Hacked Hogwarts Student List

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MMD 2021 - Frontend
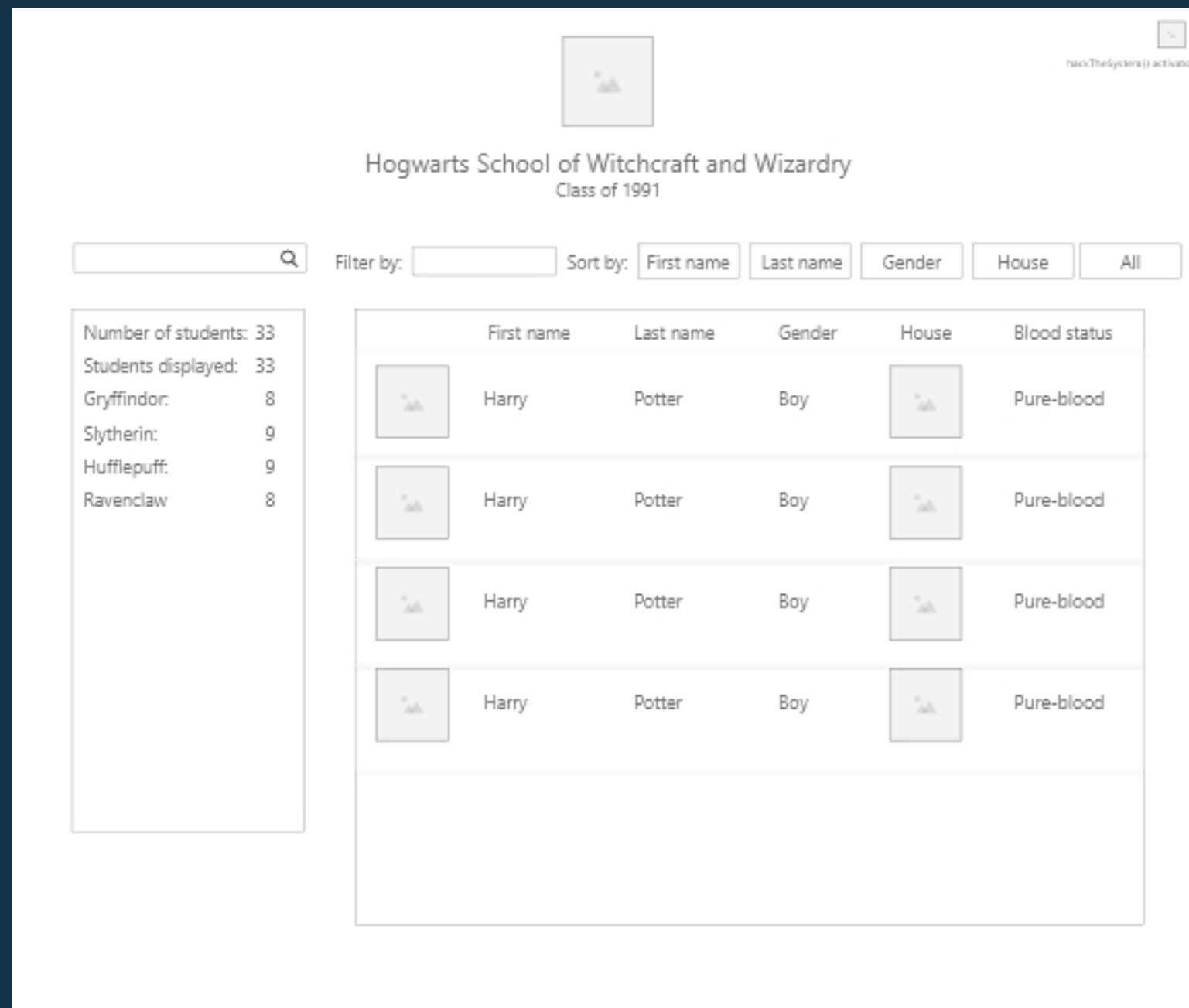
KEA

