LTI FINAL PRESENTATION

Ahmet Yasir Cilvez - Open Zeka

Outline

- The Company: Open Zeka
- Project Description
- Progress
- Conclusion

Open Zeka

 Open Zeka was established in Ankara to develop intelligent systems.

Areas of Working on

- Image analysis with an accuracy close to human perception
- Deep learning-based artificial intelligence algorithms
- Artificial intelligence-based services and algorithms



Project Description

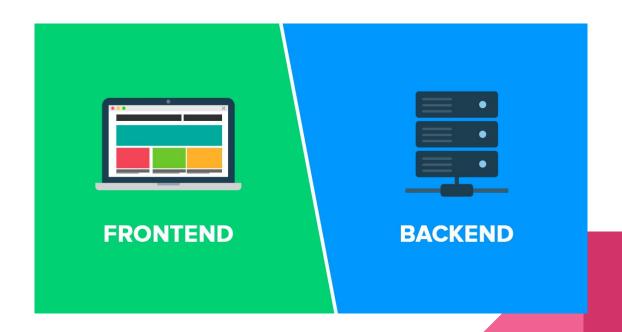
Stock Management System

- Vue.js based front-end
- Node.js based back-end
- PostgreSQL database



Progress - What did I do?

Full Stack Development - Frontend & Backend



Progress - What did I learn?









Progress - What did I learn?





Postgre**SQL**







Progress - What did I learn?



Progress - What did I do?

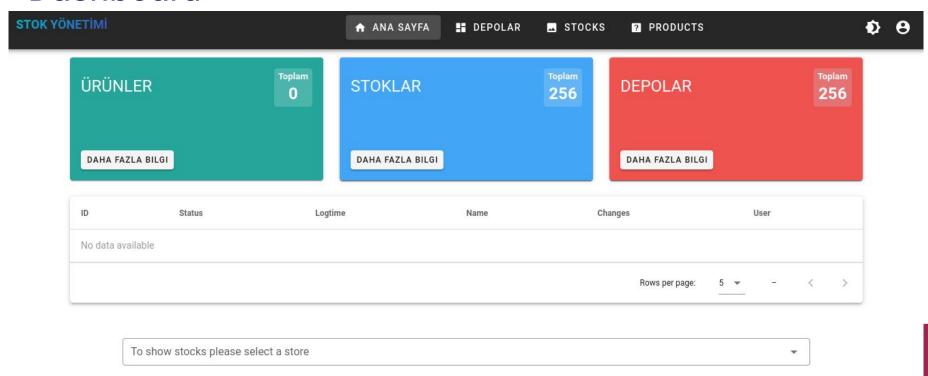
- User Profile Page Design
- Dashboard Design
- New Product Adding Page Design
- Products & Categories Frontend Backend Designs
- WebRTC Communications

User Profile Page

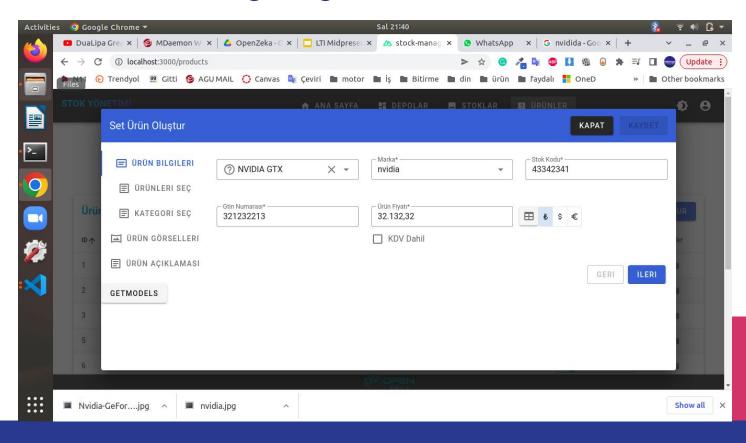
STOK YÖNETİMİ ANA SAYFA 0 # DEPOLAR ■ STOCKS ? PRODUCTS **Hesap Bilgileri** Hoşgeldin, ahmet İsim ahmet Hesap Bilgileri Soyisim yasir Parolayı Değiştir Kullanıcı adı ahmet Hesap Ayarları ahmetyasir@mail.com E-posta

