

Dokumentacija

WebShop

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Korisnički zahtjev

Razviti aplikaciju za prodaju elektronske robe. Elektronska roba je razvrstana po kategorijama. Kategorije mogu imati svoje potkategorije. Ne postoji granica za broj potkategorija. Svaka kategorija ima jedinstveni naziv. Svaka kategorija ima popis određenih osobina koje može imati svaka roba koja toj kategoriji pripada. Osobine se koriste i kao parametri za pretragu robe. Roba može da pripada samo jednoj kategoriji i ima svoj naziv, kratak opis, detaljan opis, jednu ili više fotografija, kao i vrijednosti za jednu ili više osobina kategorije kojoj roba pripada. Roba ne može imati više vrijednosti za istu osobinu. Za svaku robu se vodi evidencija o promjenama cijena i na web aplikaciji se za svaku robu prikazuje najnovija cijena robe. Web aplikacija predviđa mogućnost isticanja određene robe na početnoj stranici u dva oblika. Prvi oblik je prikaz robe koja je obilježena kao promovisana, a drugi je prikaz najnovije dodane robe u ponudu prodavnice. Samo administratori, koji se na portal prijavljuju sa pristupnim parametrima mogu da uređuju kategorije, osobine, robu, fotografije i da imaju uvid u narudžbe. Ulogovani korisnici mogu da pregledaju robu po kategorijama, mogu da vrše pretragu sve robe, kao i pretragu robe po osobinama unutar odabrane kategorije, korištenjem mogućnosti filtriranja. Da bi posjetioc mogli da izvrše naručivanje robe, moraju da budu prijavljeni na aplikaciju. Posjetioc mogu da registriraju korisnički nalog, da se prijave sa svojim postojećim pristupnim parametrima. Prilikom registracije, posjetilac mora da navede svoje lične podatke, kontakt, adresu stanovanja i željene pristupne parametre. Nije moguće registrovati više naloga sa istom adresom elektronske pošte. Kada se posjetilac prijavi na aplikaciju sa svojim pristupnim parametrima, on kao prijavljeni korisnik može da dodaje robu u korpu, da pregleda listu svojih prethodnih narudžbi. Prilikom dodavanja robe u korpu, može da izabere količinu. Ako u korpi već postoji ista roba, ne dodaje se ponovo, već se količina već dodane robe uveća za novu količinu. U bilo kojem trenutku, prijavljeni korisnik može da pregleda sadržaj korpe, da izbriše neke stavke iz nje ili da promijeni količinu odabrane robe u korpi. Ukoliko želi, može da izvrši naručivanje robe iz korpe. Administratori, koji mogu da vide spisak dospjelih narudžbi, mogu da vide detalje narudžbe i da narudžbu obilježe statusom. Mogući statusi su da je narudžba poslana, odbijena, prihvaćena ili, na kraju, realizovana. Statuse može vidjeti i prijavljeni korisnik u prikazu svojih narudžbi.

Backend: Node.js (Nest.js aplikacija)

Baza podataka: MySQL

Za test backend-a korišten Postman.

Frontend: React.js

ULOGA ADMINISTRATOR-A

1. Prijava administratora

Administrator Login User Login Register

Administrator Login

Username: test

Password: *****

Log in

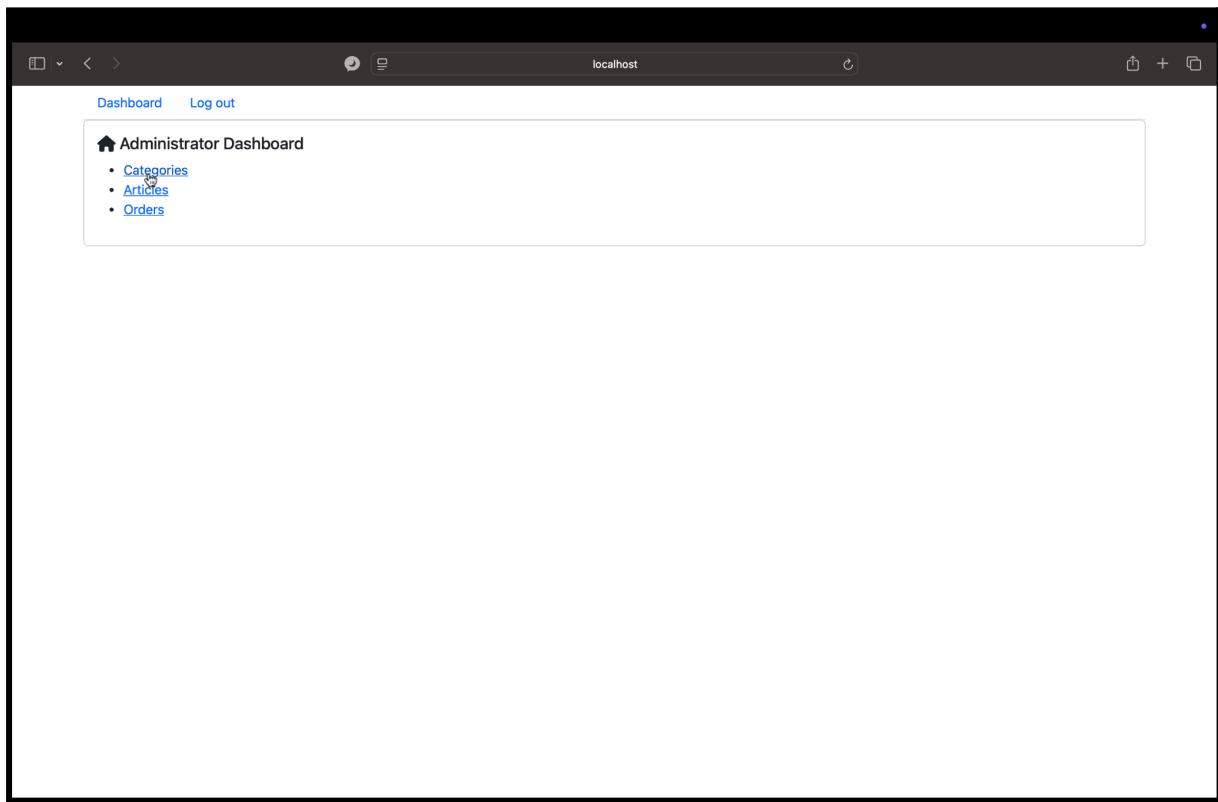
2. Početna stranica za ulogu administratora

