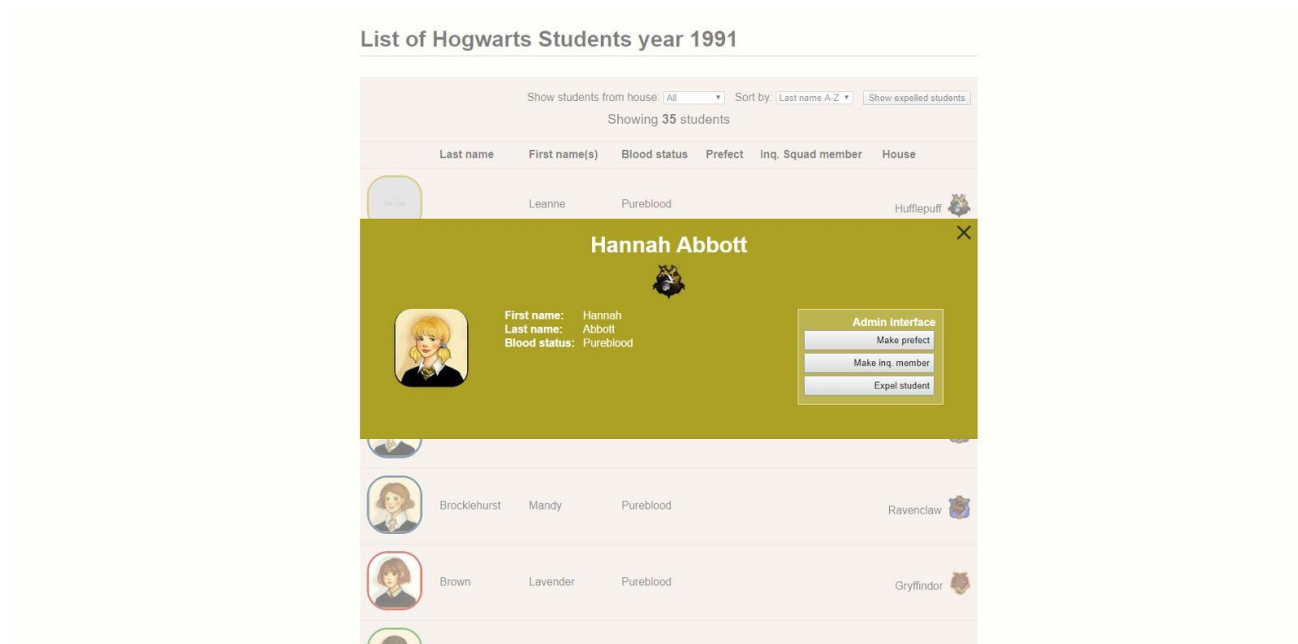


11C.04.04 - Hacked Hogwarts Student List

Camilla Gejl Olsen



Link to final solution

https://camillagejl.com/kea/3-semester/theme11/11c.04.04_hacked_hogwarts_student_listfunctions/index.html