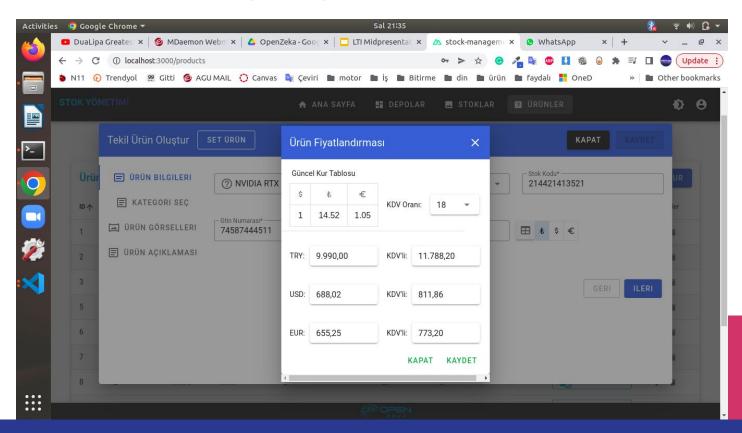


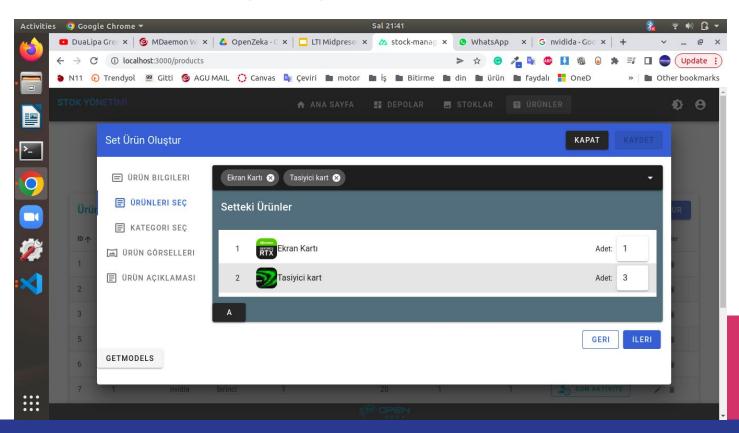
Dashboard

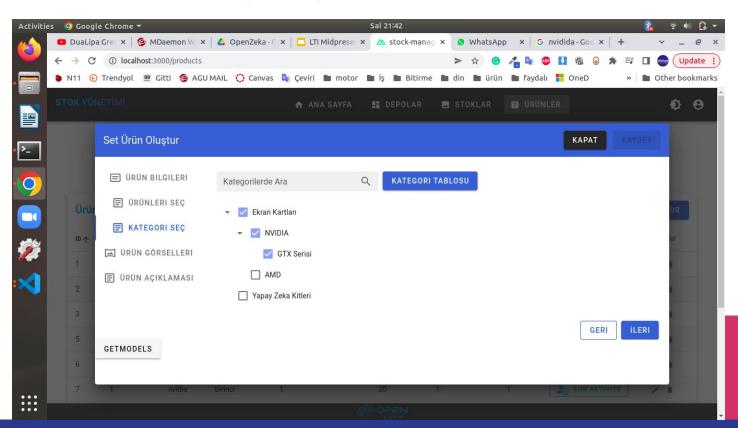












Category Listing Algorithm

```
{ id: 0, parent: 0, level: 0, name: 'root' },
  { id: 26, parent: 0, level: 1, name: 'Ekran Kartları' },
  { id: 27, parent: 26, level: 2, name: 'NVIDIA' },
  { id: 28, parent: 27, level: 3, name: 'GTX Serisi' },
  { id: 29, parent: 26, level: 2, name: 'AMD' },
  { id: 30, parent: 0, level: 1, name: 'Yapay Zeka Kitleri' }
```

categoryinfodialog.vue?8651:224 ▼Array(2) **▼ 0**: ▼ children: Array(2) ▶ 0: {id: 27, parent: 26, level: 2, na v 1: ▶ children: [] id: 29 level: 2 name: "AMD" parent: 26 ▶ [[Prototype]]: Object length: 2 ▶ [[Prototype]]: Array(0) id: 26 level: 1 name: "Ekran Kartları" parent: 0

▶ [[Prototype]]: Object

▶ [[Prototype]]: Object

▶ [[Prototype]]: Array(0)

name: "Yapay Zeka Kitleri"

b children: []
id: 30
level: 1

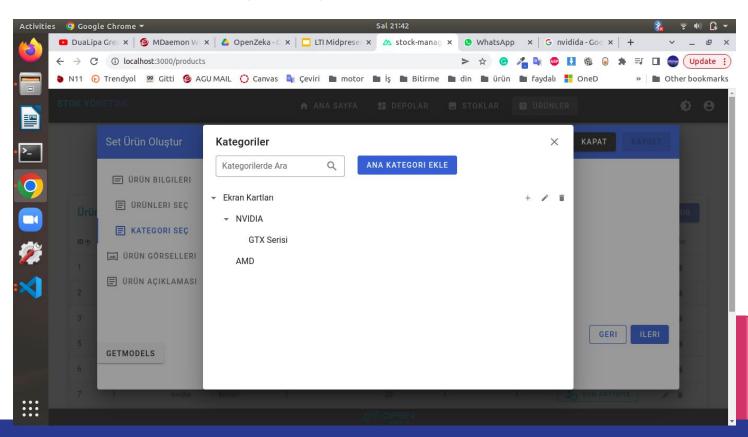
parent: 0

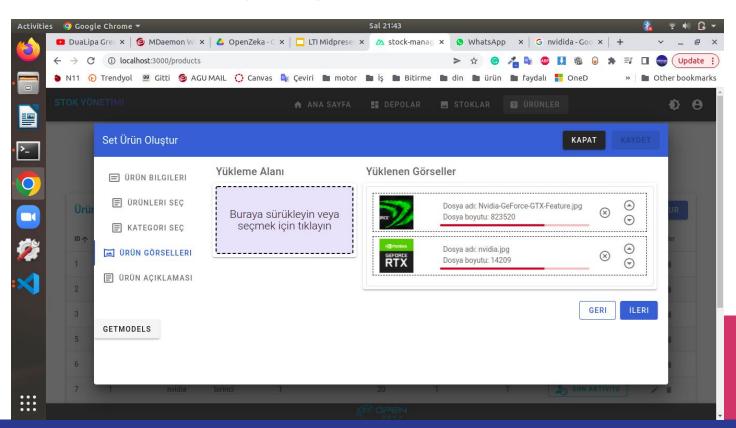
length: 2

w 1:

