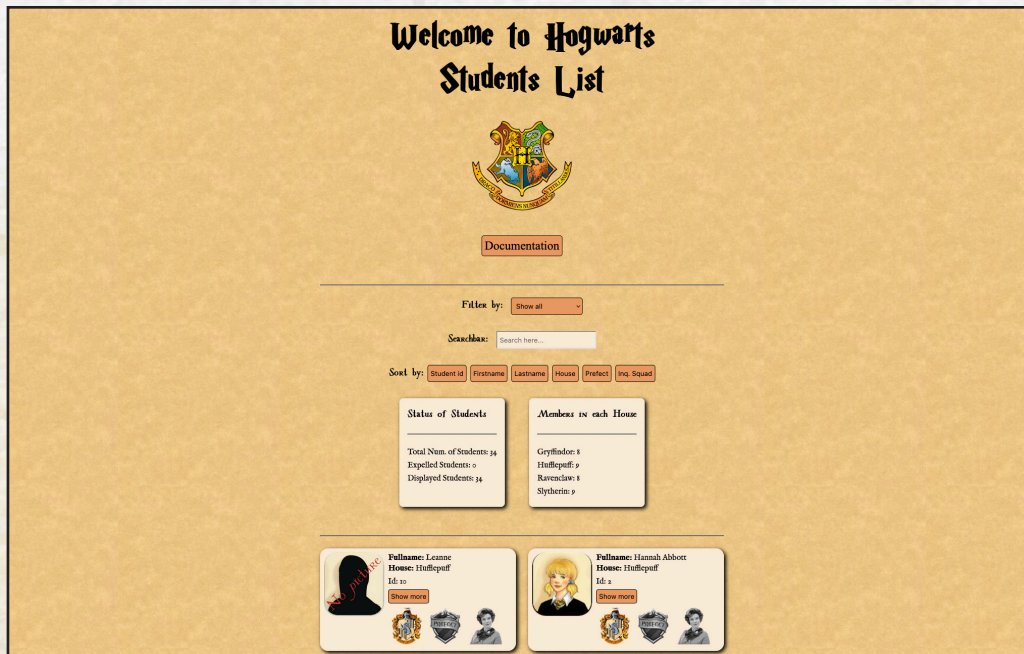


# 11C.04.04

## Hacked Hogwarts Student List

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Frontend Design S2022  
Hand in 04-03-22

Github:

[https://github.com/magn902m/hacked\\_hogwarts](https://github.com/magn902m/hacked_hogwarts)

Web:

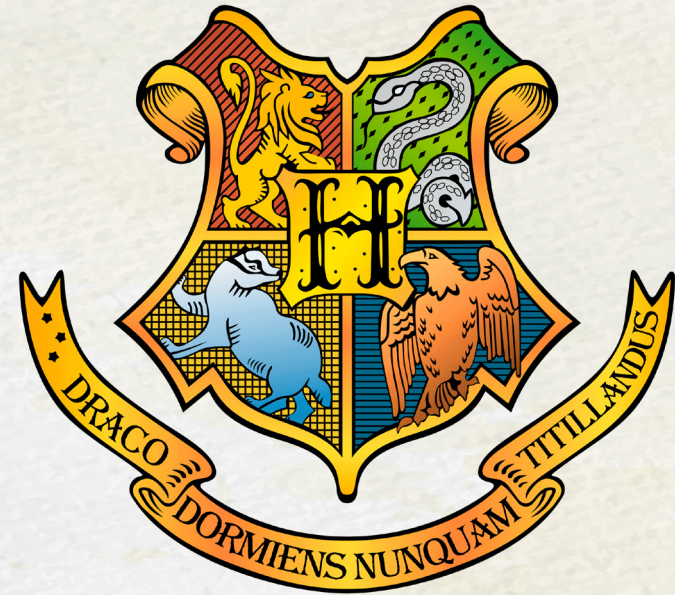
[https://designbymagnus.dk/kea/3\\_sem/themerrc\\_just\\_js/assigments/hacked\\_hogwarts/](https://designbymagnus.dk/kea/3_sem/themerrc_just_js/assigments/hacked_hogwarts/)