Link to Github repository

https://github.com/cami32d9/11c.04.04_hacked_hogwarts_student_listfunctions

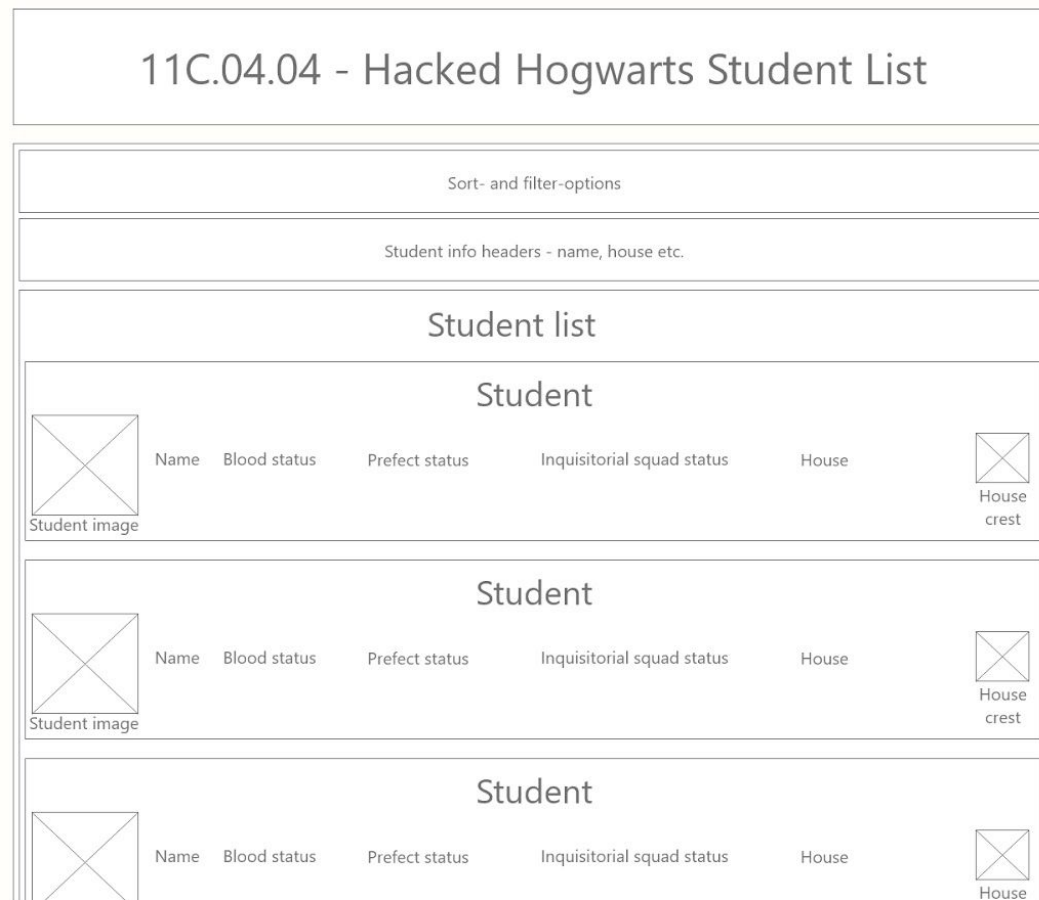