Link to final solution:
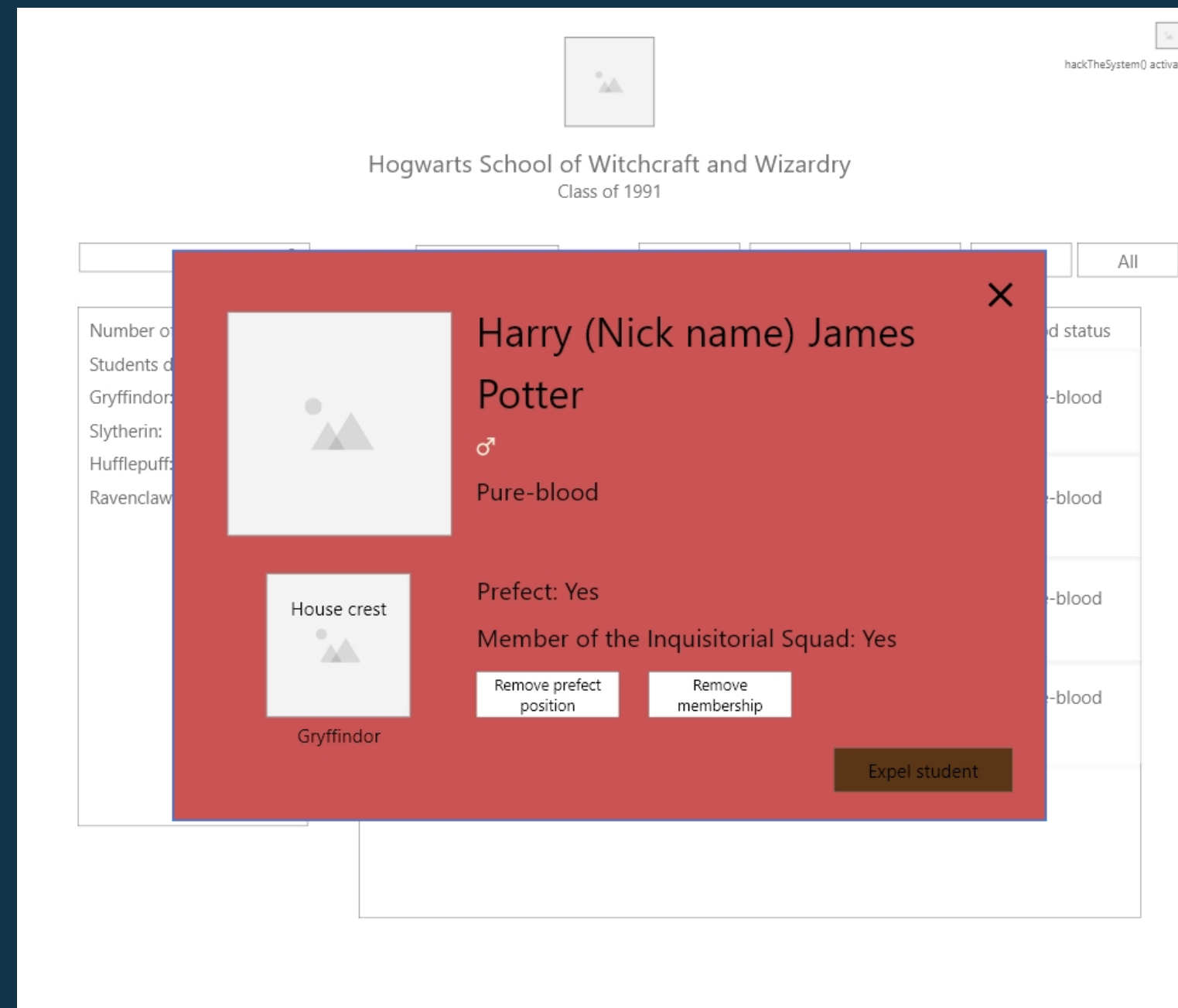
https://anasofich.github.io/11C.04.04---Hacked-Hogwarts-Student-List

Link to Github repository:

https://github.com/anasofich/11C.04.04---Hacked-Hogwarts-Student-List

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Hogwarts School of Witchcraft and Wizardry
Class of 1991

Filter by:
Show all Gryffindor Slytherin Hufflepuff Ravenclaw Non-expelled Expelled Pure-blood Half-blood Muggle-born