Dashboard Log out

Administrator Dashboard

- Categories
- Articles
- Orders

3. Klikom na “Categories” administrator se preusmjerava na listu svih kategorija.

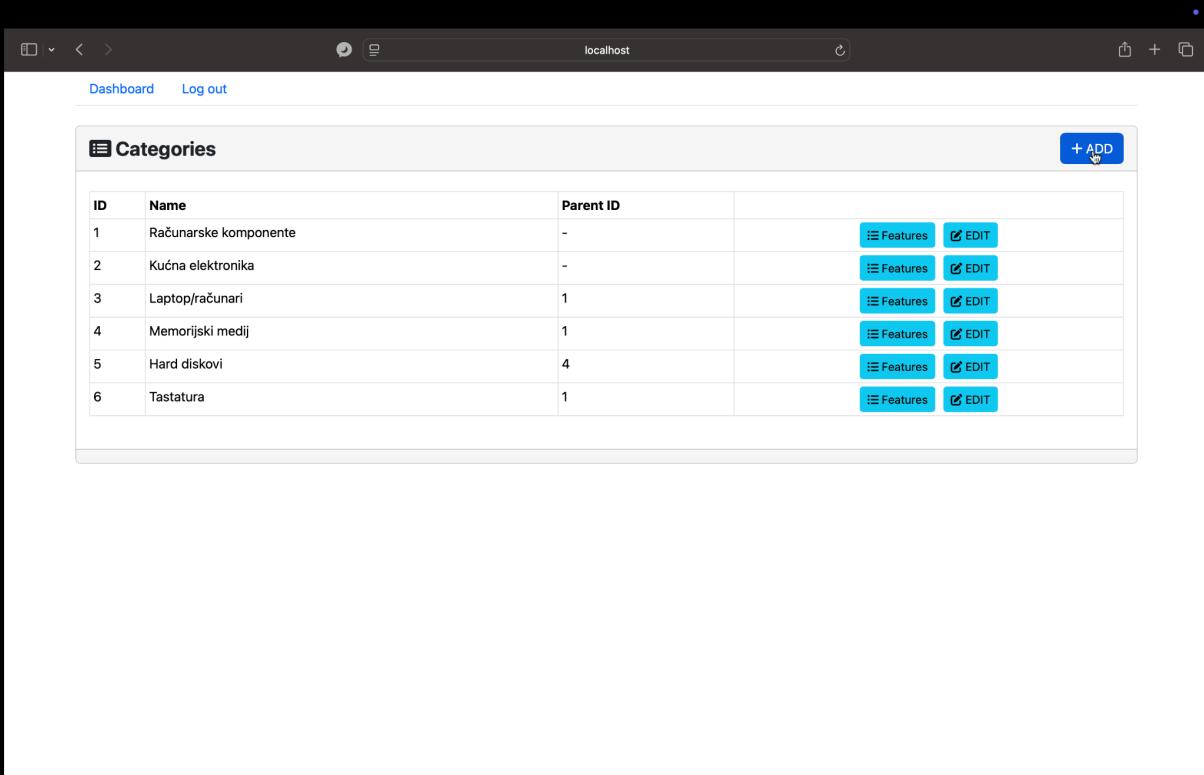


4. Administrator ima mogućnost da odabere “ADD” kako bi dodao novu kategoriju, “EDIT” da uredi neku od već postojećih kategorija ili da pregleda “FEATURES” koji pripadaju željenoj kategoriji.

A screenshot of a web browser window titled "localhost". The address bar shows "localhost". The page content is the "Categories" list. At the top right is a blue button labeled "+ ADD". Below it is a table with columns: "ID", "Name", and "Parent ID". The table contains the following data:

ID	Name	Parent ID		
1	Računarske komponente	-		
2	Kućna elektronika	-		
3	Laptop/računari	1		
4	Memorijski medij	1		
5	Hard diskovi	4		
6	Tastatura	1		

5. Klikom na opciju “ADD” administrator dobija formu koju treba da popuni kako bih dodao novu kategoriju, odnosno dobija formu sa svim elementima koji čine jednu kategoriju.