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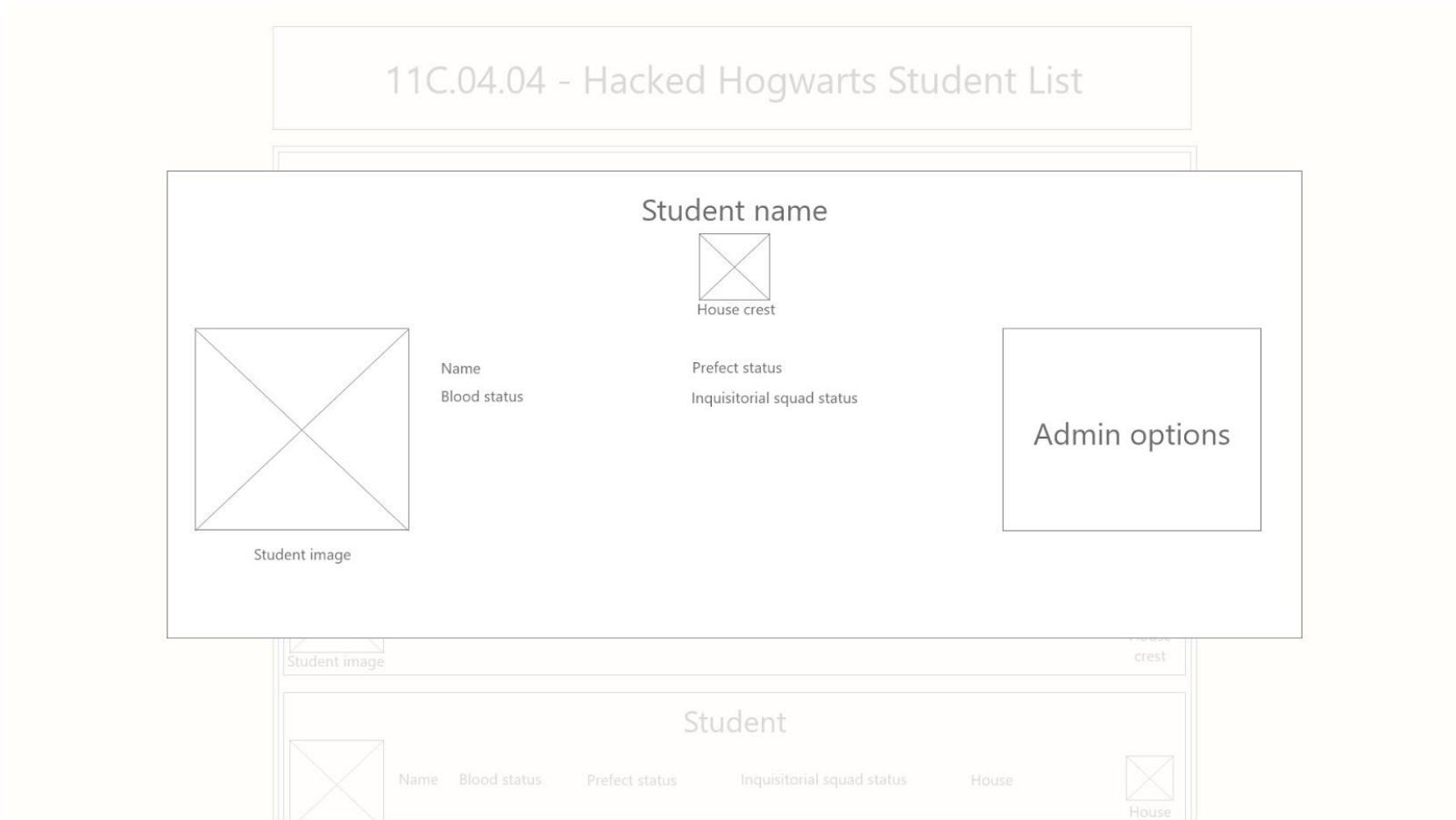
Wireframe for the visual design