search student by name

Sort by:
First name Last name Gender House

Number of enrolled students: 34

Students displayed: 34

Gryffindor: 8
Slytherin: 9
Hufflepuff: 9
Ravenclaw: 8

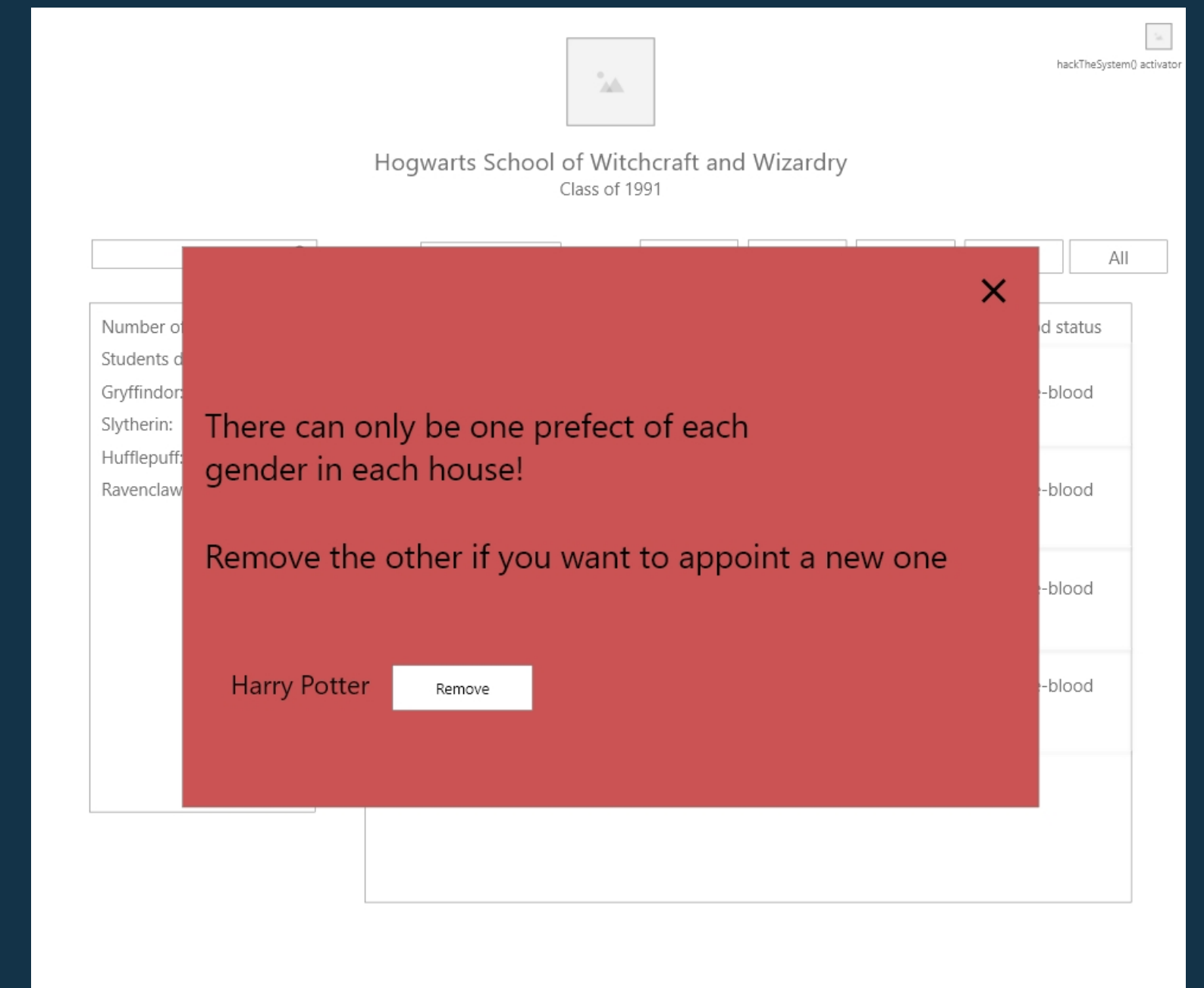| First name	Last name	Gender	House	Blood status
Pansy	Parkinson	girl		
Hannah	Abbott	girl		
Susan	Bones	girl		
Justin	Finch-fletchley	boy		
Terry	Boot	boy		
Zacharias	Smith	boy		

Wireframes for the visual design

Student List Display

Student Pop Up

Dialog Box

Components

Student list

Sort by first name

Sort by last name

Sort by house

Sort by gender

Filter by house

Pop up with detailed info

Expel function

Filter expelled vs non-expelled

Prefect function in pop-up (only two from each house, a boy and a girl)

Inquisitorial squad function (any number of students can be appointed, but only pure-blood or students from Slytherin)

Filter by blood status

Algorithm for blood status

hackTheSystem() function

Search function

Show number of students in each house

Show total number of students (not expelled)

Show students currently displayed

Features

Filters

Filter by:

Show all | Gryffindor | Slytherin | Hufflepuff | Ravenclaw | Non-expelled | Expelled | Pure-blood | Half-blood