*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**



**VI**

---

<b>Students in each house</b>	<b>Status of students</b>
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

---

**VI**

	Fullname: Harry James Potter House: Griffendor Expelled student
	Fullname: Harry James Potter House: Griffendor Expelled student
	Fullname: Harry James Potter House: Griffendor Expelled student
	Fullname: Harry James Potter House: Griffendor Expelled student


↑

---

<b>Students in each house</b>	<b>Status of students</b>
Griffendor: 11 Hufflepuf: 14 Ravenclaw: 7 Slytherin: 16	Expelled students: 10 Active students: 4 Total number of students: 42

Search...

---



**THE END OF HOGWARTS STUDENT LIST**

Slytherin: 16 Total number of students: 42

Search

**VI**

Filter by

Expelled student

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

Filter by

House: Griffendor

Expelled Non-expelled

Filter by

Sort

Expelled

**EXPULSED**

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

House: Griffendor

---

1 Fullname: Harry James Potter

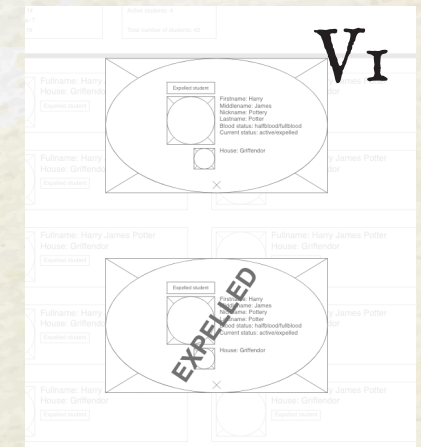
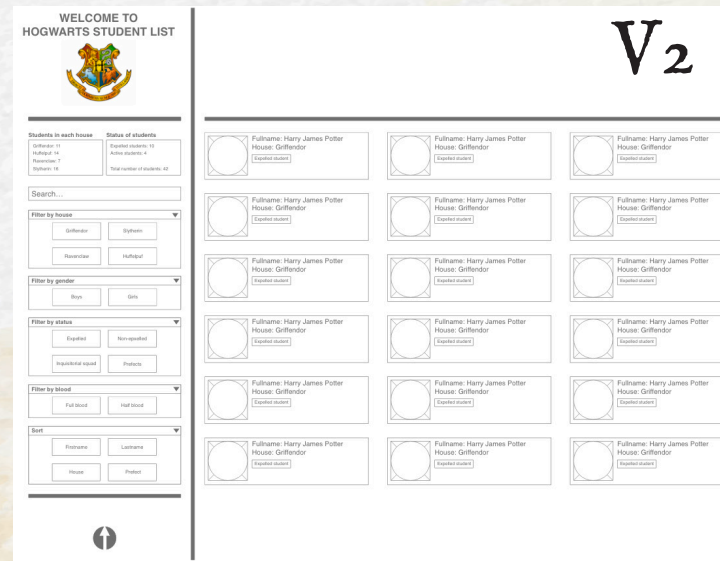
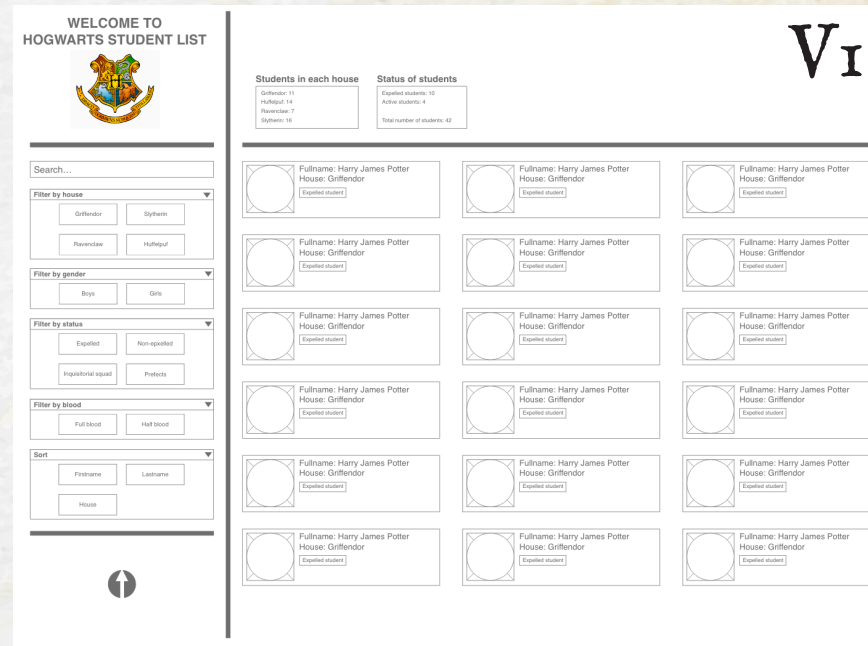
Before i started build the new system, i had to make a design. I used XD and made a prototype.

