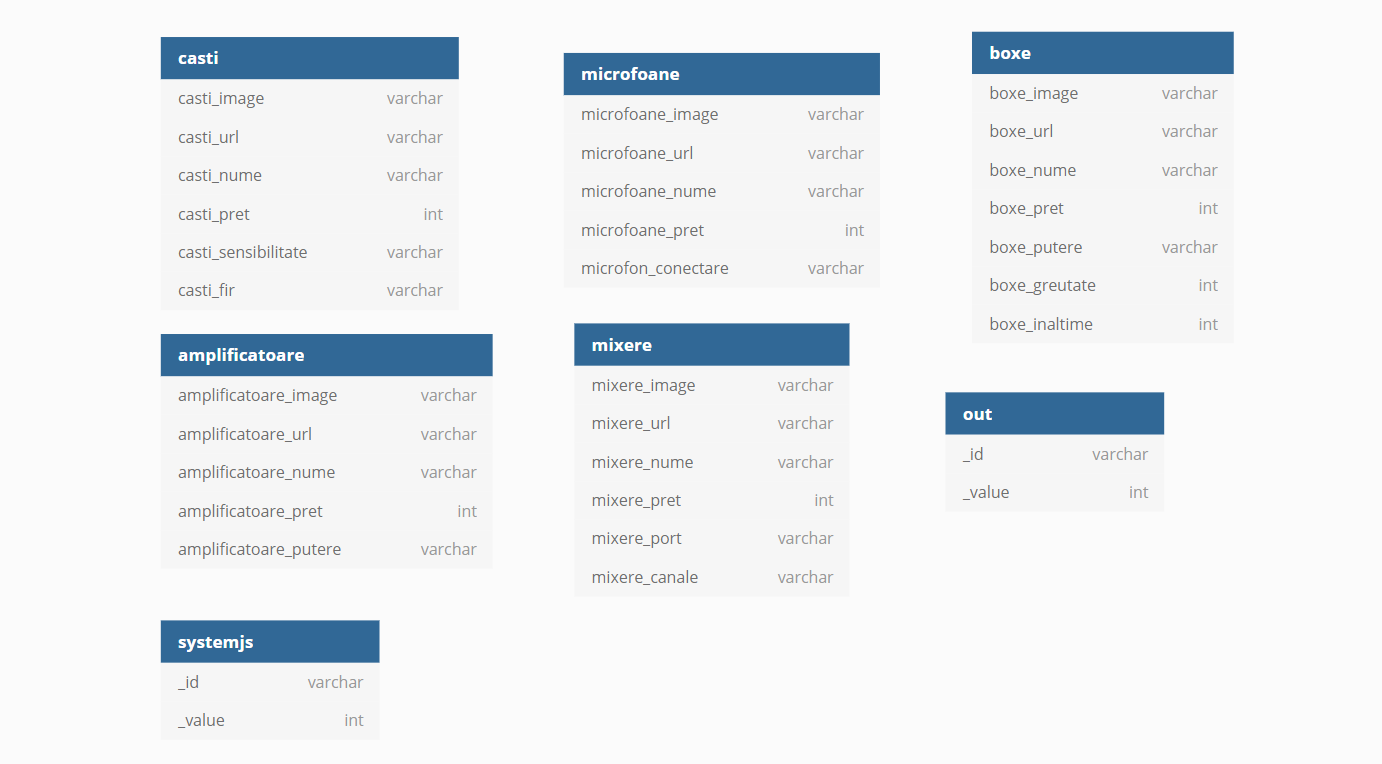
Proiect baze de date 2

# Magazin echipamente audio

**Descrierea proiectului:**

Baza de date contine urmatoarele colectii: amplificatoare , boxe, casti, microfoane, mixere, system.js(unde se afla functiile stocate), out ( outputul pentru functia de map Reduce).

**Diagrama bazei de date:**



Structura colectiilor:

colectia casti {

casti\_image string

casti\_url string

casti\_nume string

casti\_pret int

casti\_sensibilitate string

casti\_fir string

}

colectia amplificatoare {

amplificatoare\_image string

amplificatoare\_url string

amplificatoare\_nume string

amplificatoare\_pret int

amplificatoare\_putere string

}

colectia boxe {

boxe\_image string

boxe\_url string

boxe\_nume string

boxe\_pret int

boxe\_putere varchar

boxe\_greutate int

boxe\_inaltime int

}

colectia microfoane {

microfoane\_image string

microfoane\_url string

microfoane\_nume string

microfoane\_pret int

microfon\_conectare string

}

colectia mixere {

mixere\_image string

mixere\_url string

mixere\_nume string

mixere\_pret int

mixere\_port string

mixere\_canale string

}

colectia out {

\_id string

\_value int

}

colectia system.js {

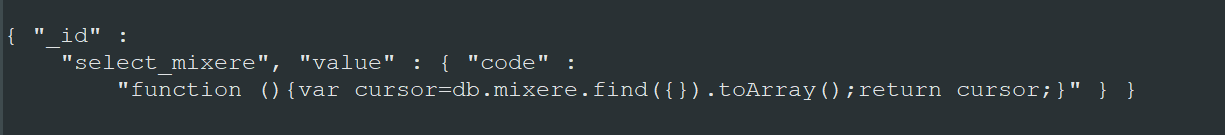
\_id string

\_value int

}

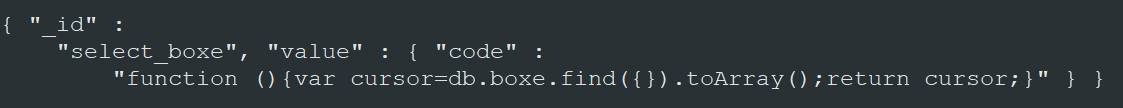
**Descrierea procedurilor și funcțiilor:**

select\_mixere():