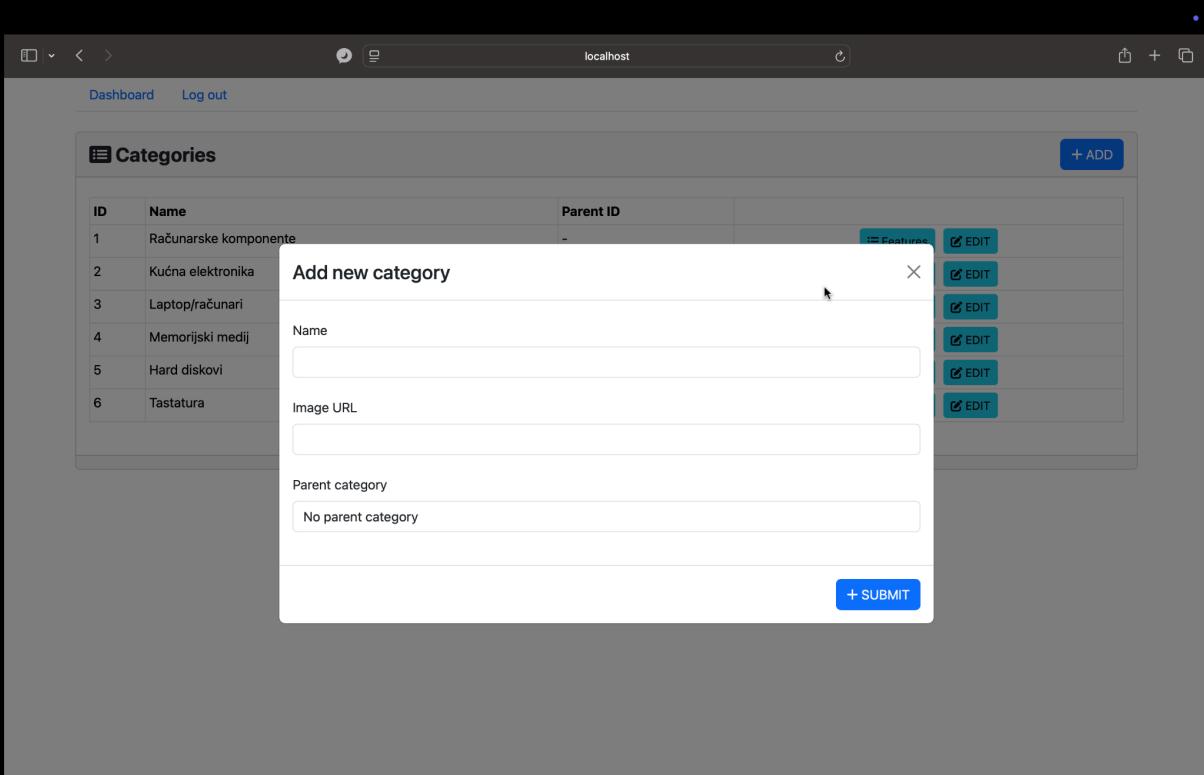


A screenshot of a web application interface titled "Categories". The page shows a table with columns "ID", "Name", and "Parent ID". The data includes:

ID	Name	Parent ID
1	Računarske komponente	-
2	Kućna elektronika	-
3	Laptop/računari	1
4	Memorijski medij	1
5	Hard diskovi	4
6	Tastatura	1

Each row has a "Features" and an "EDIT" button. A blue "ADD" button is located in the top right corner of the table header area.

6. Kada se popuni forma, klikom na “SUBMIT” sprema se nova kategorija.



A screenshot of the same web application showing a modal dialog titled "Add new category". The dialog contains fields for "Name" (with a placeholder "Category name"), "Image URL" (empty), and "Parent category" (with a placeholder "No parent category"). A blue "SUBMIT" button is at the bottom right of the dialog.

7. Klikom na “FEATURES” korisnik se preusmjerava na pregled svih osobina koje su karakteristične za datu kategoriju.

The screenshot shows a web application interface with a dark header bar containing browser controls, a title 'localhost', and a user menu. Below the header is a navigation bar with 'Dashboard' and 'Log out' links. The main content area has a title 'Categories' with a 'Features' icon. A table lists six categories:

ID	Name	Parent ID	Actions
1	Računarske komponente	-	Features EDIT
2	Kućna elektronika	-	Features EDIT
3	Laptop/računari	1	Features EDIT
4	Memorijski medij	1	Features EDIT
5	Hard diskovi	4	Features EDIT
6	Tastatura	1	Features EDIT

A blue '+ ADD' button is located in the top right corner of the table header.

8. Za svaku osobinu neke kategorije, imamo mogućnost da klikom na “ADD” dodamo novu osobinu ili da klikom na “EDIT” uredimo naziv odabrane osobine.

The screenshot shows a web application interface with a dark header bar containing browser controls, a title 'localhost', and a user menu. Below the header is a navigation bar with 'Dashboard' and 'Log out' links. The main content area has a title 'Back to categories' with a 'Features' icon, followed by the text 'Features (Category ID: 2)'. A table lists two features:

ID	Name	Actions
4	Naponi	Edit
14	Dozvoljena jacina struje	Edit

A blue '+ ADD' button is located in the bottom right corner of the table header.