Desktop

Student list

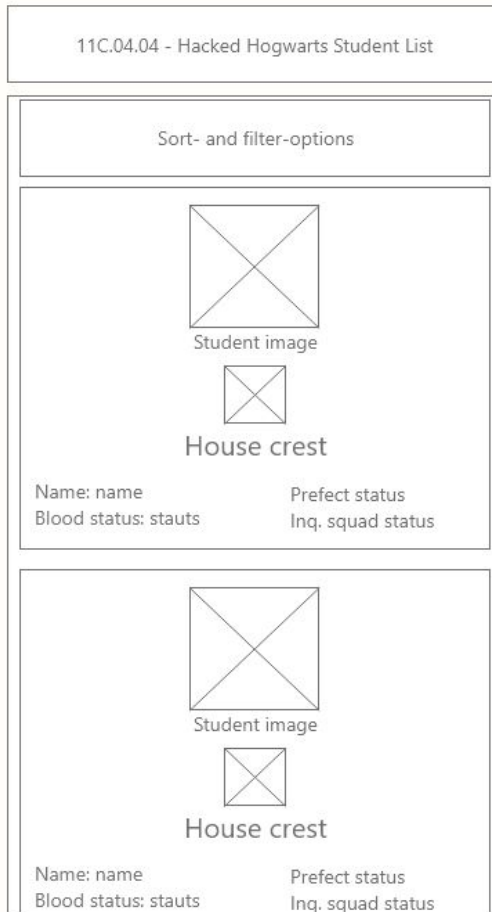


Student popup

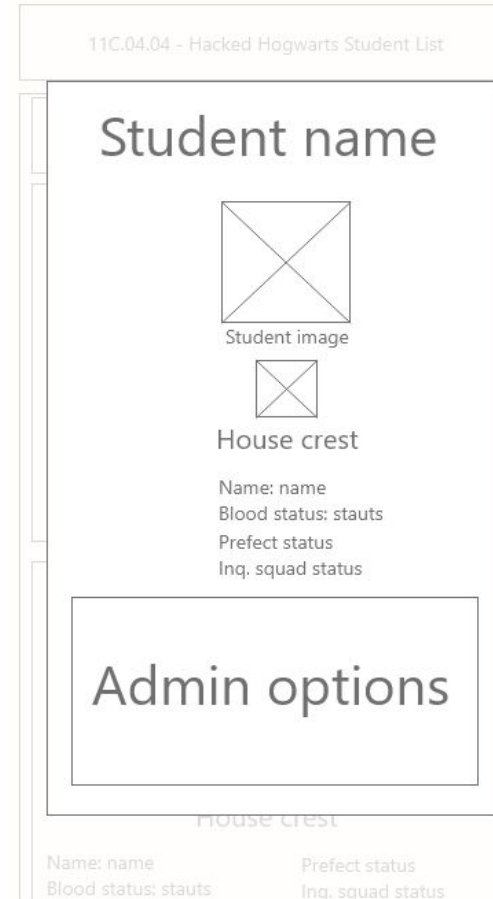


Mobile

Student list

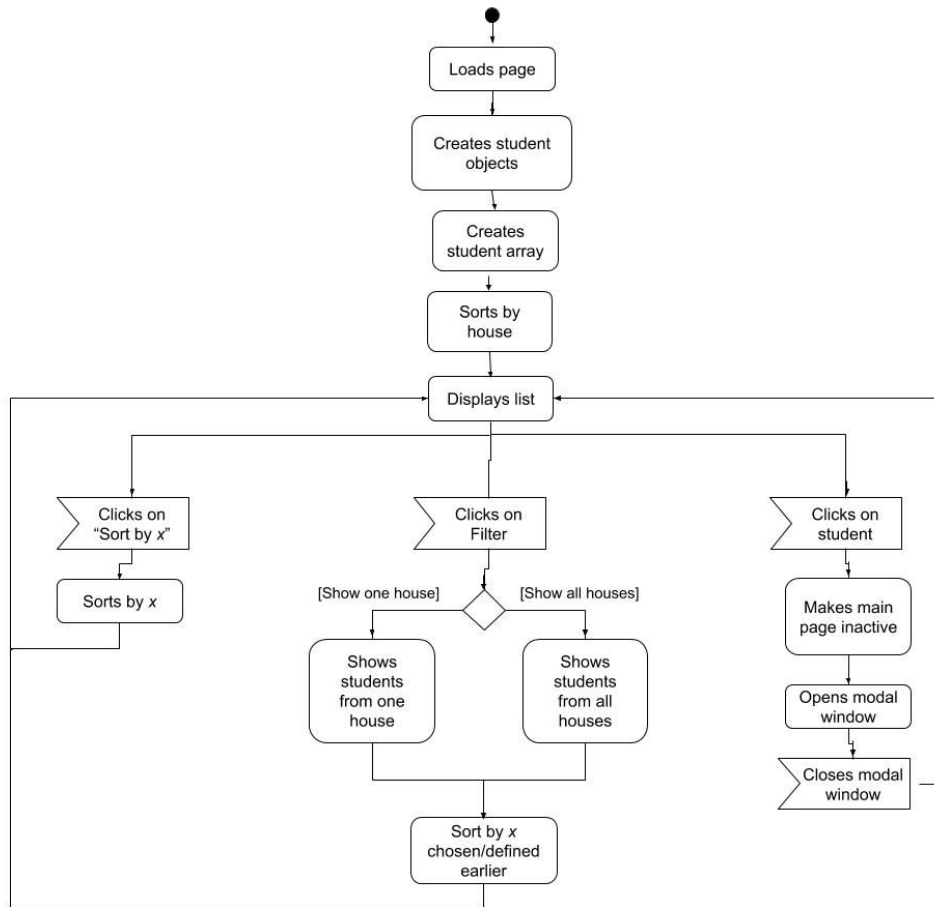


Student popup



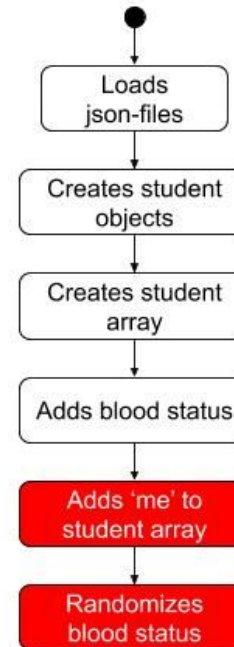
Activity diagrams

Displaying the list | Displaying popups | Filtering | Sorting

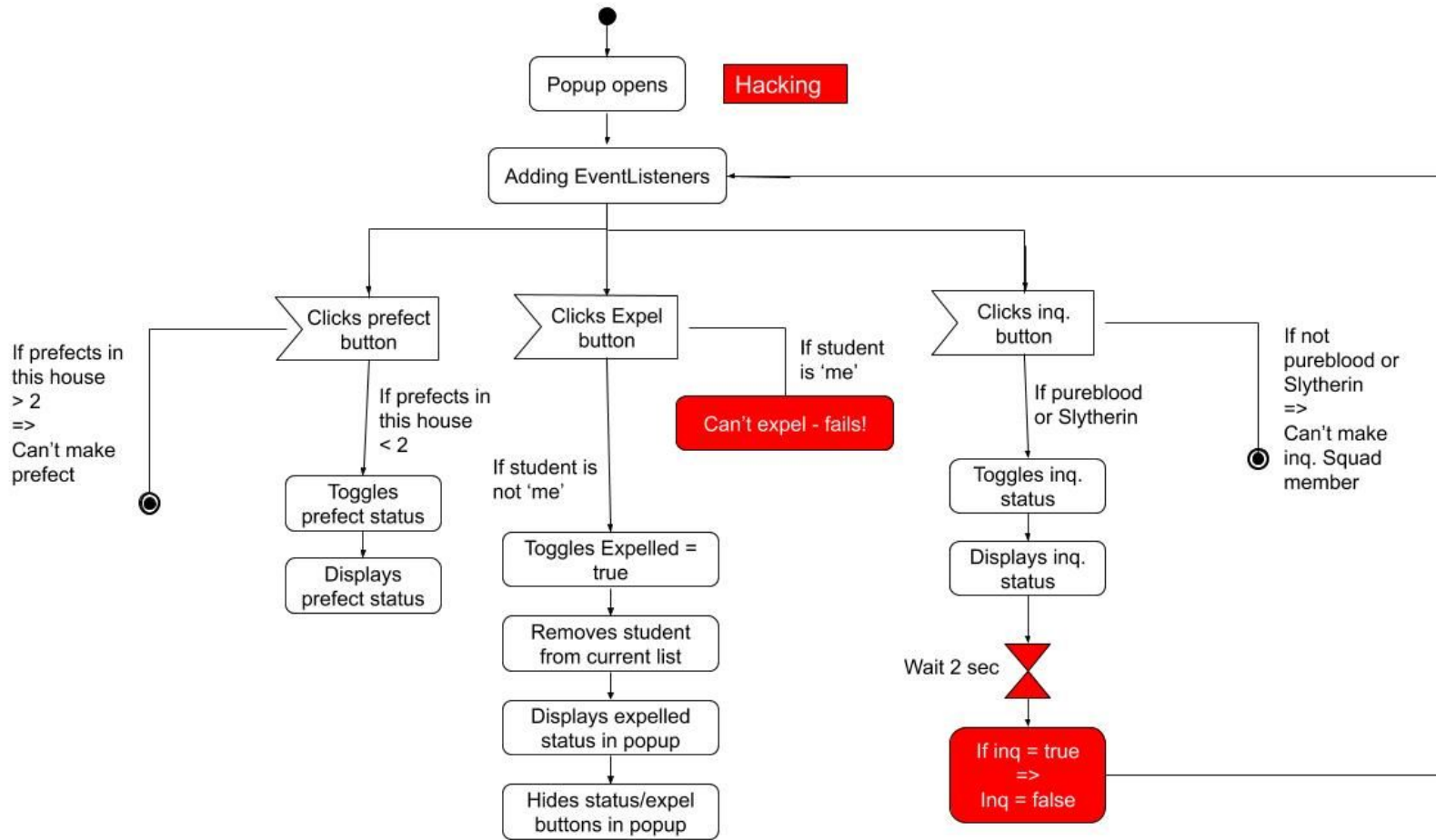


Blood status & adding me

Hacking



Making prefects | Expelling | Making Inquisitorial Squad members



List of parts of the application

Original student list

Fetch json - student list

Fetch json - blood statuses

Create student object

Add blood statuses to student objects

Create student list (array)

Show student list

Filter student list (house and expelled)

Sort student list

Open popup

Add/remove prefect status

Add/remove inquisitorial squad status

Expel student

Hacking

setTimeout for inquisitorial status to be removed

Add 'me' to student array

Prevent user from expelling 'me'

Randomize blood status

Can/can't do list

	Can	Can't
Fetch json - student list	Can do	
Fetch json - blood statuses	I think I can - depending on whether those two jsons can work at the same time	
Create student object	I think I can	
Add blood statuses to student objects	Can do	
Create student list (array)	Can do	
Show student list	Can do	
Filter student list (house and expelled)		Will need more working on the filtering, also depending on how expelling will work
Sort student list	Can do	
Open popup	Can do	
Add/remove prefect status	Can add to object	Don't know how to update display to

		show new status
Add/remove inquisitorial squad status	Can add to object	Don't know how to update display to show new status
Expel student		Don't know how, but have an idea.
setTimeout for inquisitorial status to be removed	Can set timeout	Might have problems with displaying and stopping the timeout
Add 'me' to student array	Can do	
Prevent user from expelling 'me'	Can do	
Randomize blood status	Almost sure I can do	