Muggle-born

Sort

Sort by:

First name | Last name | Gender | House

Search

Search student by name

Details about the list

Number of enrolled students: 34

Students displayed: 34

Gryffindor: 8

Slytherin: 9

Hufflepuff: 9

Ravenclaw: 8

Features

Add/remove prefect position

Add prefect position   Remove prefect position

Add/remove Inquisitorial Squad Membership

Add membership   Remove membership

Expel/Unexpel Student

Expel   Unexpel

hackTheSystem() function - activated by pressing on sorting hart in the top right corner of the page

(background color changes colors during hacked mode)

Can/can't list

| Feature	Can/can't
Show student list (first name, last name, house)	✓
"Clean" names	~
Sort by first name	~
Sort by last name	~
Sort by house	~
Sort by gender	~
Filter by house	~
Pop up with detailed info (photo, house-crest, color, blood status, prefect, membership, expel)	~
Add expel function	~
Filter expelled vs non-expelled	~
Add prefect function in pop-up (only two from each house, a boy and a girl)	~
Add inquisitorial squad function (any number of students can be appointed, but only pure-blood or students from Slytherin)	~
Filter by blood status	~
Make algorithm for blood status	~
hackTheSystem() function (inject myself, can't be expelled, break inquisitorial squad so that if added they get remove automatically after some time, mess up pure-blood algorithm, status will be random for all students)	~
Search function	~
Show number of students in each house	~
Show total number of students (not expelled)	~
Show students currently displayed	✓