9. Uređivanje feature-a za određenu kategoriju.

ID	Name	
4	Naponi	Edit
14	Dozvoljena jacina struje	Edit

10. Forma za uređivanje feature-a.

Edit feature

Name

Napajanje

[Edit feature](#)

Klikom na "Edit feature" promjene su spremljene.

11. Klikom na opciju “EDIT” pojavljuje se forma za uređivanje kategorije.

The screenshot shows a table titled "Categories" with columns "ID", "Name", and "Parent ID". The rows represent the following data:

ID	Name	Parent ID
1	Računarske komponente	-
2	Kućna elektronika	-
3	Laptop/računari	1
4	Memorijski medij	1
5	Hard diskovi	4
6	Tastatura	1

Each row contains a "Features" button and an "EDIT" button. The "EDIT" button for the first row (ID 1) is highlighted with a cursor. A blue "ADD" button is located in the top right corner of the table area.

12. Forma za uređivanje kategorije

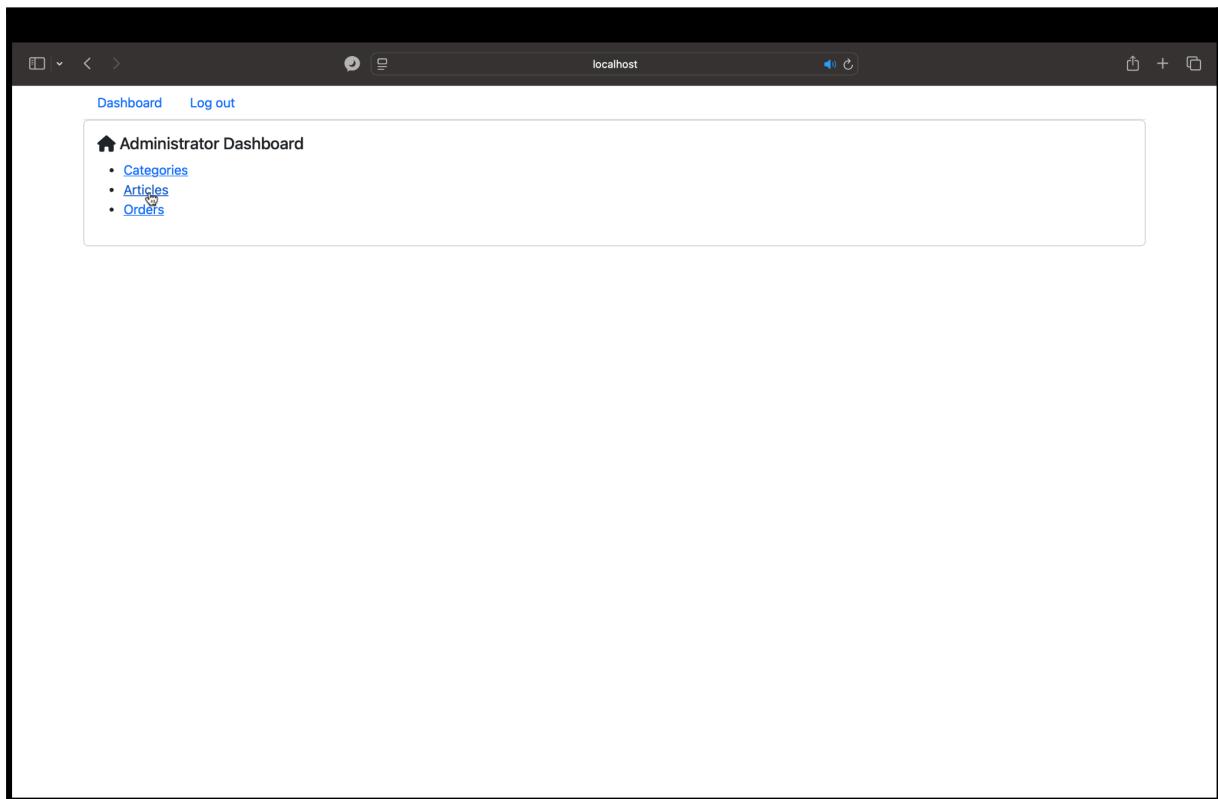
The screenshot shows a modal dialog titled "Edit category" over a background of the same "Categories" table. The modal contains the following fields:

- Name: Računarske komponente
- Image URL: assets/pc.jpg
- Parent category: No parent category

A blue "SUBMIT" button is located at the bottom right of the modal.

Klikom na dugme “SUBMIT” Vaše promjene su spremljene.

13. Klikom na "Articles" bivate preusmjereni na spisak svih artikala.



14. Moguće radnje nad artiklom su dodavanje novog artikla, uređivanje artikla, te dodavanje i brisanje fotografija artikla.