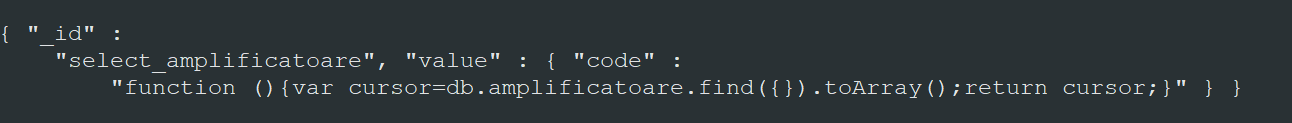
Intoarce datele din colectia mixere

select\_boxe



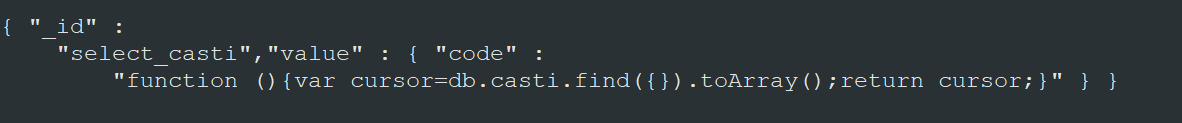
Intoarce datele din colectia boxe

select\_amplificatoare



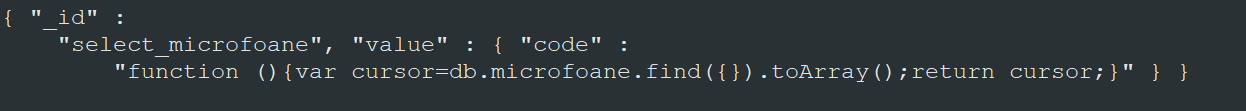
Intoarce datele din colectia amplificatoare

select\_casti



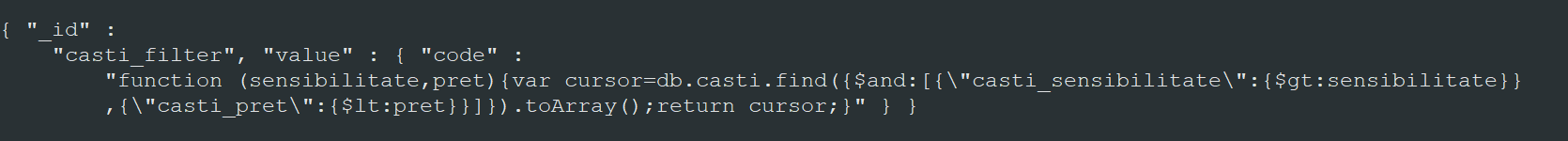
Intoarce datele din colectia casti

select\_microfoane



Intoarce datele din colectia microfoane

casti\_filter



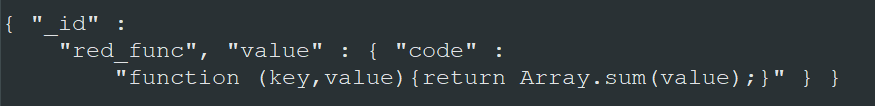
Selecteaza castile care au sensibilitatea mai mare decat sensibilitatea selectata si pretul mai mic decat pretul selectat

map\_functie si red\_func sunt folosite pentru functia de mapReduce

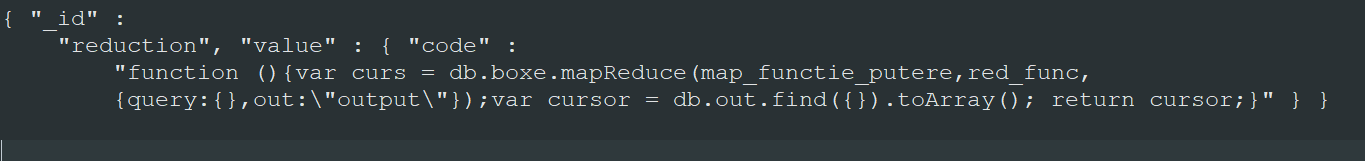
map\_functie\_putere mapeaza key-value cu puterea boxelor si 1



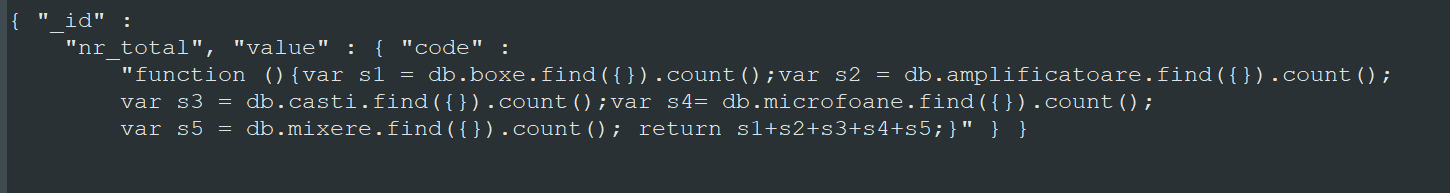
red\_func grupeaza puterea boxelor si aduna numarul lor



Functia de map reduce intoarce numarul de boxe cu o anumita putere



Nr\_total



Intoarece numarul de echipamente totale disponibile pentru cumparare pe site

**Descrierea aplicatiei**

Aplicatia este creata cu express js, node js iar pentru front end Bootstrap,HTML ,CSS.

Mai intai se face login-ul pe pagina (user:alex password: pass)