This is for the mobile version.

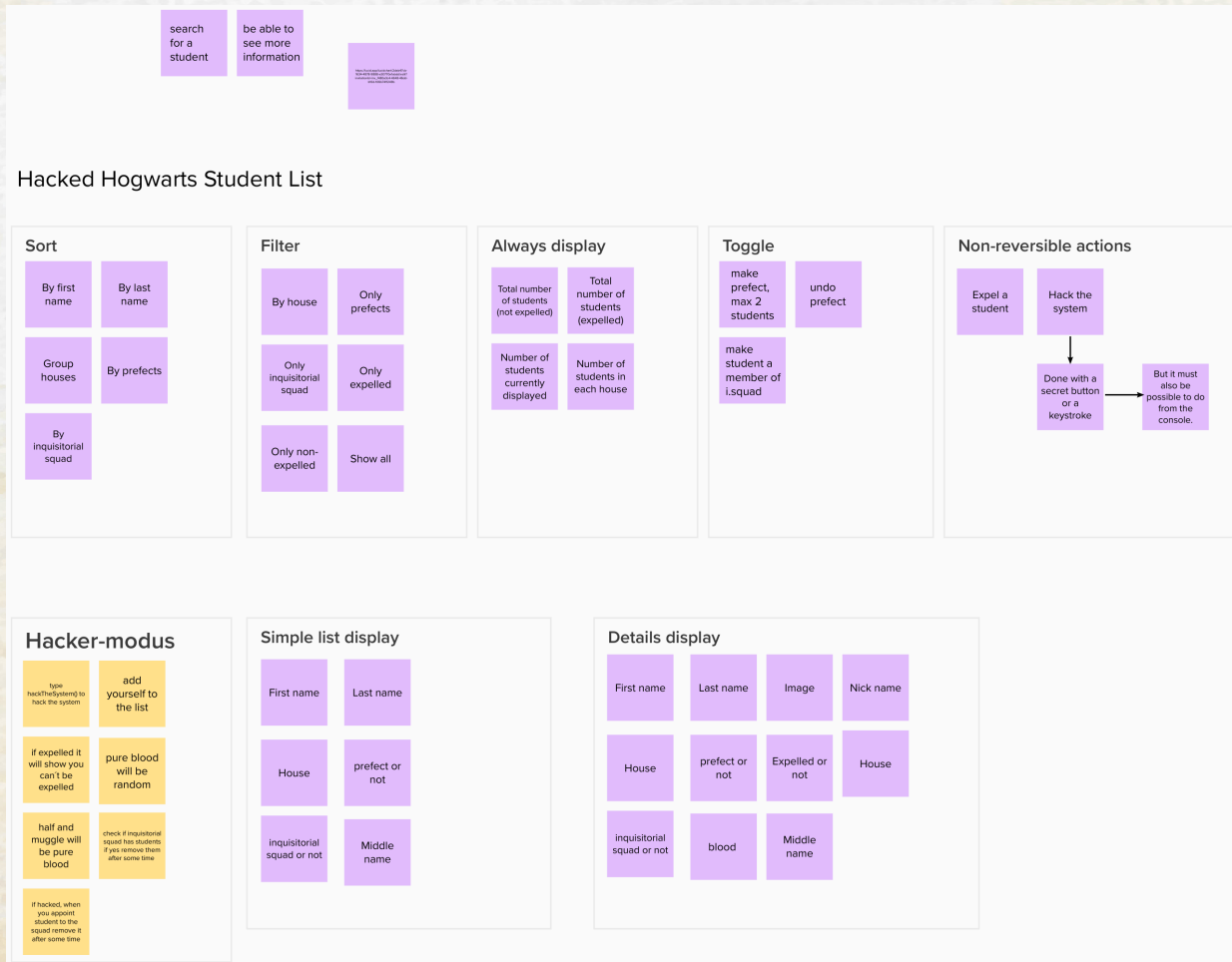
# VISUAL DESIGN

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

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