Category Listing Algorithm

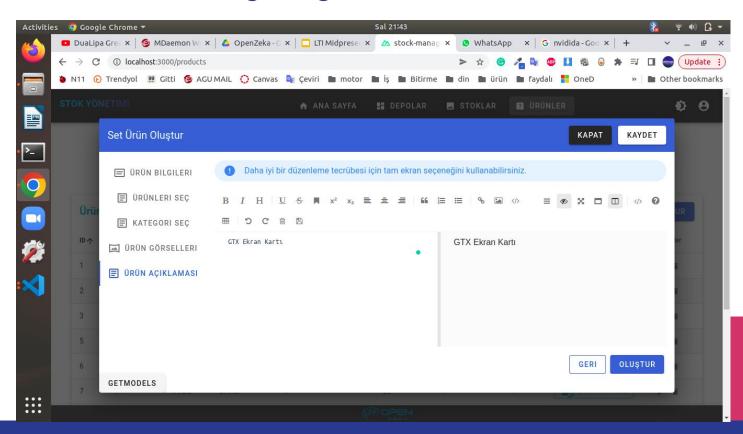
```
async create(@Body(ValidationPipe) data: CategoryDto) { //new categor
  const create cat = await this.categoryService.createCategory(data);
  let categoryArray = (await this.categoryService.allCategory()).data
  let newArray = []
  console.log(categoryArray)
  const children = { children: [] }
  for (let i = 0; i < categoryArray.length; i++) {
    categoryArray[i]['children'] = []
   newArray.push(categoryArray[i])
  let parent = {
    id: 0, name: "", parent: 0, level: 0, children: []
  let maxLevel = 0
  for (let i = 1; i < newArray.length; i++) {
    if (maxLevel < newArray[i].level) {
      maxLevel = newArray[i].level
```



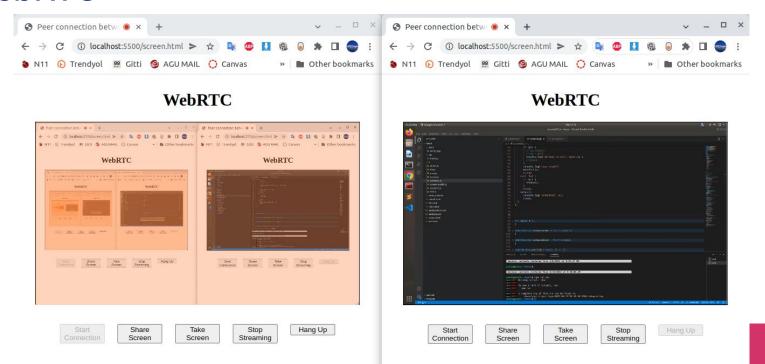


File Saving System

- 1. Controlling size of the file
- 2. Controlling type of the file jpg, jpeg or png
 - a. ffd8ffe0
 - b. ffd8ffe1
 - c. ffd8ffe2
 - d. 89504e47
- 3. Storing images in a folder at server side
- 4. Storing path and the name the images in database

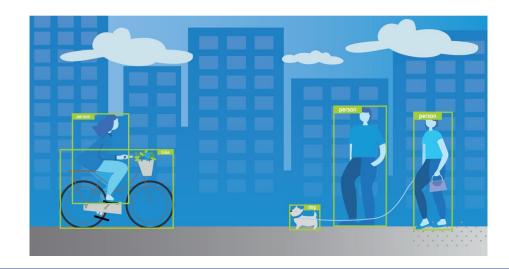


WebRTC



NVIDIA DLI - AI ON JETSON NANO COURSE

- Run and set up Jetson Nano
- Training with new datasets
- Image classification and regression





What Was Planned and Achieved?

- Finishing Stock Management System Project: Almost finished
- Working on Backend systems: Creating endpoints, using database, security systems
- Starting to another project: Decided to finish first project
- Good experience in Full Stack designs
 - Additional Works
- Finishing a DLI course
- Reading articles about AI and watching panels on NVIDIA GTC

Conclusion

How was my internship experience?

- I learned lots of new things used in software and web area.
- I found a change to be in a good environment to develop myself.

What is the point of working on Full Stack?

- Understand how Uls, servers, databases, communication protocols etc are working.
- Understand the whole concept, logic of an application, and make almost everything you think.

Thank You! Any Question?