

11C.04.04 – Hacked Hogwarts Student List

Hogwarts Student List				
<div>Gryffindor Hufflepuff Ravenclaw Slytherin</div> <div>All Students Expelled Non-expelled</div>				
Search: <input type="text"/>				
Click on category for sorting students alphabetically				
Firstname	Lastname	Gender	House	
Pansy	Parkinson	Girl	Slytherin	Details
Hannah	Abbott	Girl	Hufflepuff	Details
Susan	Bones	Girl	Hufflepuff	Details
Justin	Finch-fletchley	Boy	Hufflepuff	Details
Terry	Boot	Boy	Ravenclaw	Details
Zacharias	Smith	Boy	Hufflepuff	Details
Ernest	Macmillan	Boy	Hufflepuff	Details
Megan	Jones	Girl	Hufflepuff	Details
Wayne	Hopkins	Boy	Hufflepuff	Details
	Leanne	Girl	Hufflepuff	Details
Lavender	Brown	Girl	Gryffindor	Details
Seamus	Finnigan	Boy	Gryffindor	Details
Hermione	Granger	Girl	Gryffindor	Details
Neville	Longbottom	Boy	Gryffindor	Details
Parvati	Patil	Girl	Gryffindor	Details
Harry	Potter	Boy	Gryffindor	Details
Dean	Thomas	Boy	Gryffindor	Details
Ronald	Weasley	Boy	Gryffindor	Details
Mandy	Brocklehurst	Girl	Ravenclaw	Details
Padma	Patil	Girl	Ravenclaw	Details
Lisa	Turpin	Girl	Ravenclaw	Details
Stephen	Cornfoot	Boy	Hufflepuff	Details
Anthony	Goldstein	Boy	Ravenclaw	Details

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Link to final solution:

http://huesaab.dk/kea/3.sem/01/hacked_hogwarts/index.html

Link to github repository:

https://github.com/kath423a/hacked_hogwarts

The image displays four screenshots of a web application titled "Hogwarts Student List".

- Top Left:** The initial state. It features a header with the title, a category filter set to "All", and statistics: "Students displayed: 35", "Students not-expelled: 27", and "Students expelled: 8". Below the header is a table with columns: Harry, James, Potter, Boy, Gryffindor, and Details. The table is currently empty.
- Top Right:** The state after clicking the "Details" button. A modal form appears with fields for "Firstname:", "Middlename:", "Lastname:", "Nickname:", "Blood status:", "Student status:", and "House:". The "Student status" field has two buttons: "Make Prefect" and "Expel Student". A large "X" is visible in the background of the form.
- Bottom Left:** The state after clicking "Make Prefect". A "Warning!" dialog box is shown, stating: "You can only have one prefect of each house. Do you want to remove the other?". It includes a "Remove" button.
- Bottom Right:** The state after clicking "Expel Student". A "Warning!" dialog box is shown, stating: "There can not be anymore than two prefects. Do you wish to remove one of the existing prefects?". It includes two "Remove" buttons.

- (list) Show list of students
- (popup/modal) Click one student in the list to see details
- (filter) Filtering the list
 - By house (Gryffindor, Hufflepuff, Ravenclaw, Slytherin)
- (expelling) Expel students and add to new list
- (sorting) Sorting the list
 - By firstname, lastname, gender, house (a-z)

- (total count) Show number of students in each house and total students and expelled
- (hacking) Hacked Hogwarts
- (prefects) Student can be made/toggled as prefects
→ Only two pr. House and preferably a boy and girl
- (search) Search for students in the list
- (ing squad) Inquisitional squad
- (blood-status) Find the blood-status of each student

User stories

- As an administrator I want to expel students, so I can manage students who misbehave
- As a developer I want to mix the blood-status, so I can mess with the purist administrators
- As an administrator I want to see who is prefect, so I can get a list of just the prefects
- As an administrator I want to be able to find students, so I don't have to look through the entire list
- As an admin I want to be able to sort students by first or lastname, so I can find a student easily

A can/can't list

- (list) - ✓
- (popup/modal) - ✓
- (filter) - (list) - ✓
- (sort) -(list) - ✓
- (expelling) - ~,
- (prefects) - ~
- (search) - ÷
- blood-status) - ÷
- (inq squad) - ÷
- (hacking) - ÷
- (total count) - ~

Pseudocode

Expelling:

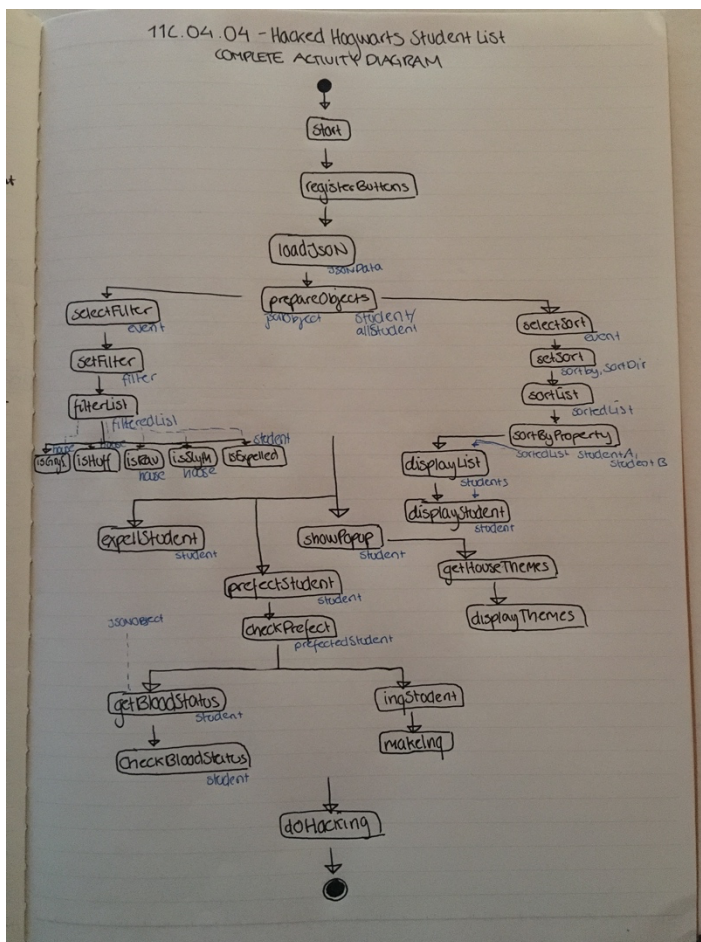
- //click on button "expel student" – addEventListener
- //expel the student by making new const and equal that to allStudents.indexOf(student)
- //create expelledStudent and splice allStudents
- //expelledList with unshift
- //call and add to the buildList()

Prefects:

- //make student prefect with if/else, true/false
- //create prefectStudent = allStudents.filter

- //add length
- //check if there is another from same house with if/else
- //ask to remove or ignore
- //if ignore - do nothing
- //if remove other
- //ask the user to remove A or B student
- //show names on the buttons
- //if ignore – do nothing
- //if remove A
- //else if remove B
- //remove prefect
- //make student prefect with true

Activity Diagram



Student object properties

Screengrab of the student object:

```
const Student = {  
  firstname: "",  
  lastname: "",  
  gender: "",  
  house: "",  
  middlename: "null",  
  nickname: "null",  
  bloodStatus: "null",  
  image: "",  
  expelled: false,  
  prefect: false,  
};
```

missing: blood-status: false, inq: false, ;

Couldn't get to work:

- Search
- Bloodstatus
- Inq
- Hacking
- Themes