A screenshot of a web browser window titled 'localhost'. The address bar shows 'localhost'. The page content is the 'Articles' list page. At the top left are links for 'Dashboard' and 'Log out'. At the top right is a blue button labeled '+ NEW ARTICLE'. Below that is a table with the following data:

ID	Name	Category	Status	Promoted	Price	Options
1	ACME HD11	Hard diskovi	available	YES	57.11 BAM	
4	Apple Macbook Air M1	Laptop/računari	available	YES	1800.00 BAM	
5	ACME HD12	Hard diskovi	available	YES	59.15 BAM	
6	ACME HDDY	Hard diskovi	available	-	54.56 BAM	
7	ACME HDDX	Hard diskovi	available	YES	54.56 BAM	
8	ACME HD13	Hard diskovi	available	-	54.56 BAM	
9	Apple Macbook Air M2	Laptop/računari	available	-	1900.00 BAM	
10	AppleMacbook Pro M1	Laptop/računari	hidden	YES	100.00 BAM	

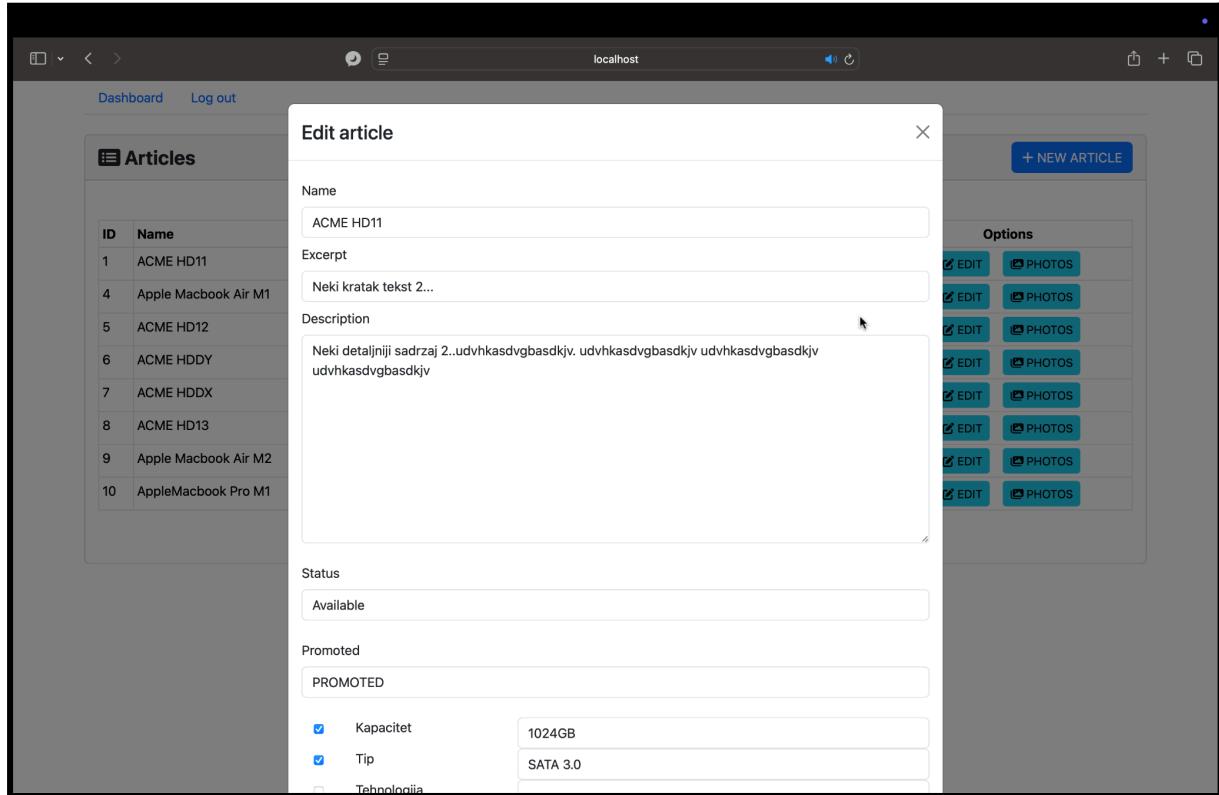
15. Klikom na “NEW ARTICLE” prikazuje se forma.

The screenshot shows a modal window titled "Add new article". Inside the modal, there are several input fields: "Name" (empty), "Category ID" (set to "Računarske komponente"), "Excerpt" (empty), "Description" (empty), "Article photo" (button labeled "Odaberi datoteku" with the message "datoteka nije odabrana"), and "Price" (set to "0,01"). To the right of the modal, a sidebar titled "Options" lists ten rows, each with an "EDIT" button and a "PHOTOS" button. The background of the page shows a table titled "Articles" with columns "ID" and "Name", containing rows from 1 to 10.

