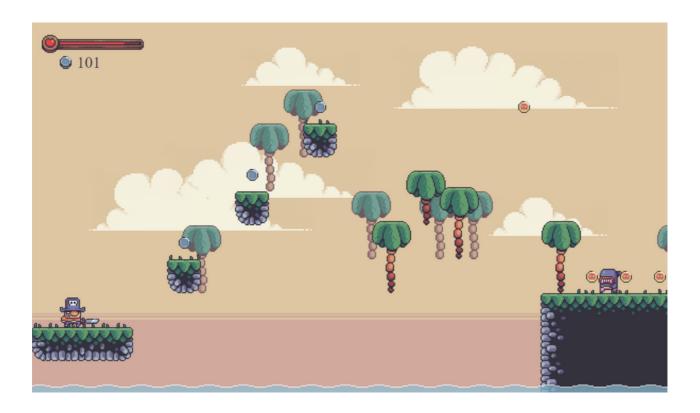
VILLE PRAMI COMPUTER SCIENCE

PORTFOLIO

PROJECTS

PLATFORMER GAME 2022



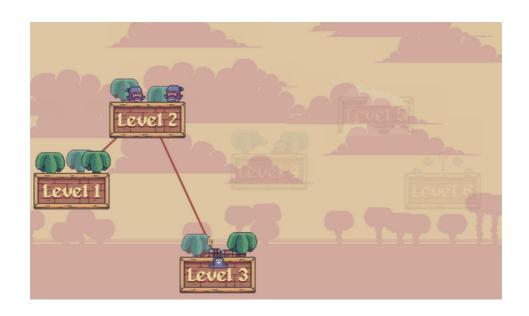
This project is a Mario-styled platformer game based on a python game tutorial. To challenge myself I created the game in pure vanilla Javascript.

LANGUAGES, TOOLS & FRAMEWORKS



LINKS

PLAY NOW Source code (GitHub)







LIBRARY APP 2022

FULL STACK OPEN PROJECT

Authors	Books	Add book	Recommen	d Logou	ıt				
Books									
In genre a	ll genres								
			Autho	r l	Publi	shed			
Atomic Habits			James Clear		2018				
Can't Hurt Me			David Goggins		2018				
The Shining			Stephen King		1977				
Frankenstein			Mary Shelley		1818				
Norjalaisia villapaitoja			Linka Neumann		2020				
A Game of Thrones George R. R. Martin 1996									
The Fellowship of the Ring J. R. R. Tolkien 1954									
The Great Gatsby			F. Scott Fitzgerald		1925				
Moby-Die	ck	1	Herman Melville		1851				
selfhelp	psycholo	ogy family	health ca	areer ho	orror	crafts	fantasy	classic	All genres

This project was done for the Full Stack Open course. It is a small library app with Apollo GraphQL backend and React frontend.

The application stores data with MongoDB.

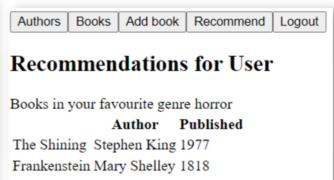
LANGUAGES, TOOLS & FRAMEWORKS



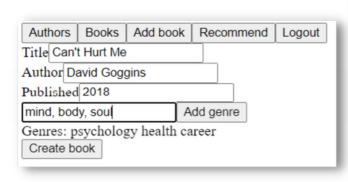
LINKS

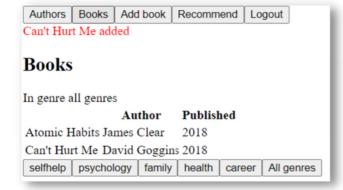
Source code (GitHub)