Dupa login se face trecerea la

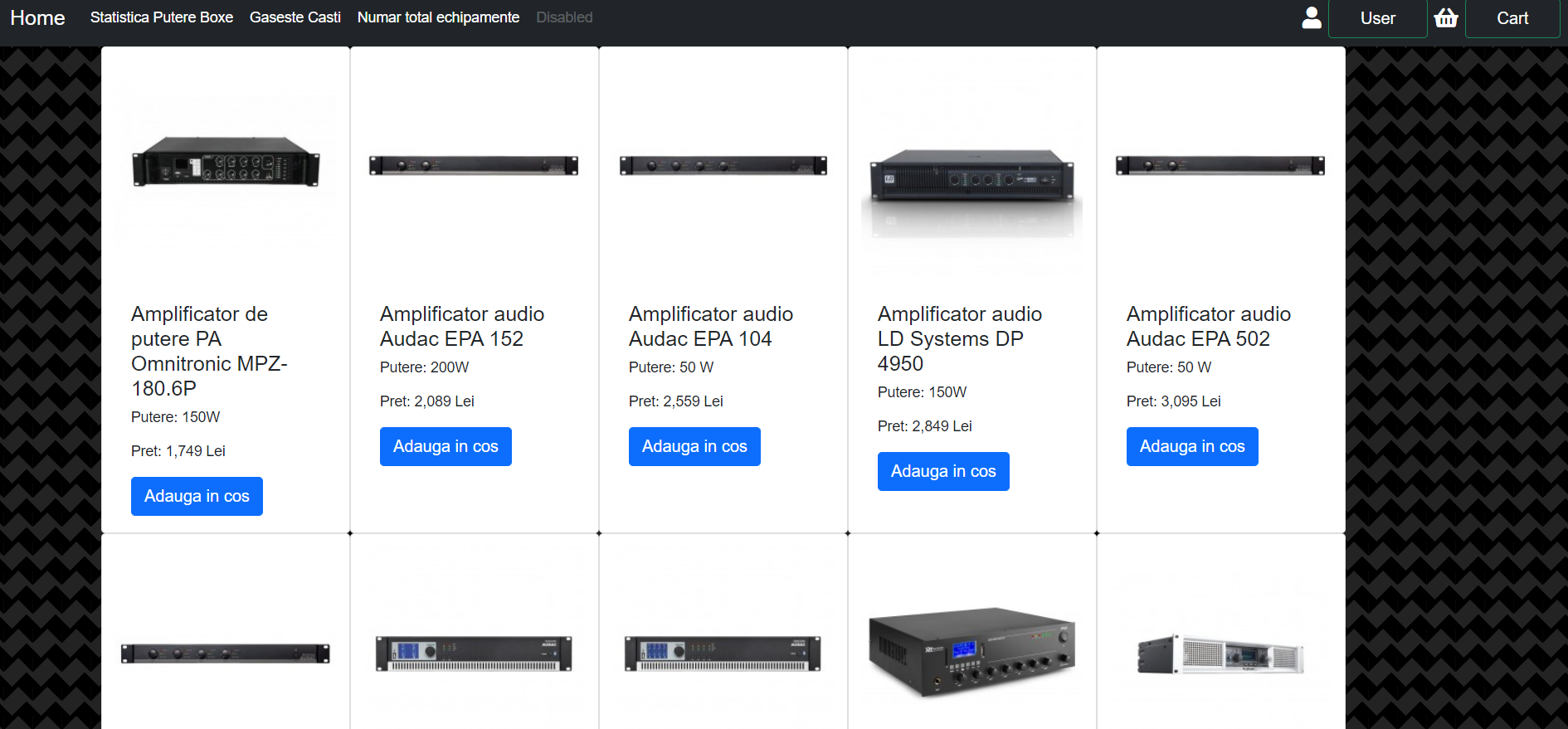
**Structura:**

app.js – importare ,initializare pachete

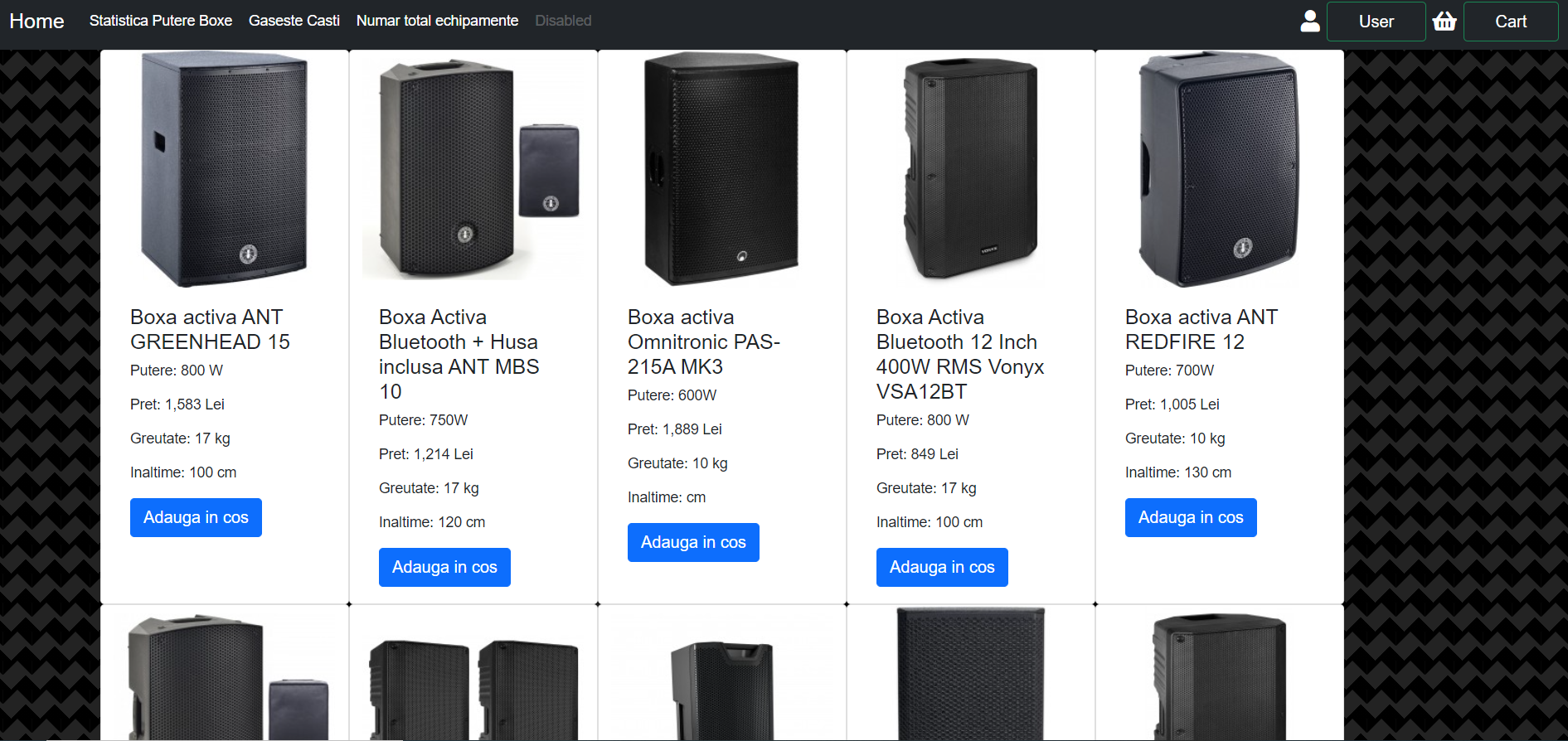
routes/index.js – conexiune baze de date , mapare rute website ,verificare login, filtre