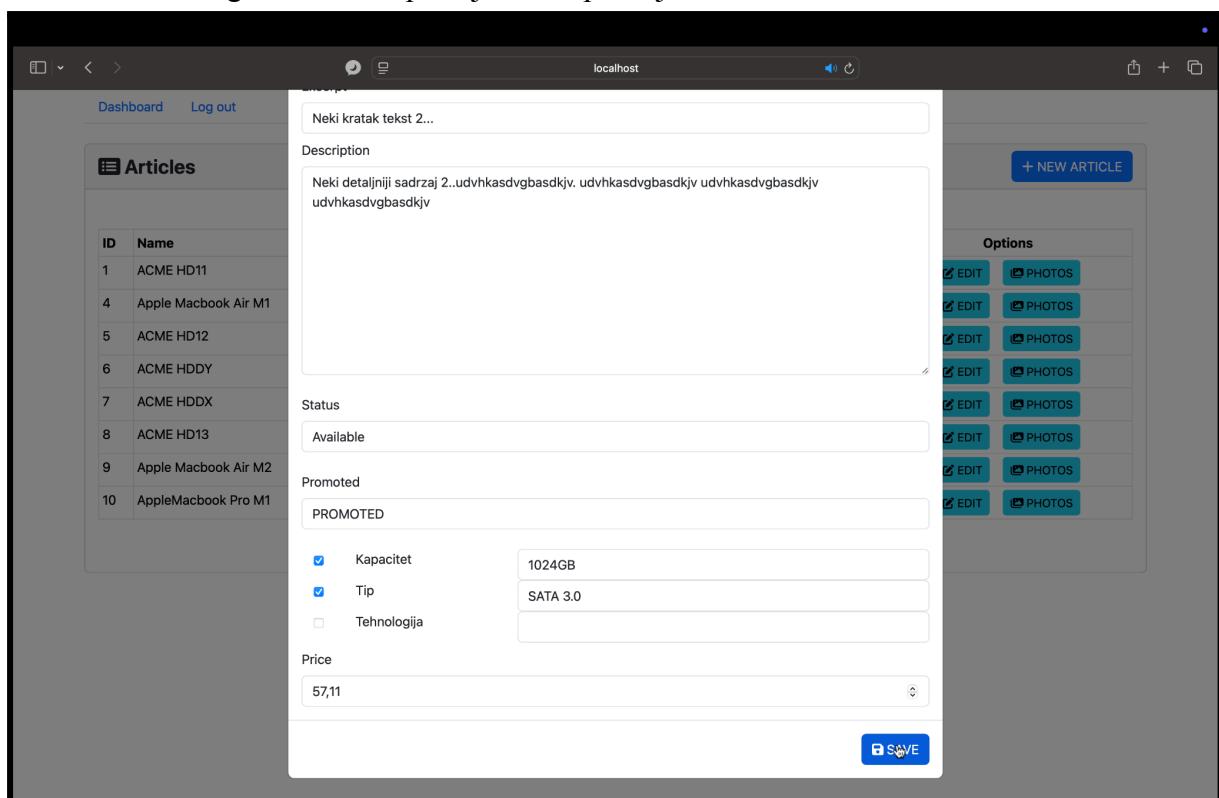
16. Kada ispravno popunimo formu, klikom na “SUBMIT” biti će dodan novi artikal. Ukoliko formu ispunimo sa neispravnim podacima, biti će prikazana poruka gdje je greška napravljena (koja ograničenja nisu ispoštovana).

The screenshot shows the same "Add new article" modal as before, but with a red validation error message at the bottom: "Greška: Neispravno uneseno vrijednost u polje 'Name'." This message indicates that the "Name" field is required and must be filled. The other fields remain the same as in the previous screenshot.

17. Klikom na "EDIT" pojavljuje se forma sa unaprijed definisanim sadržajem za dati artikal koji imamo mogućnost da promijenimo.



18. Klikom na dugme "SAVE" promjene su spremljene.



19. Klikom na "PHOTOS" imamo mogućnost da dodamo novu fotografiju ili, ukoliko artikal ima 2 ili više fotografija, da obrišemo fotografiju. Svaki artikal mora da ima barem jednu fotografiju, tako da nije moguće izbrisati posljednju koja je ostala.

The screenshot shows a web application interface titled 'localhost'. At the top, there are navigation links for 'Dashboard' and 'Log out'. Below this is a header bar with a 'Articles' icon and a '+ NEW ARTICLE' button. The main content area displays a table with the following data:

ID	Name	Category	Status	Promoted	Price	Options
1	ACME HD11	Hard diskovi	available	YES	57.11 BAM	<input checked="" type="checkbox"/> EDIT  PHOTOS
4	Apple Macbook Air M1	Laptop/računari	available	YES	1800.00 BAM	<input checked="" type="checkbox"/> EDIT  PHOTOS
5	ACME HD12	Hard diskovi	available	YES	59.15 BAM	<input checked="" type="checkbox"/> EDIT  PHOTOS
6	ACME HDDY	Hard diskovi	available	-	54.56 BAM	<input checked="" type="checkbox"/> EDIT  PHOTOS
7	ACME HDDX	Hard diskovi	available	YES	54.56 BAM	<input checked="" type="checkbox"/> EDIT  PHOTOS
8	ACME HD13	Hard diskovi	available	-	54.56 BAM	<input checked="" type="checkbox"/> EDIT  PHOTOS
9	Apple Macbook Air M2	Laptop/računari	available	-	1900.00 BAM	<input checked="" type="checkbox"/> EDIT  PHOTOS
10	AppleMacbook Pro M1	Laptop/računari	hidden	YES	100.00 BAM	<input checked="" type="checkbox"/> EDIT  PHOTOS

20. Dodavanje i brisanje fotografije.

The screenshot shows a 'Photos' page for an article. At the top, there is a 'Back to articles' link and a 'Photos' title. Below this, there are two images of hard drives, each with a red 'X DELETE' button below it. The page also includes a section for adding new photos and a file upload input field.