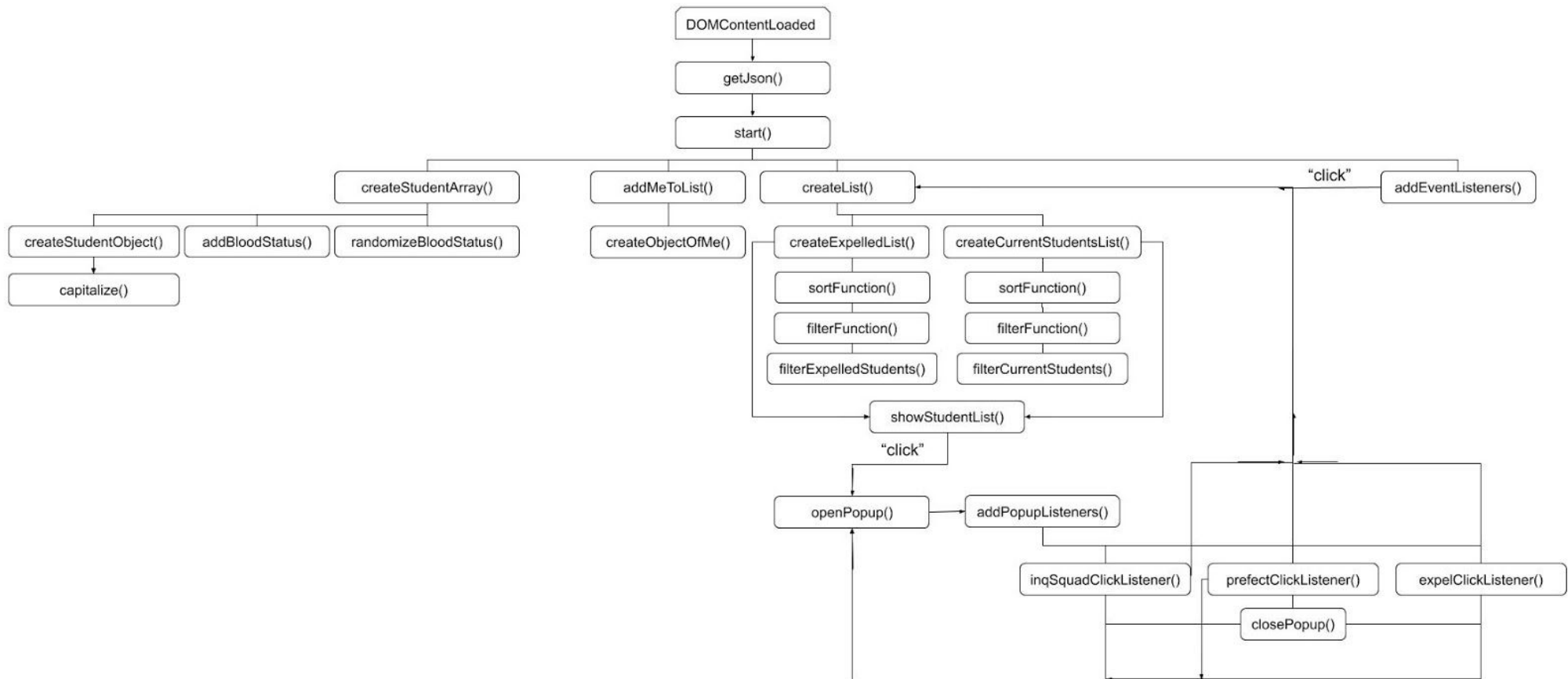
Pseudocode for major parts

Filtering & sorting	<pre>// Filter/sort HTML: <select>Filter</select> <select>Sort</select> JS: select (Filter or Sort) > "click" => filter(selection) sort(selection) Create new student array Show student list // Code will filter and sort every time one is selected</pre>
Expelling	<pre>// Expelling HTML: <button>Expel</button> JS: Expel > "click" => Student isExpelled = true Update expelled status Run filter functions (to filter expelled from current) Show student list</pre>
Add blood status	<pre>// Add blood status (On each student) JS: if (blood-list-part includes(student's <u>lastname</u>) => student.blood = blood-list-part</pre>

<p>Randomize blood status</p>	<pre>// Randomize blood status (On each student) JS: if (student.blood = "Pureblood") => student.blood = "Muggleblood" if (student.blood = "Muggleblood" "Half-blood" => math.random() for "Pureblood", "Muggleblood" and "Half-blood"</pre>
<p>Inquisitorial squad status + timer</p>	<pre>// Inquisitorial squad + timer HTML: <button>Change inq. squad status</button> JS: Inq squad > "click" => if (status = not-member) => status = member Change button text Change status display Set timer => status = not-member Change button text Change status display if (status = member) => status = not-member Change button text Change status display // When the timer is added, // in case membership is removed before timer trigger Remove/stop timer</pre>

Complete call graph for the finished code

11C.04.04 - Hacked Hogwarts Student List



https://docs.google.com/drawings/d/1xUKP8WokIAJLq0sM1gVF4Bf7ea0sOUIAipHp_GH0Lc/edit?usp=sharing

List of Student-object properties

firstName
lastName
nickName
middleName
gender
house
isPrefect
isInqSquadMember
isExpelled
bloodStatus

Example:

firstName: "Camilla",
lastName: "Olsen",
middleName: "Gejl",
nickName: "",
gender: "girl",
house: "Hufflepuff",
isPrefect: false,
isInqSquadMember: false,
isExpelled: false,
bloodStatus: "Pureblood",