partials/header.hbs – navbar

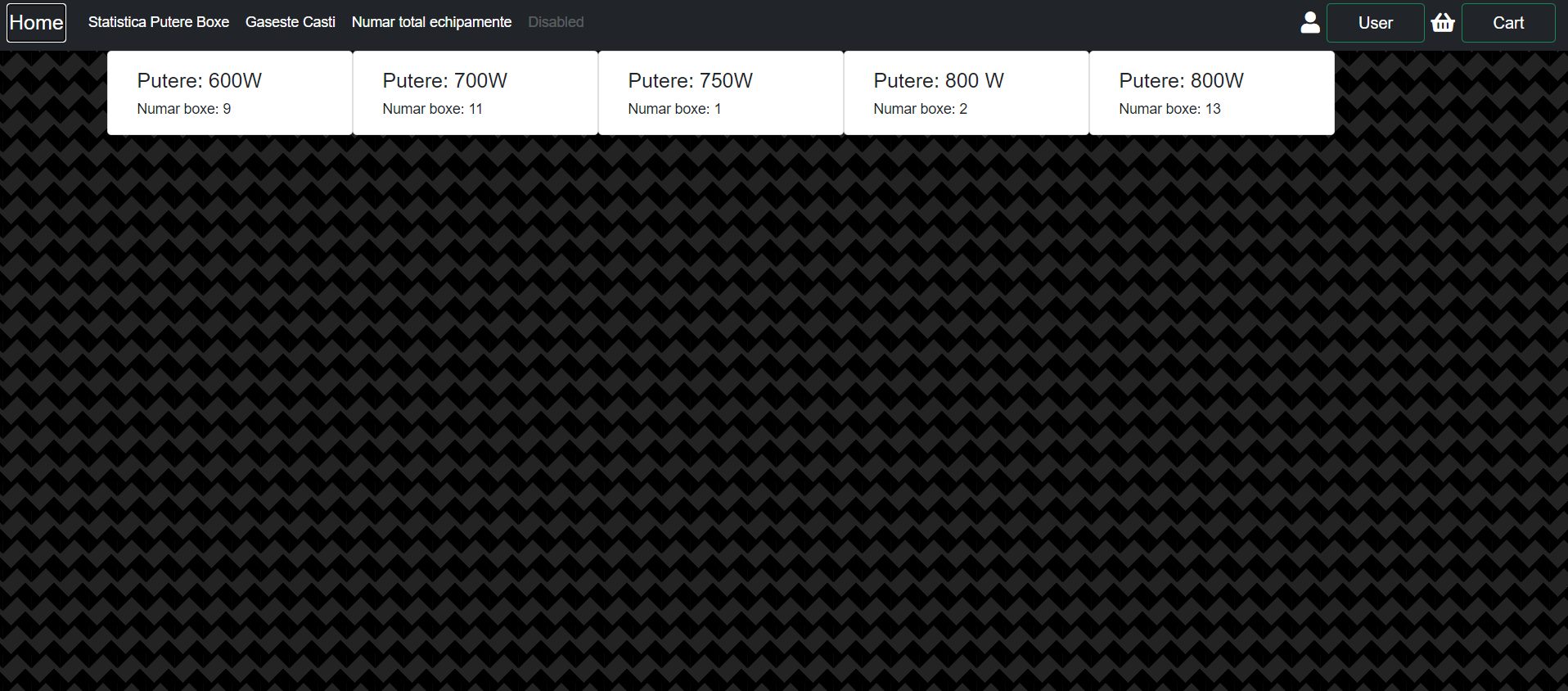
shop/amplificatoare – pagina cu amplificatoare disponibile