Back to articles

Photos

 X DELETE

 X DELETE

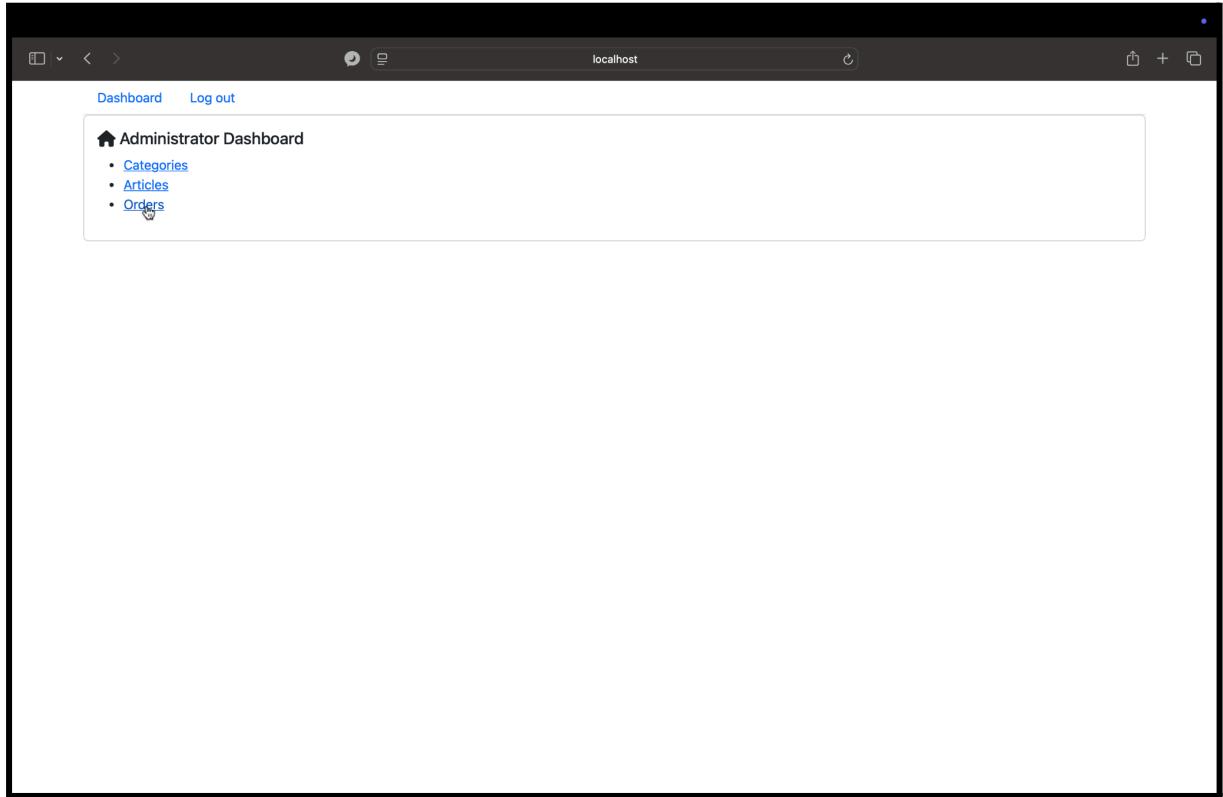
Add a new photo for this article

Add article photo

Odaberi datoteku datoteka nije odabrana

+ UPLOAD

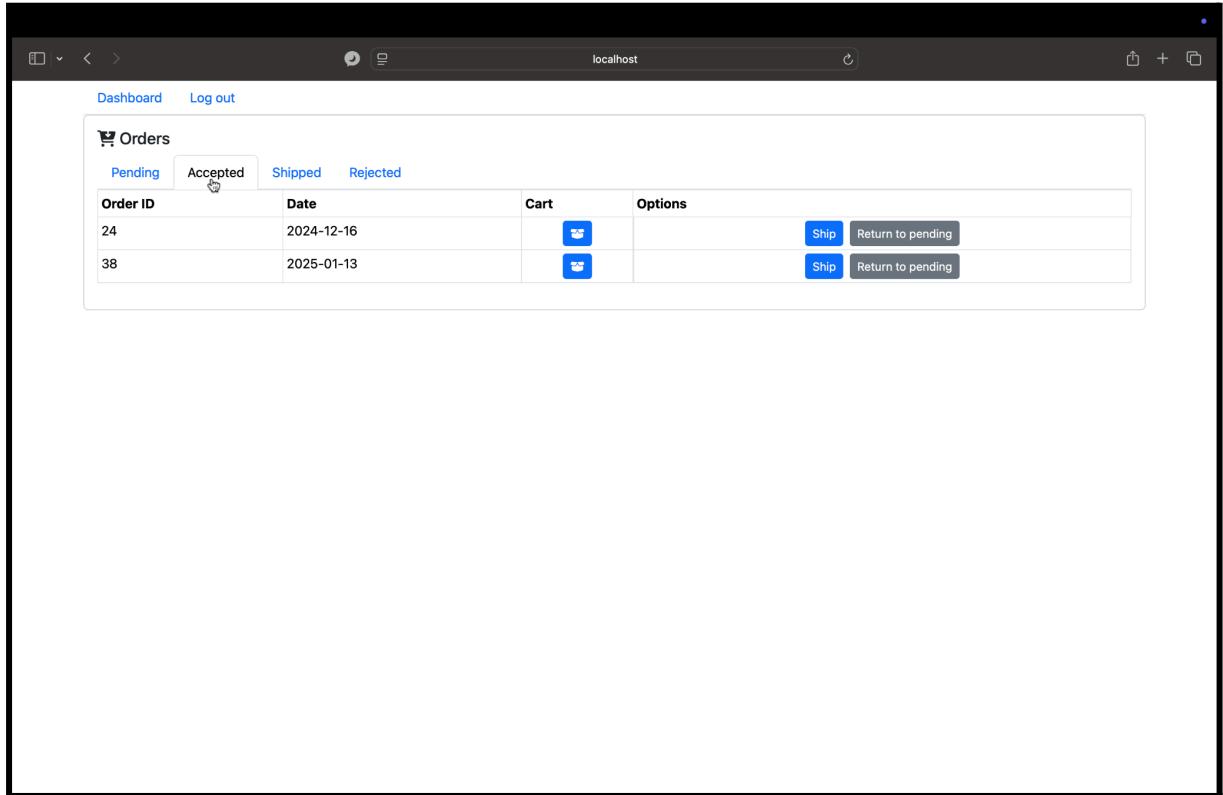
21. Klikom na "Orders" imamo pregled svih narudžbi sortiranih po trenutnom statusu, gdje imamo mogućnost da promijenimo status narudžbe i da pregledamo korpu te narudžbe.