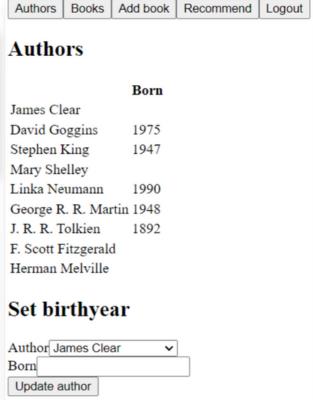






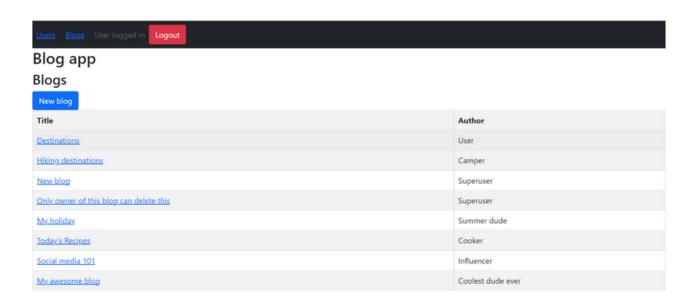






BLOG APP 2022

FULL STACK OPEN PROJECT



This project was done for the Full Stack Open course. It is a bloglist application with Express backend. Frontend is implemented using React with redux for state management and React router for page views. The application stores data with MongoDB.

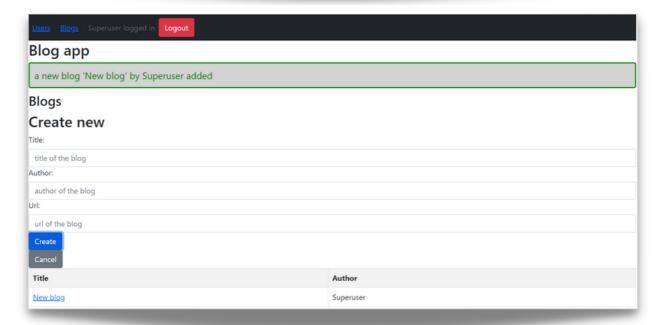
LANGUAGES, TOOLS & FRAMEWORKS



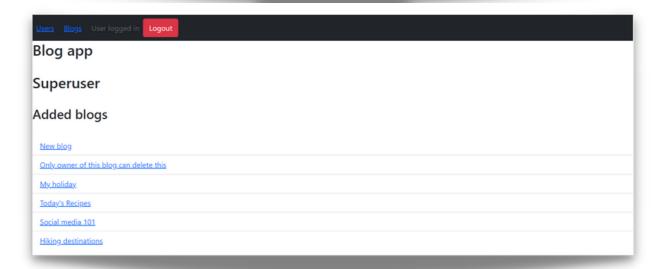
LINKS

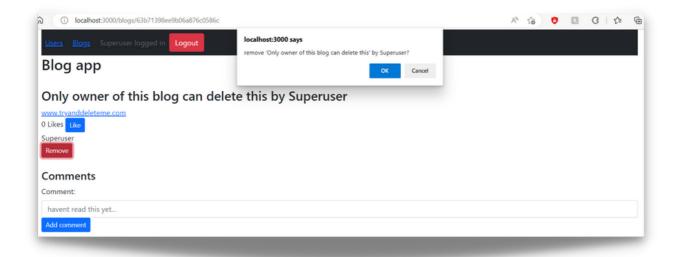
Source code (GitHub)

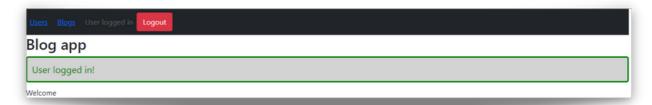


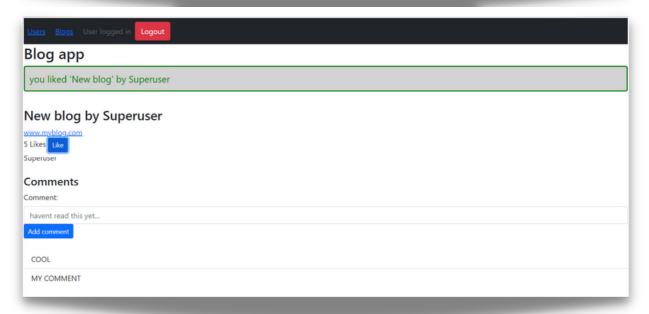


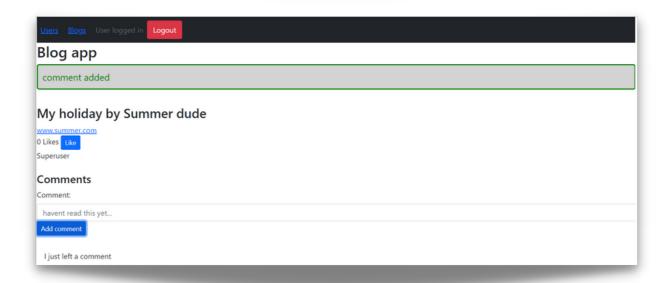












DIAGNOSIS APP 2022

FULL STACK OPEN PROJECT

Patientor

HOME Patient list									
Name	Gender	Occupation	Health Rating						
John McClane	male	New york city cop	***						
Martin Riggs	male	Сор	***						
Hans Gruber	male	Technician	***						
Dana Scully	female	Forensic Pathologist	***						
Matti Luukkainen	male	Digital evangelist	***						
ADD NEW PATIENT									