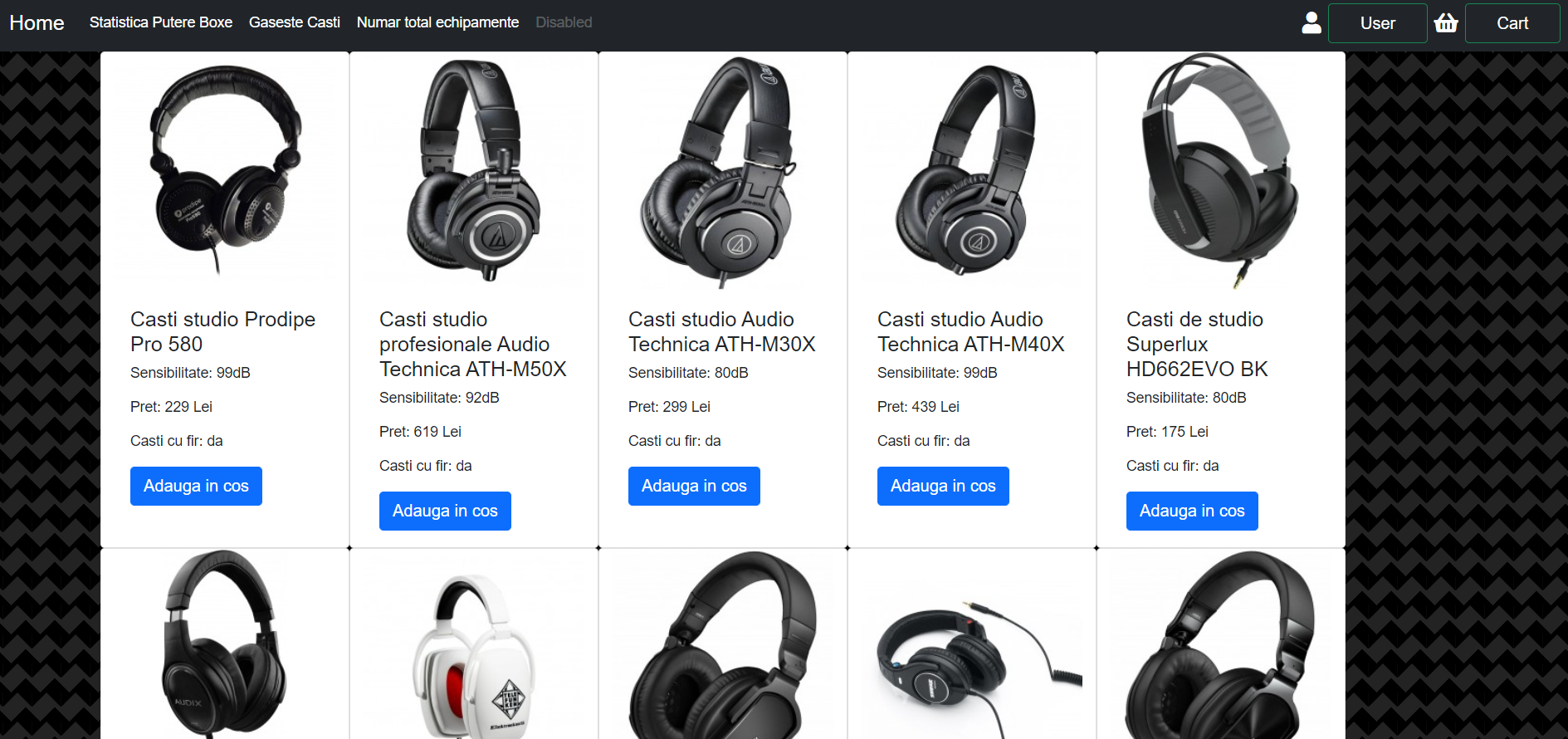
shop/boxe – pagina cu boxe disponibile



shop/boxe\_putere – statistica boxe – putere

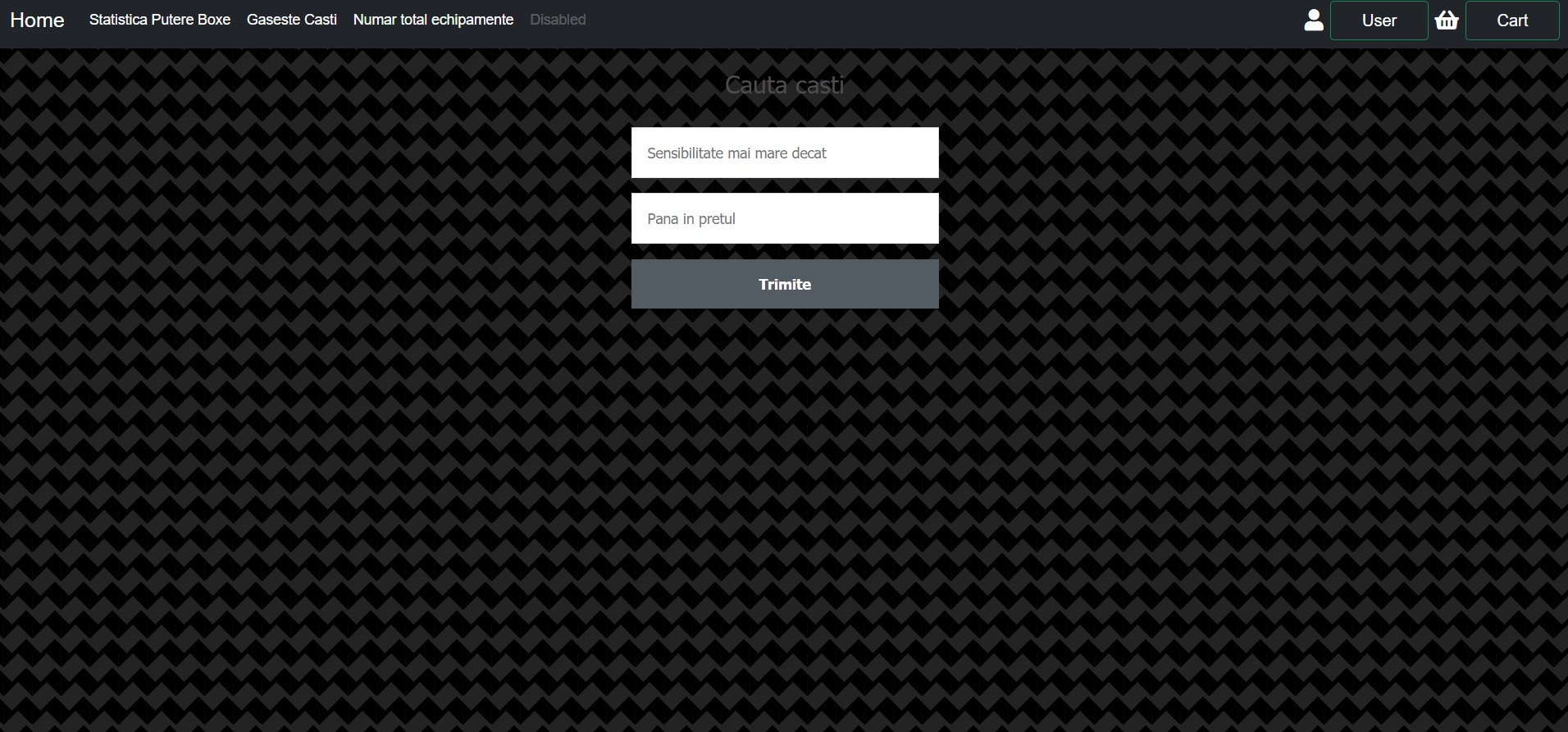


shop/casti – pagina cu castile disponibile