# 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.

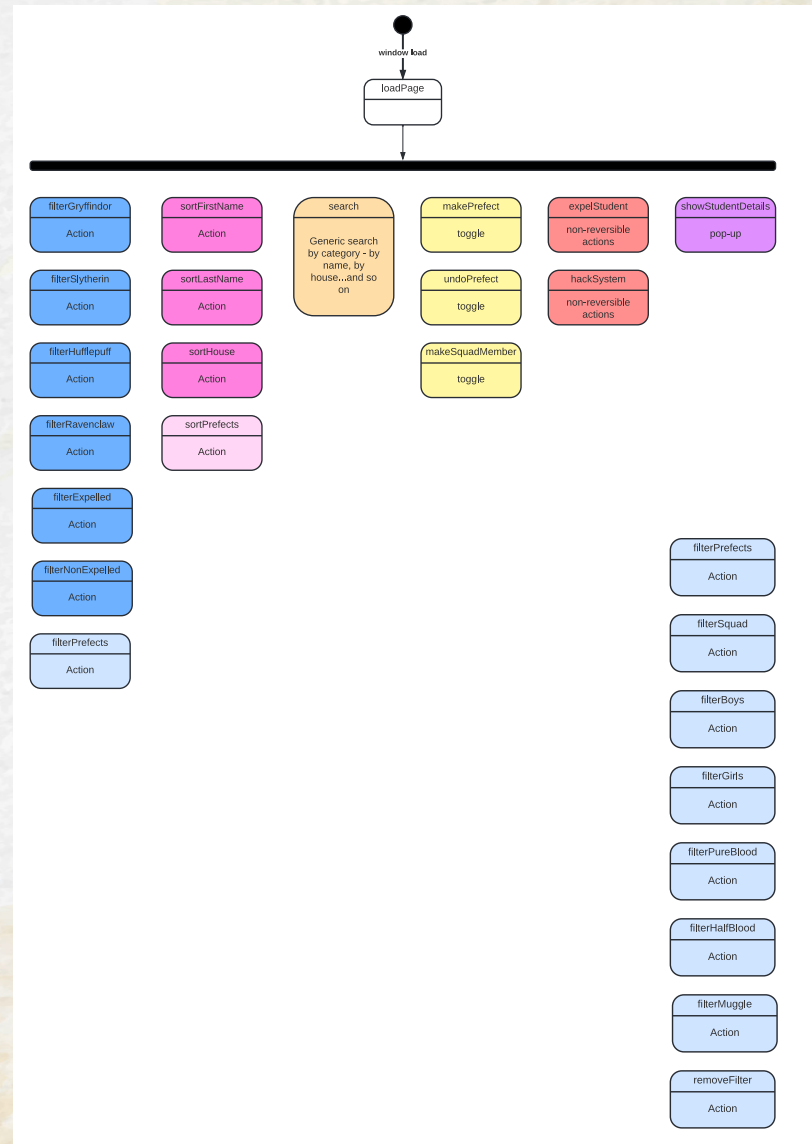
With the plan, i tried to make a activity diagram see the next page