Activity diagrams for algorithms
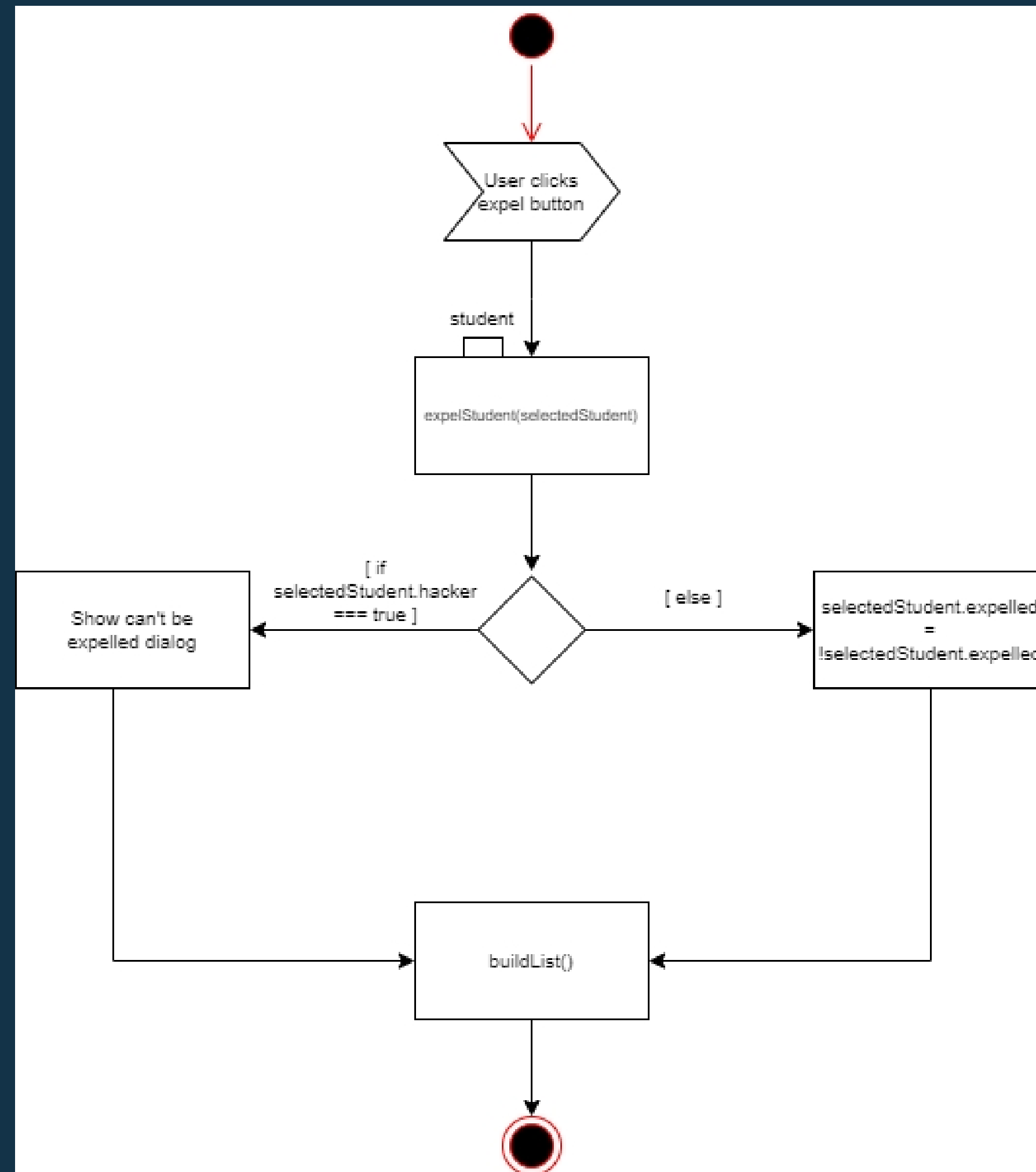
Expelling