This project was done for the Full Stack Open course TypeScript section. It is a simple medical record application for doctors who handle diagnoses and basic health information of their patients. The base of the frontend was implemented by experts from Terveystalo and my job was to extend it using React with TypeScript. The application also has a backend with Express and TypeScript.

LANGUAGES, TOOLS & FRAMEWORKS







TypeScript



Css



Html



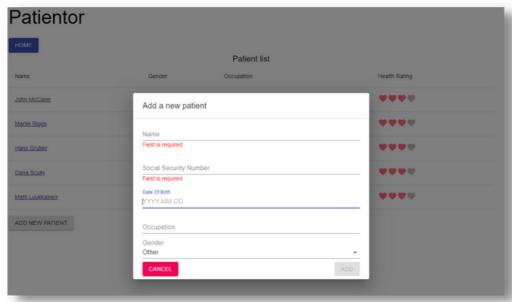
Express



GitHub

LINKS

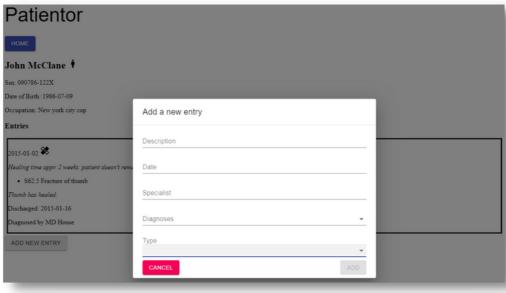
Source code for backend (GitHub)
Source code for frontend (GitHub)

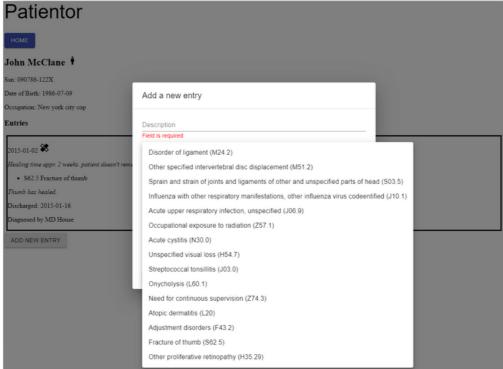


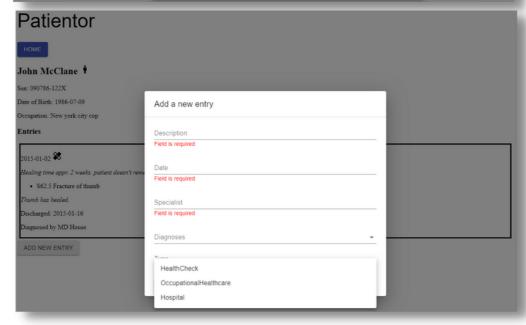
Patientor Martin Riggs Ssn: 300179-777A Date of Birth: 1979-01-30 Occupation: Cop Entries 2019-08-05 HyPD Patient mistakenly found himself in a nuclear plant waste site without protection gear. Very minor radiation poisoning. - Z57.1 Occupational exposure to radiation - Z74.3 Need for continuous supervision - M51.2 Other specified intervertebral disc displacement Sick leave from 2019-08-05 until 2019-08-28 Diagnosed by MD House