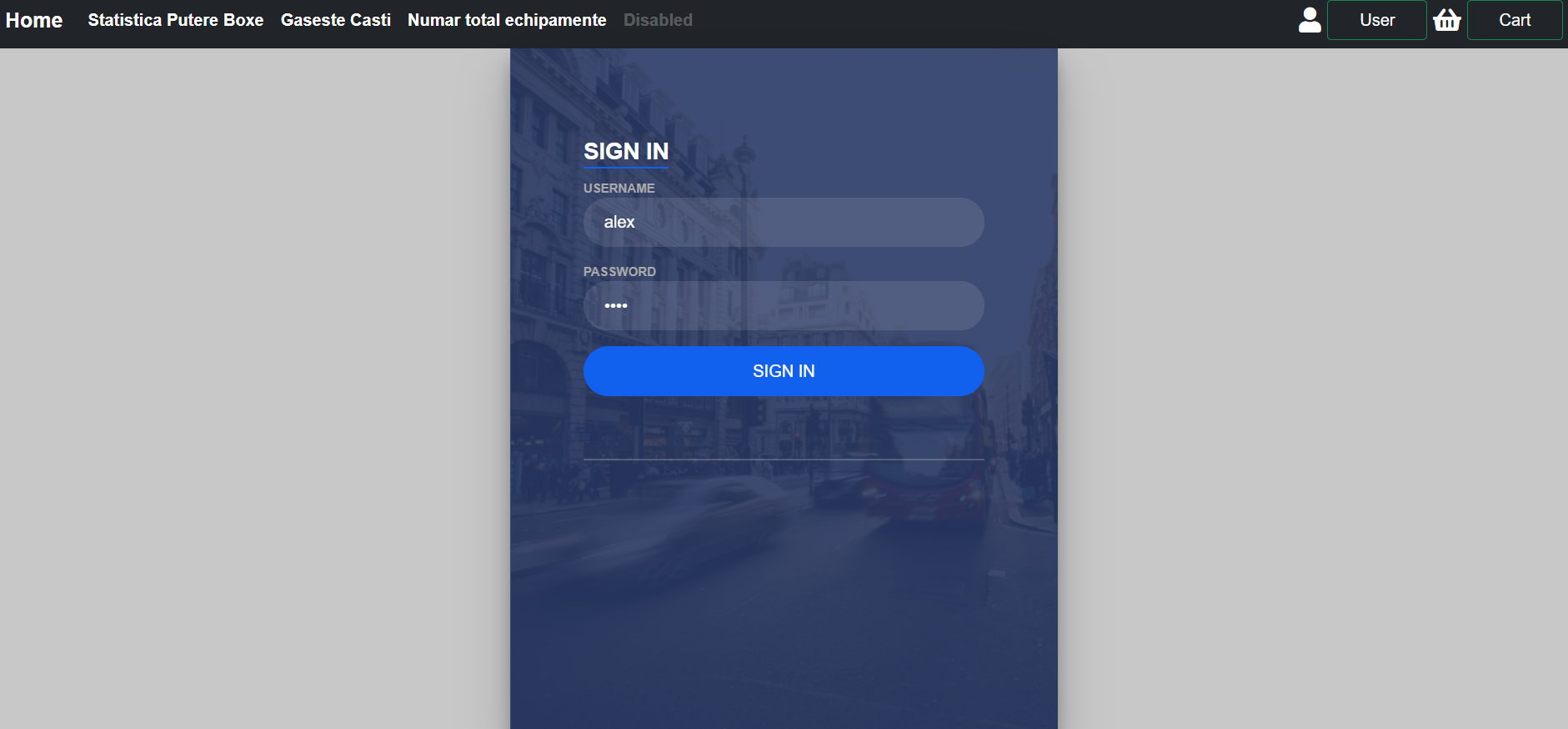


shop/dupa\_filtru – pagina cu castile filtrate dupa sensibilitate sip ret

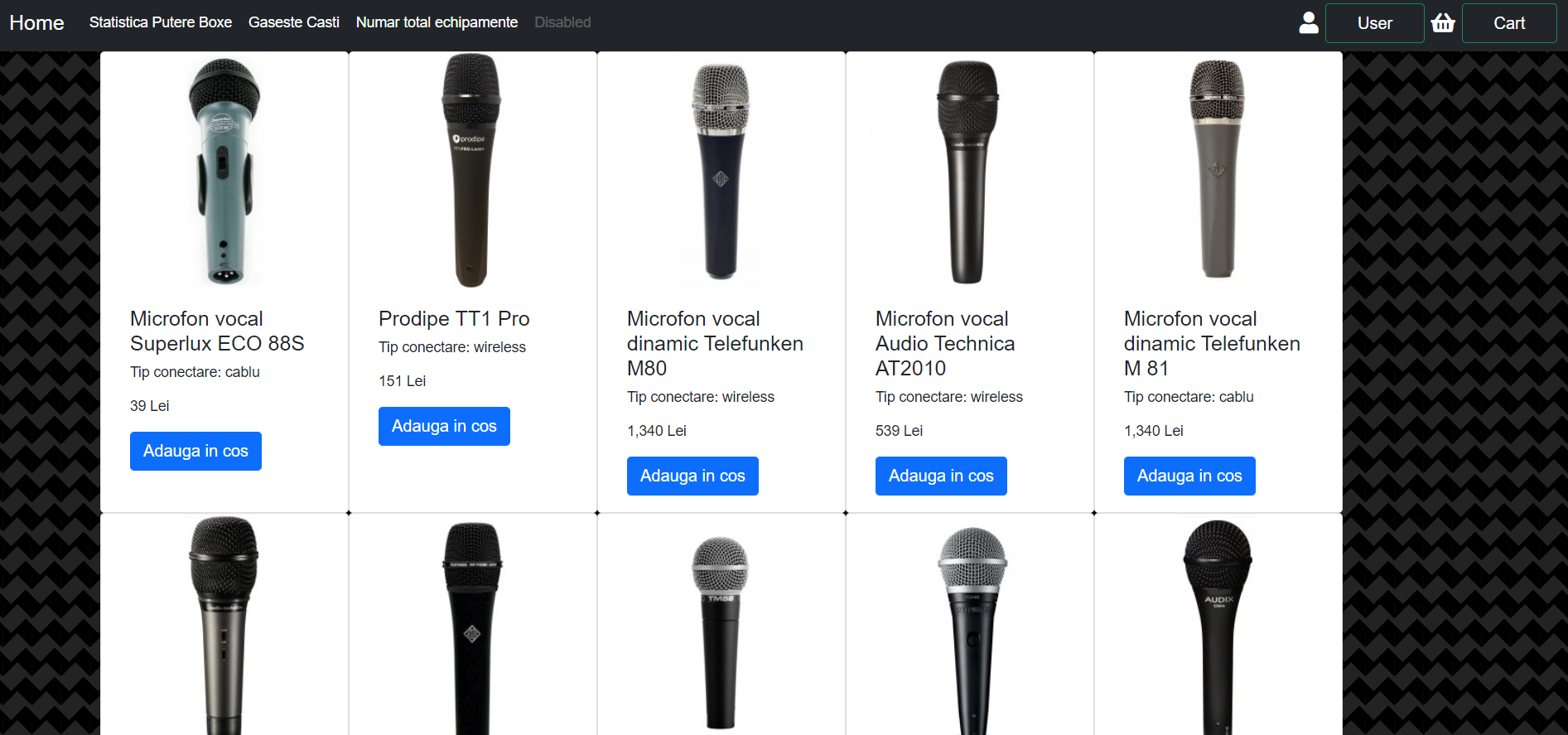
shop/filtru – alegere filtre pentru casti