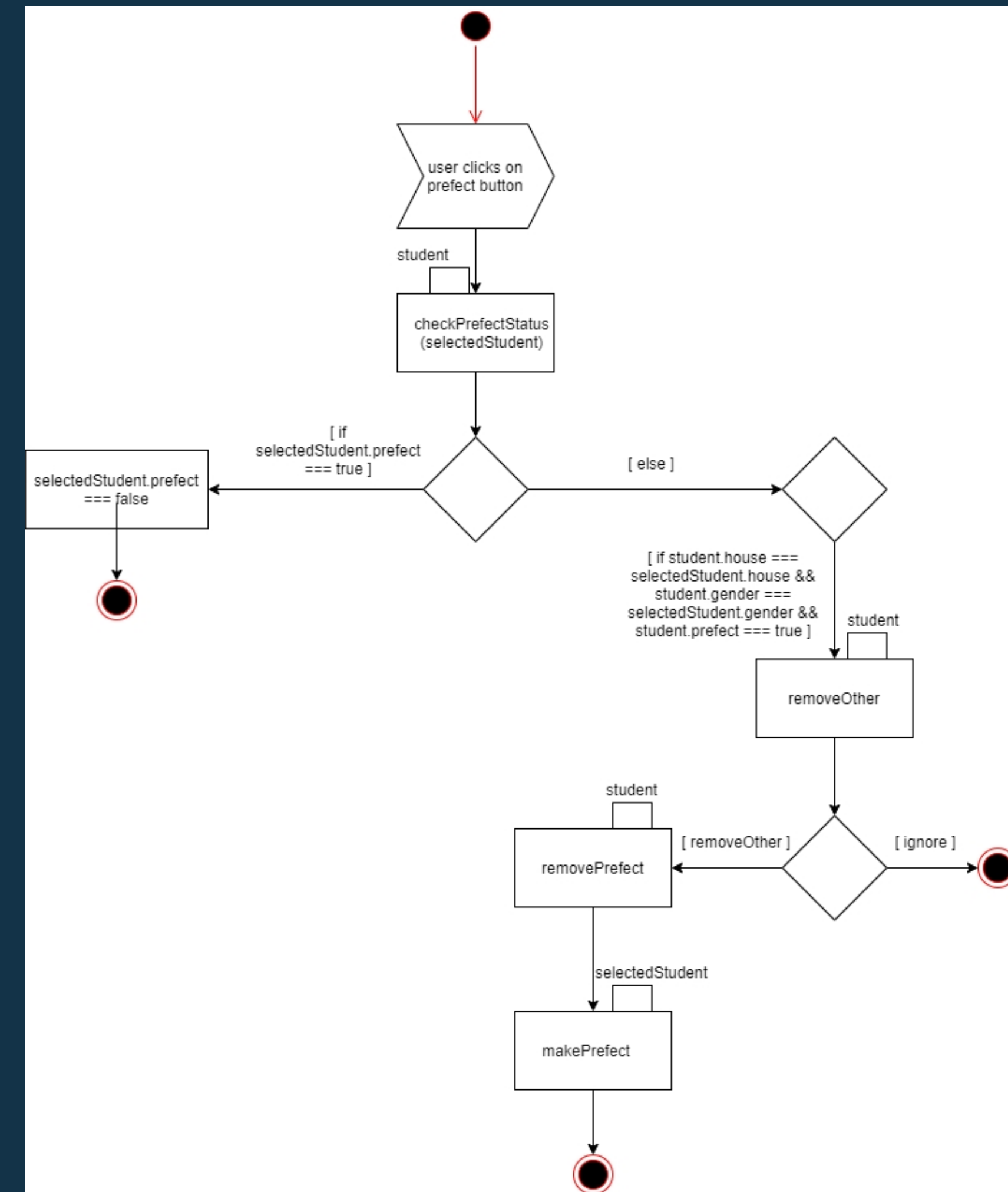
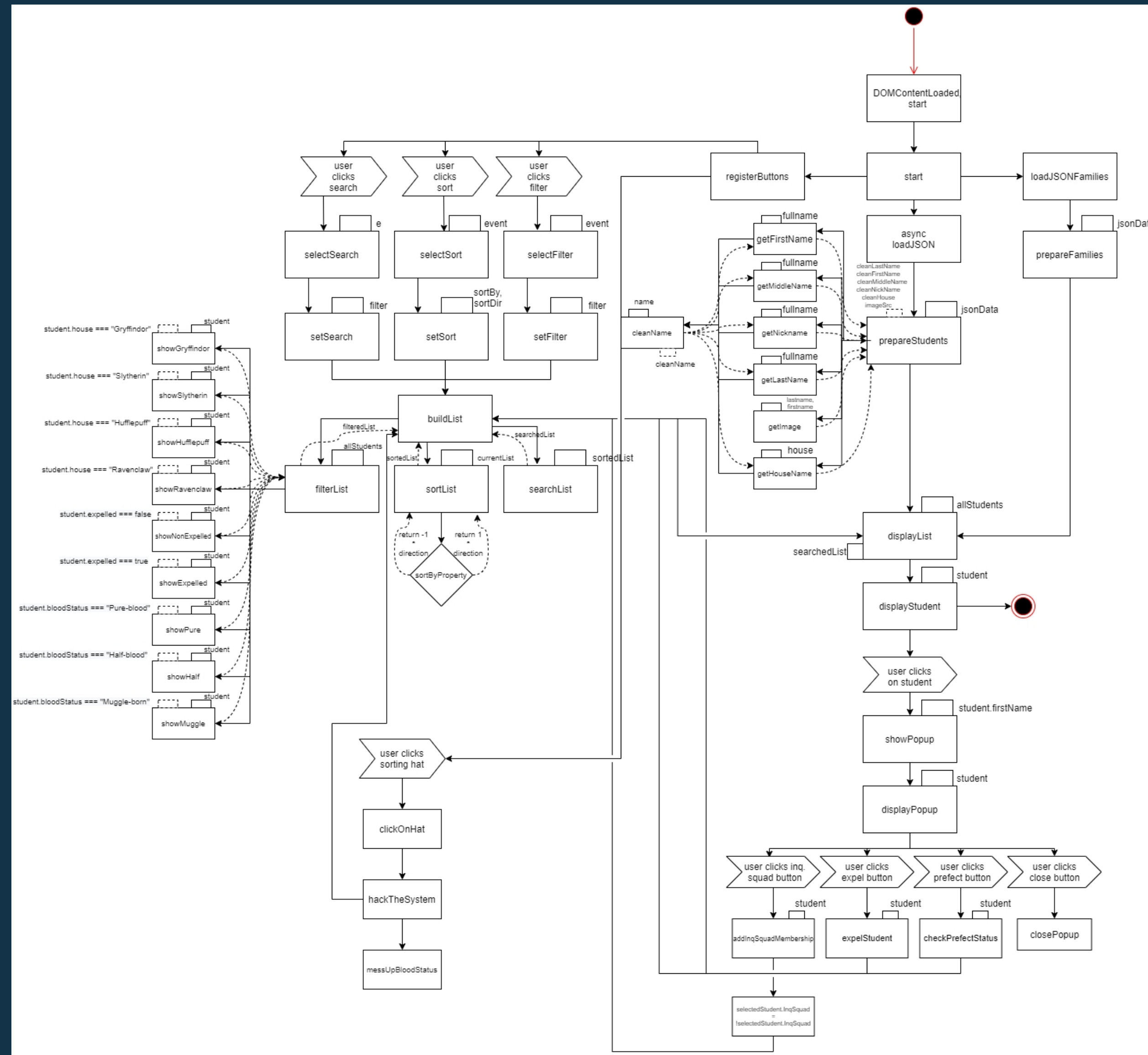Prefects