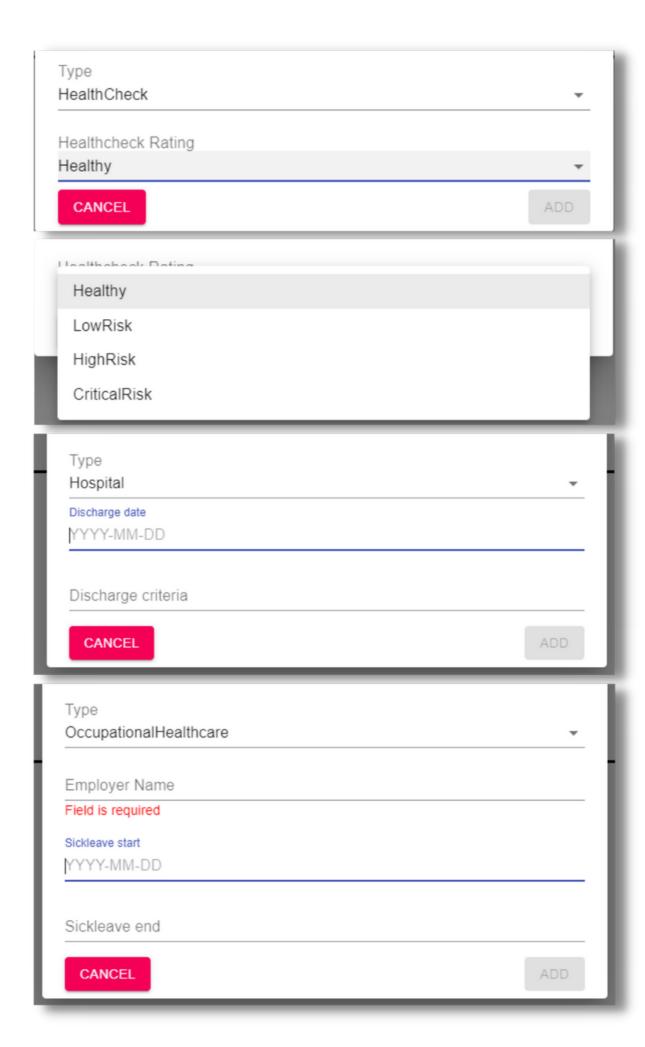
Patientor





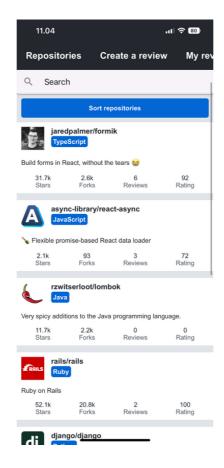






REPOSITORY 2 0 2 2 RATE APP

STACK OPEN PROJECT



This project was done for the Full Stack Open course React Native section. It is an mobile application for rating GitHub repositories. The application has features such as, sorting and filtering reviewed repositories, registering a user, logging in and creating a review for a repository.