# USER STORIES / FEATURES

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

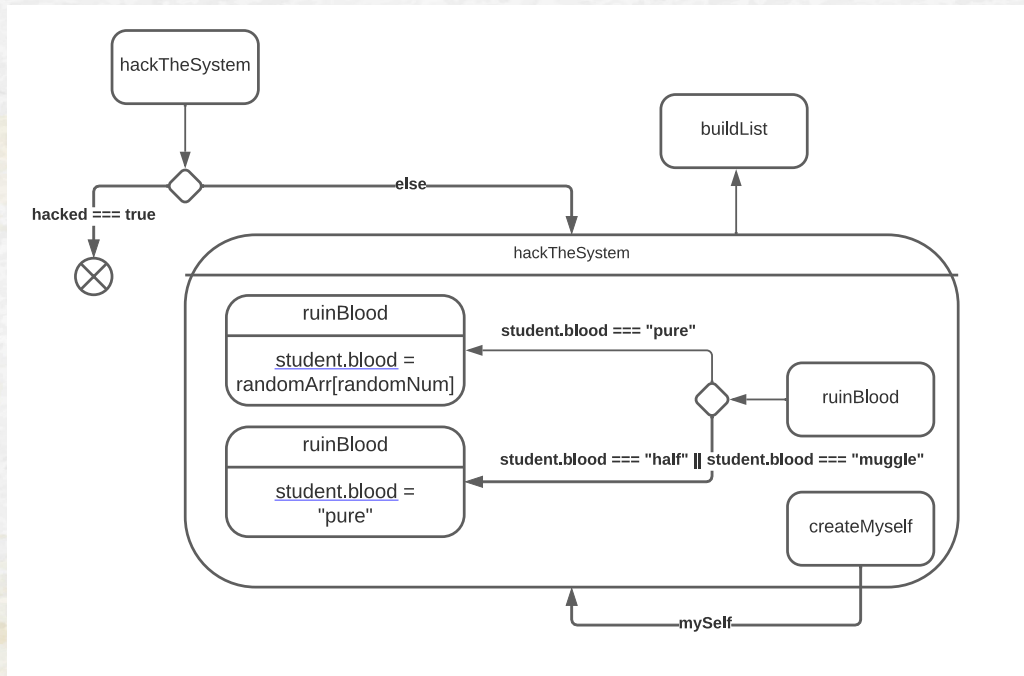
The digram show what function we guess there is need to build the system.

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



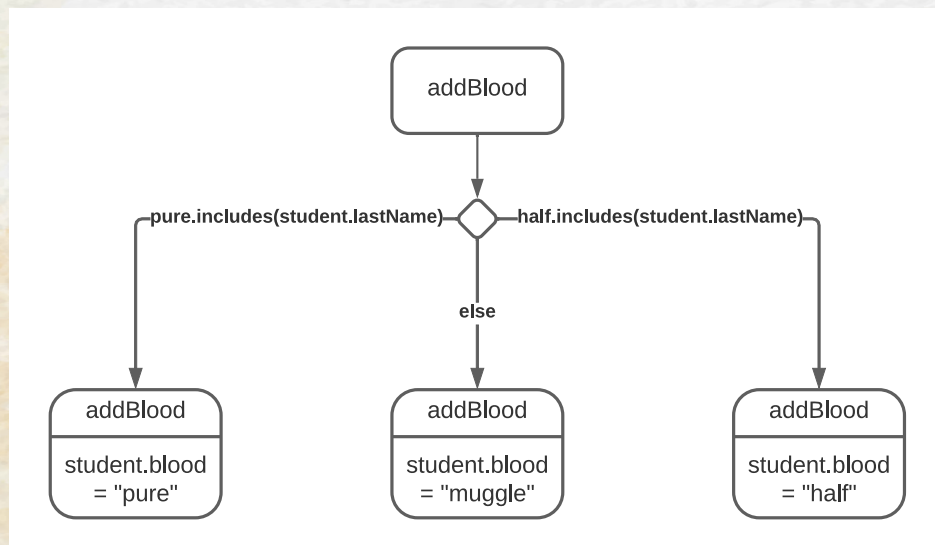
Can/can't do list	
Sort	
Sort by firstname and lastname	✓
Sort by house	✓
Sort by prefects and inq. Squad	✓
Filter	
Filter by house	✓
Show all	✓
Only inq. Squad, expelled and prefects	+
Only non-expelled	✓
Always display	
Total number og students (not expelled)	~
Total number og students (expelled)	~
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