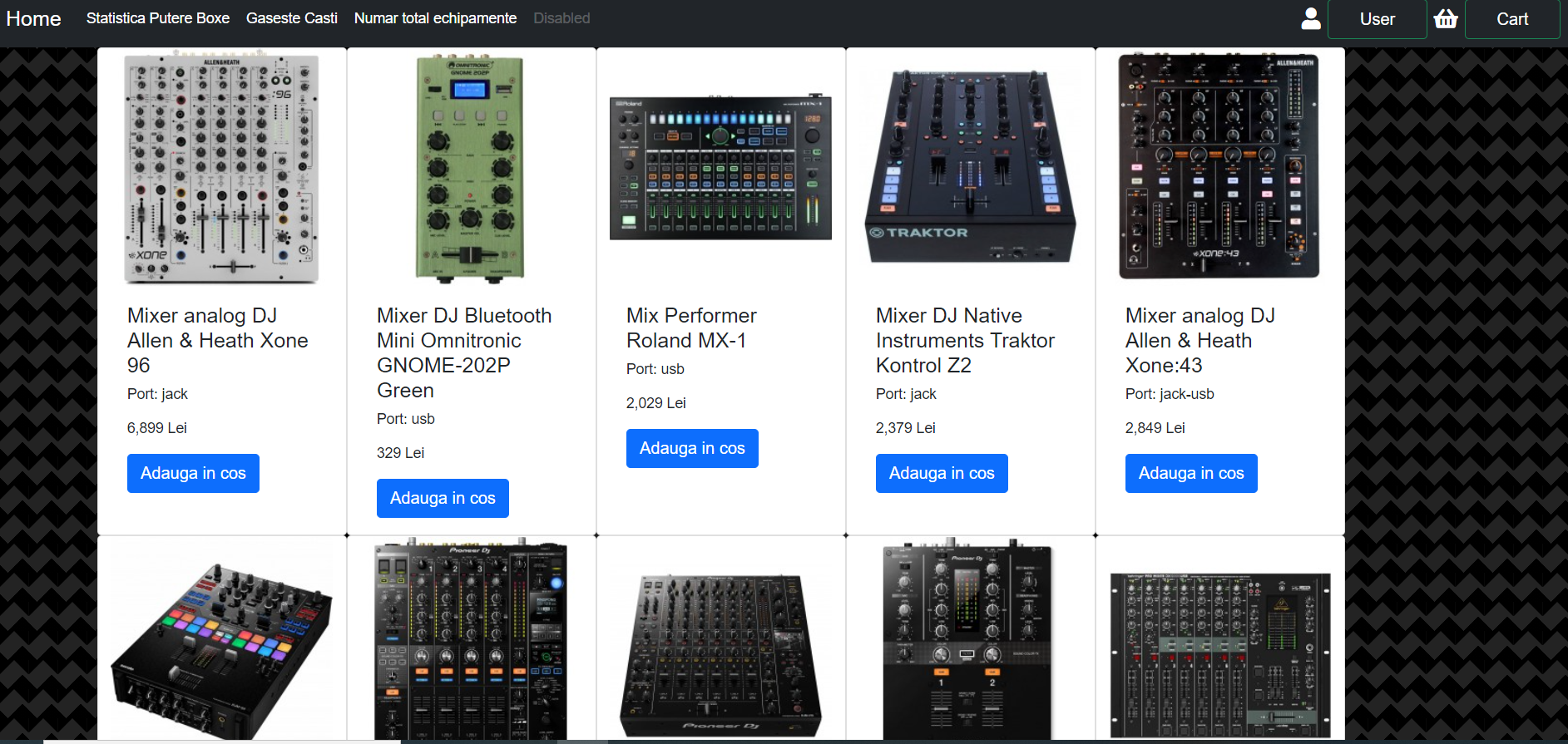
shop/login – pagina login



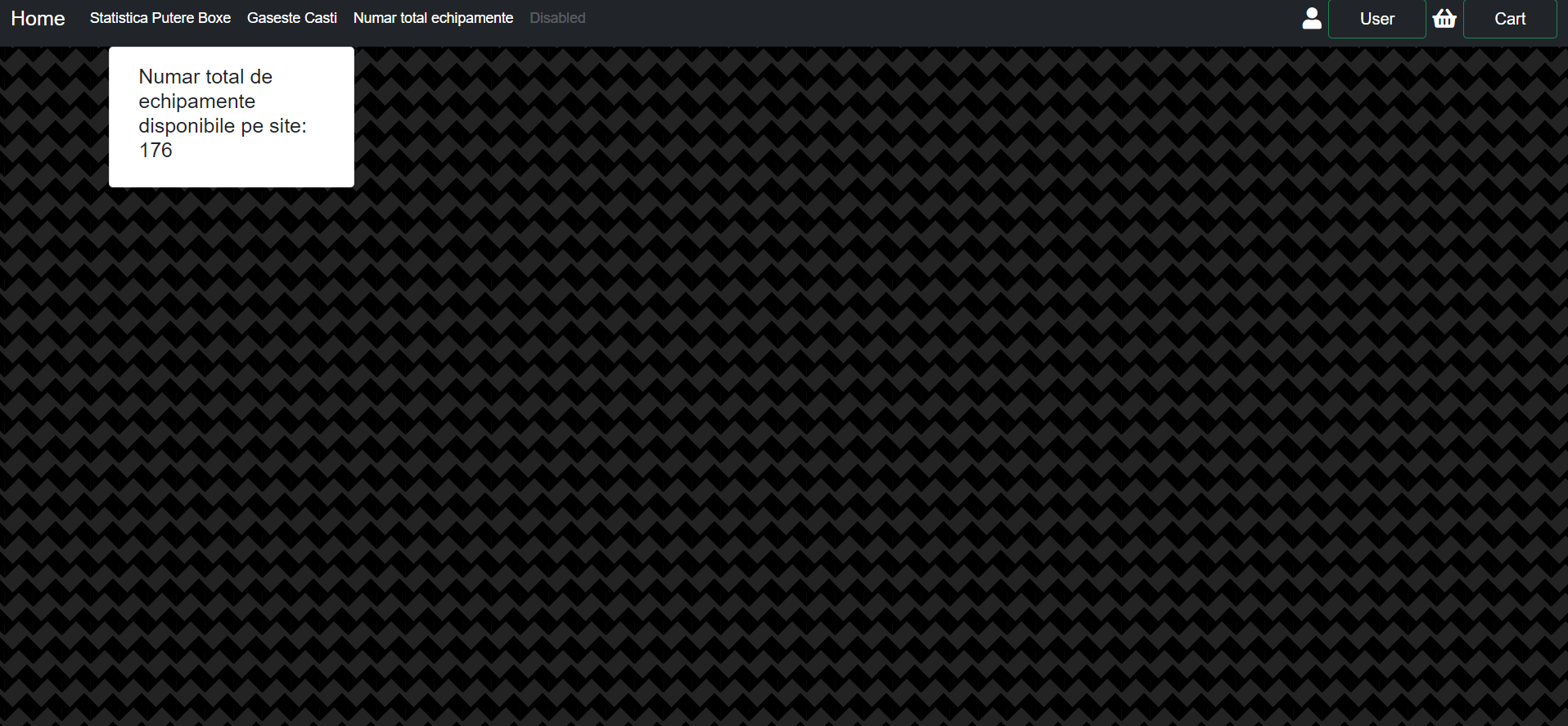
shop/microfoane – pagina cu microfoanele disponibile