LANGUAGES, TOOLS & FRAMEWORKS













React Native

Javascript

GraphQL

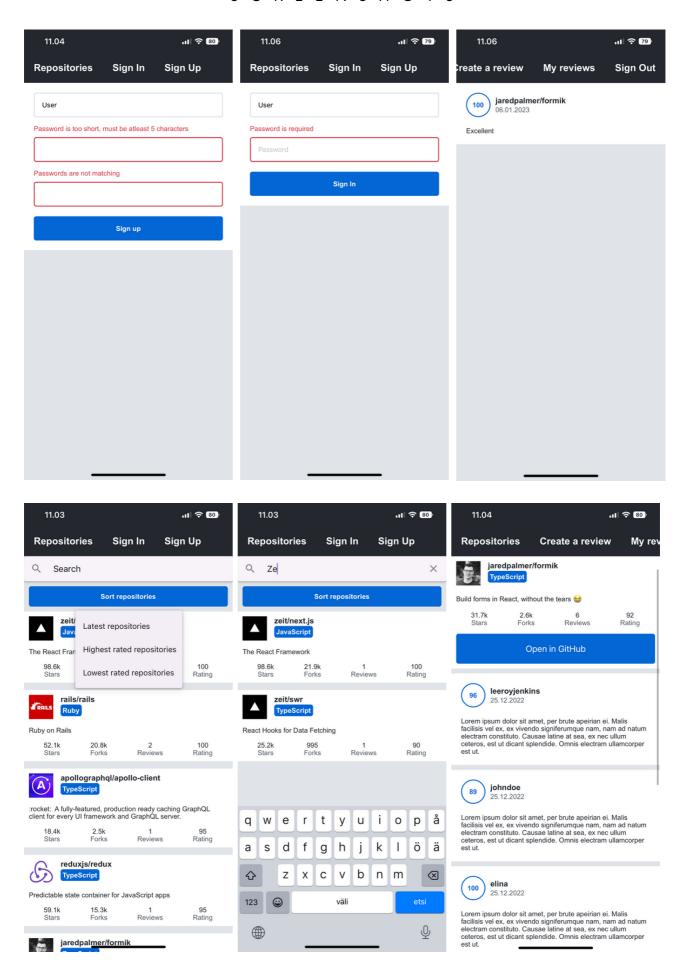
Apollo

Expo

GitHub

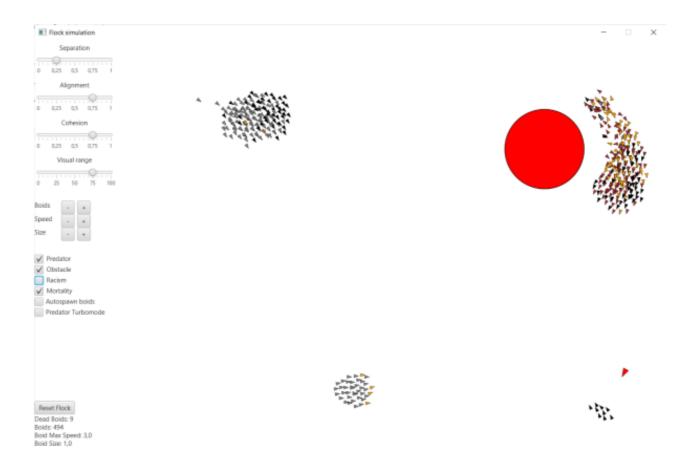
LINKS

Source code (GitHub)



FLOCK SIMULATION APP 2022

PROGRAMMING STUDIO 2: PROJECT



My first real programming project was done for the programming studio 2 course: Flock Simulation (Boids). It is an artificial life program which simulates the flocking behaviour of birds. The project was done in Scala with ScalaFX (UI DSL).

LANGUAGES, TOOLS & FRAMEWORKS



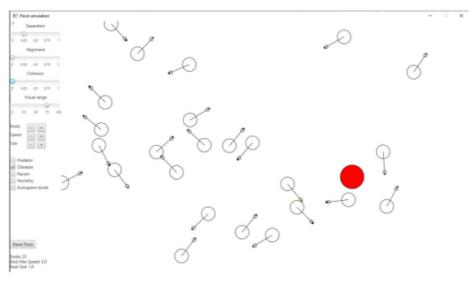


Scala

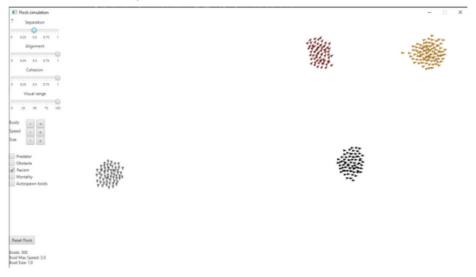
ScalaFX

LINKS

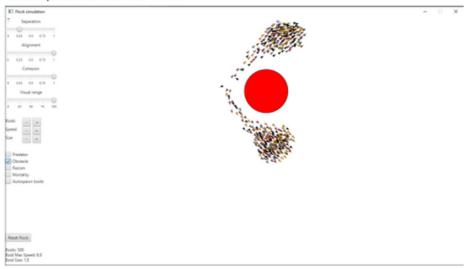
<u>Demo video (YouTube)</u> <u>Full documentation (GitHub)</u> <u>Source code (GitHub)</u>



Boids with their collision spheres visible.



Boids separated to their own colors.



Obstacle splitting a flock

MAJOR RELATED COURSES

- Programming 1 (Scala)
- Programming 2 (Scala)
- Basic Course in Programming Y1 (Python)
- Basic Course in C programming
- Programming Studio 1
- Programming Studio 2: Project
- Data Structures and Algorithms (Scala)
- Web Software Development
- Full Stack Web Development
- User-centered Product Development Project
- Databases
- Differential and Integral Calculus 1
- Differential and Integral Calculus 2
- Foundations of Discrete Mathematics
- First Course in Probability and Statistics
- Matrix Algebra
- Structure of Matter
- Electricity and Magnetism