Activity diagrams for algorithms
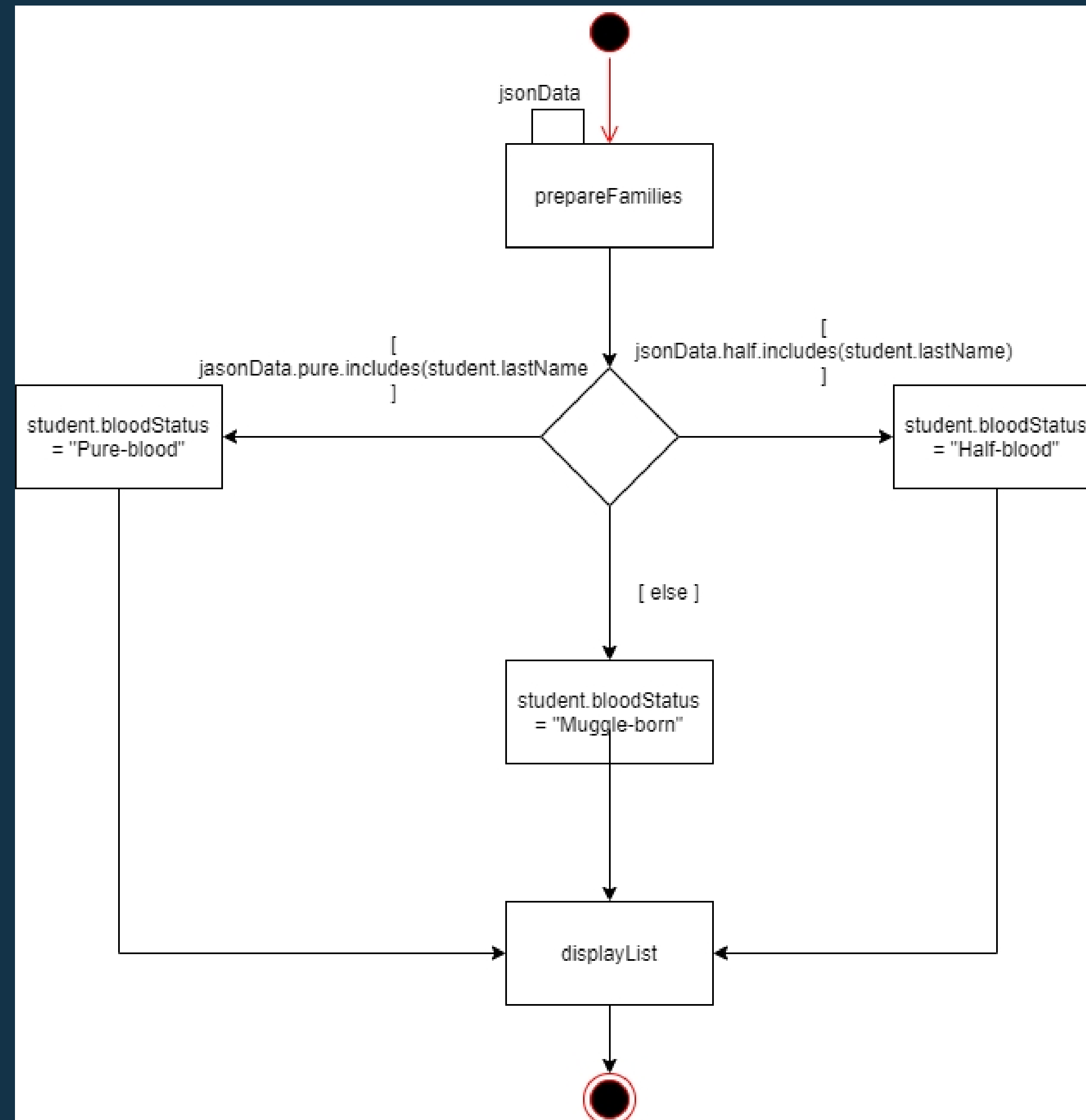
Blood-status
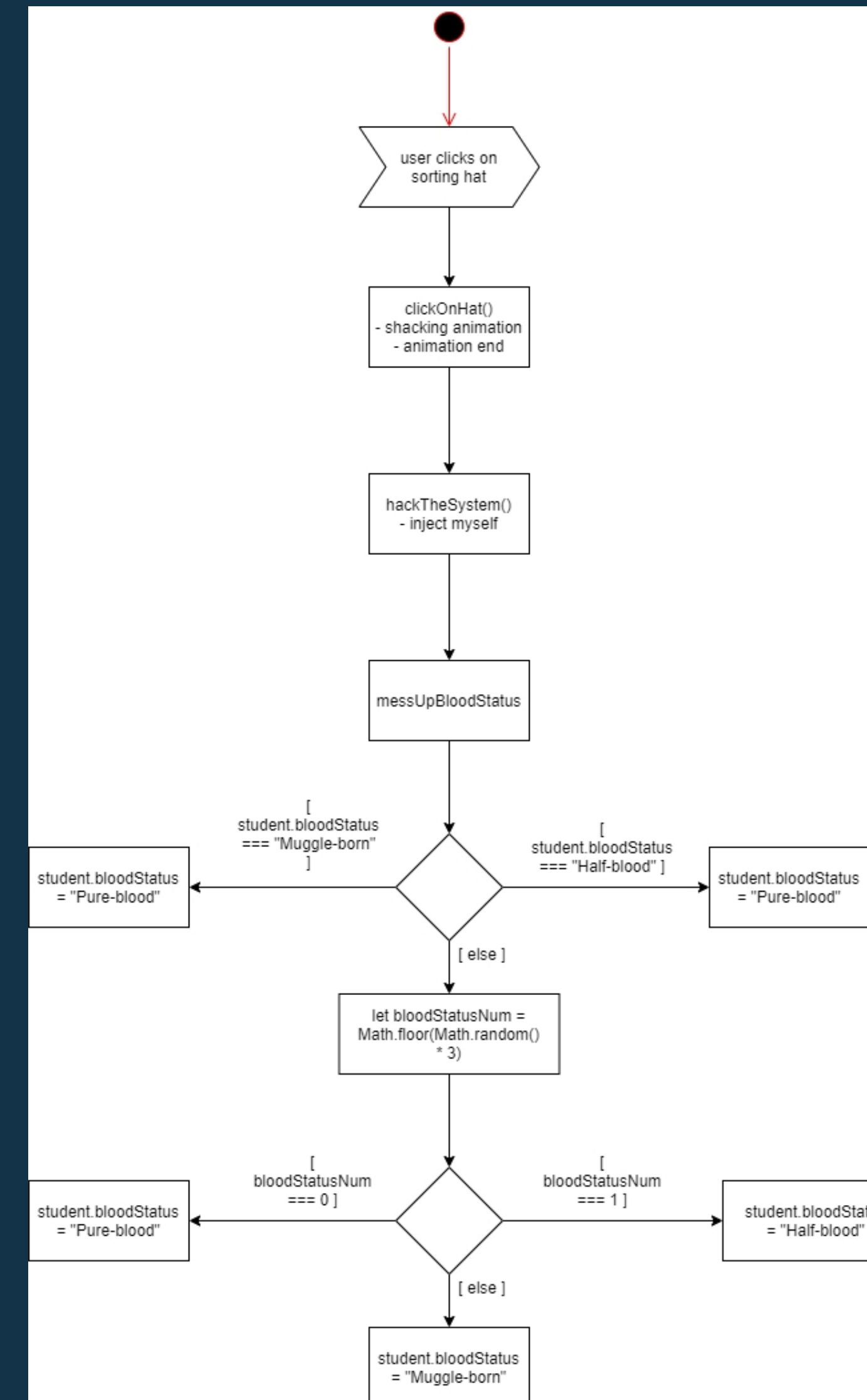
hackTheSystem

Activity diagram for all functions

Student Object Properties

```
const Student = {
  firstName: "",
  middleName: "",
  nickName: "",
  lastName: "",
  image: "",
  house: "",
  prefect: false,
  expelled: false,
  bloodStatus: "",
  InqSquad: false,
};
```

Appendix

Links to activity diagrams (for better quality and readability)

Blood-status

https://drive.google.com/file/d/1dmdf17KJUDv6LHXgJ1ZEunx_nIXiTpX0/view?usp=sharing

hackTheSystem

https://drive.google.com/file/d/1qWd3oYH5lzI_2x7ykJQvKyqBD1yMk-IJ/view?usp=sharing

Expelling

https://drive.google.com/file/d/1mk0nWTrrAM6O2LDiMul4UnbhVQEuoxUZ/view?usp=sharing

Prefects

https://drive.google.com/file/d/1v5FzCmvmVZEZ1JRKmRPawknoXx_RkrPc/view?usp=sharing

All functions

https://drive.google.com/file/d/1GlikzalOUCVUy1LrlH8IhttmvjYBWu8s/view?usp=sharing