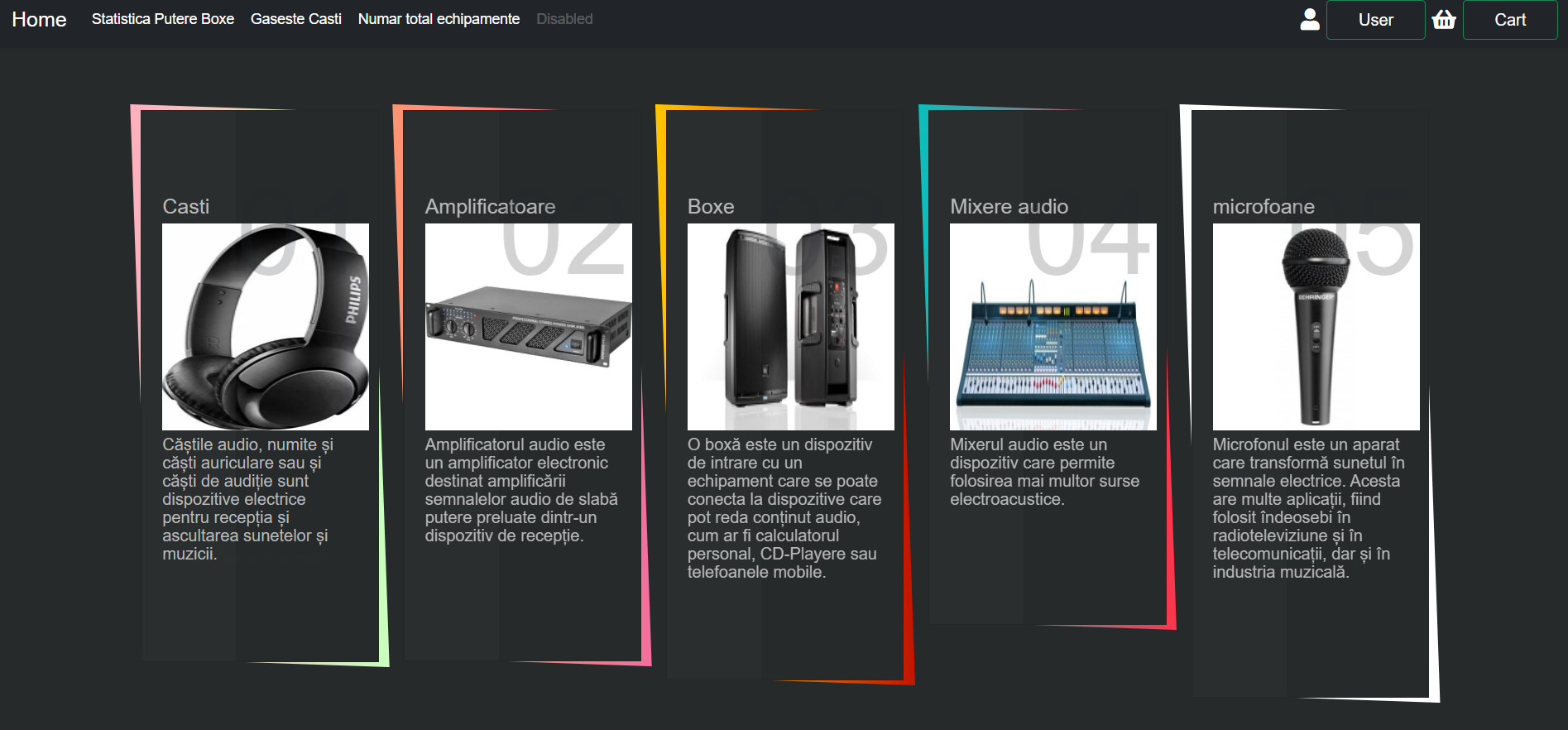
shop/mixere – pagina cu mixerele audio disponibile



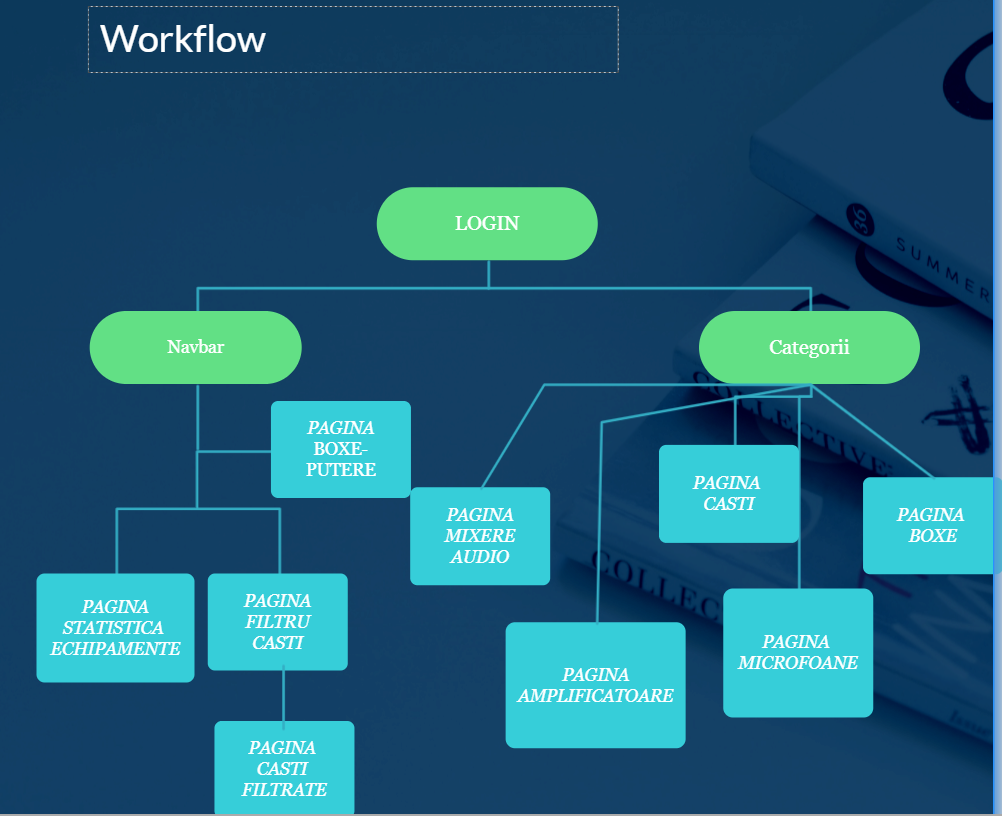
shop/numar total – statistica numarul total de echipamente disponibile pe website



shop/toate – pagina cu categoriile disponibile

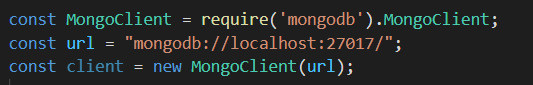


**WORKFLOW**



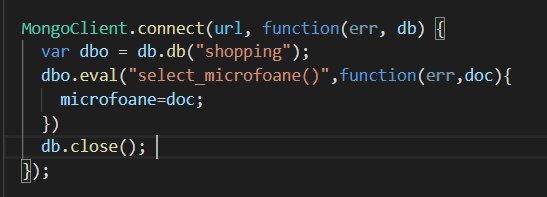
**CONEXIUNE BAZA DE DATE:**

Conexiunea cu baza de date se face in node js



Comunicarea cu baza de date se face prin functii apelate(mai jos shopping este baza de date,

Select\_microfoane() – functia apelata, doc – valoare returnata)



**Concluzii:**

Aplicatia face vizualizarea datelor mult mai usoara ,avand si statistici si filtre asupra produselor. Poate fi imbunatatita si extinsa mai departe.

**Bibliografie:**

<https://getbootstrap.com/>

https://stackoverflow.com/

<https://www.mongodb.com/>