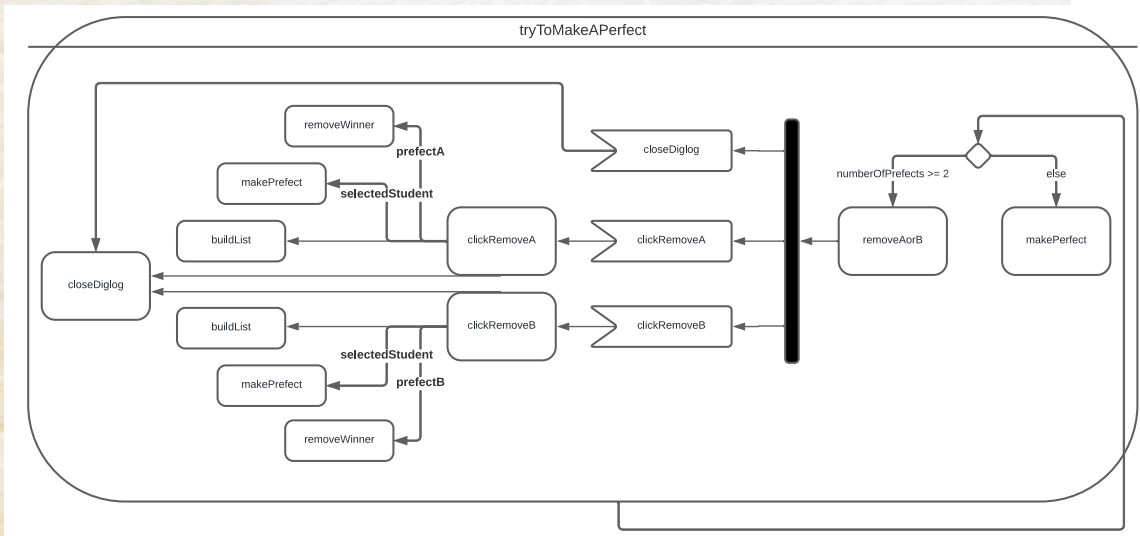
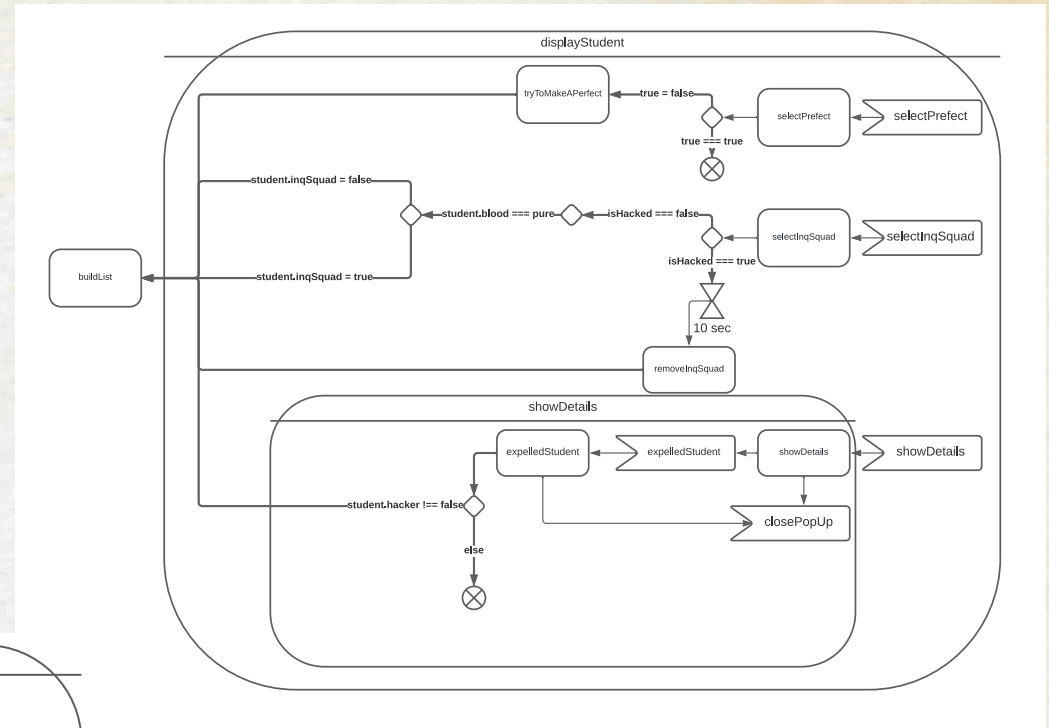
This is diagrams of the algorithms. i did them after my code was almost finish.

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 coding. it's a good way to see what you need to do

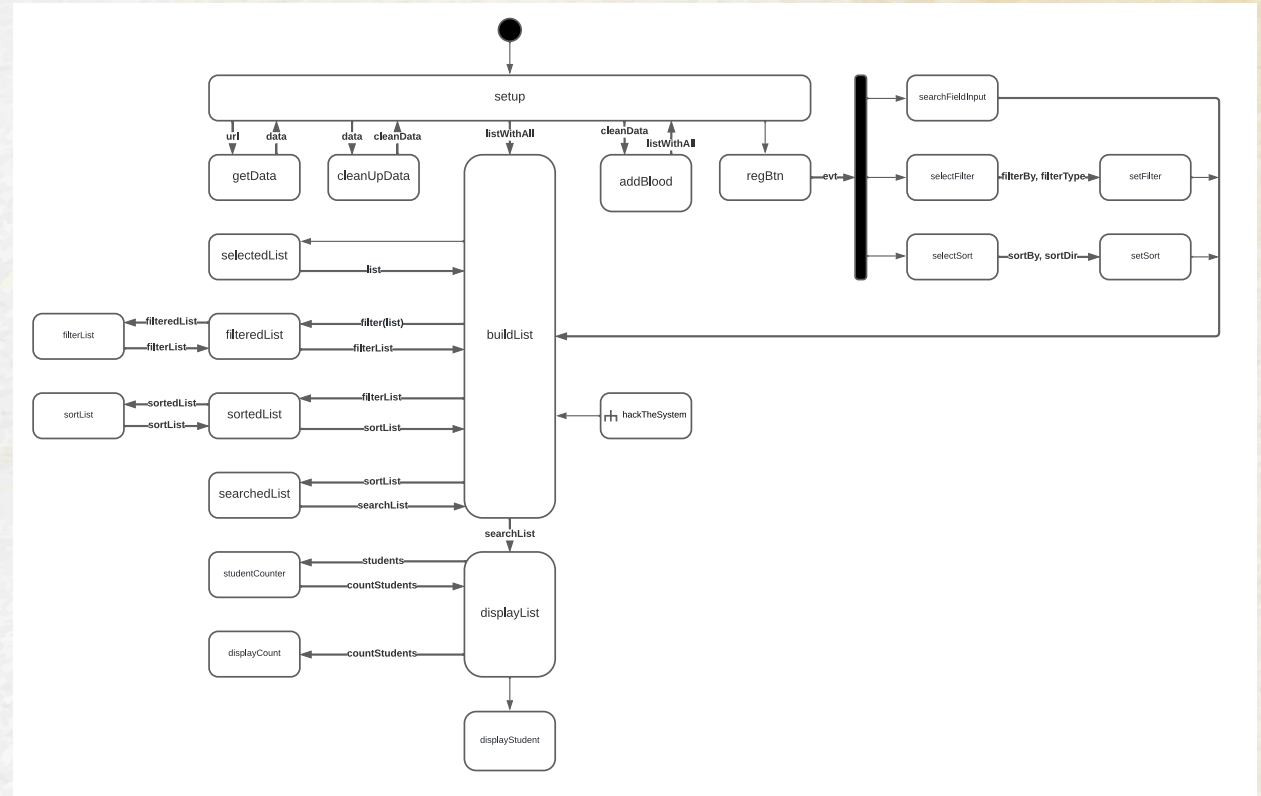




# FINALE DIAGRAM

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](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](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](https://harrypotter.fandom.com/wiki/Dolores_Umbridge)