22. Ukoliko je narudžba sa statusom "pending", možemo da prihvativmo ili odbijemo narudžbu.

Orders				
	Pending	Accepted	Shipped	Rejected
Order ID	Date	Cart	Options	
25	2024-12-18			
27	2024-12-18			
28	2024-12-18			
29	2024-12-18			
30	2024-12-19			
31	2024-12-19			
32	2024-12-20			
33	2024-12-30			
36	2025-01-02			

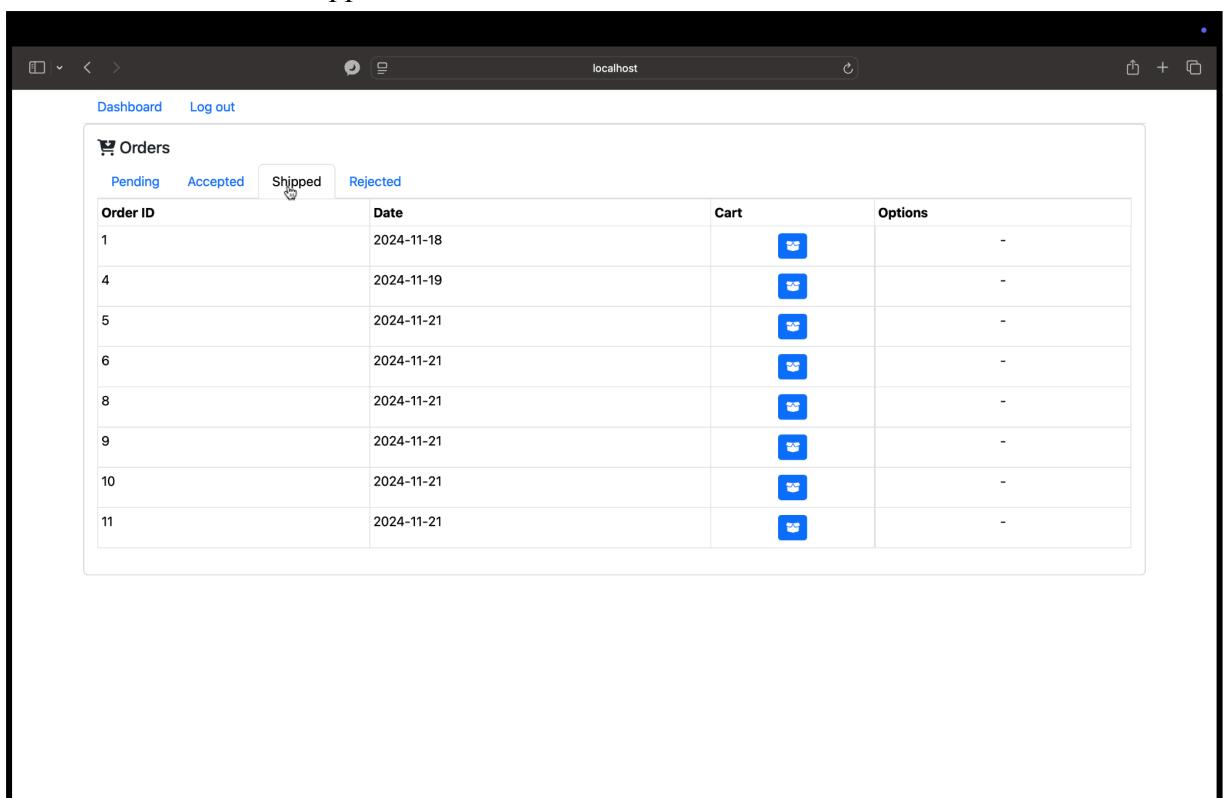
23. Narudžbe statusa "accepted" mogu da se pošalju ili da se vrate u poslane (da se poništi prihvatanje).



The screenshot shows a web browser window with a dark header bar containing icons for back, forward, search, and refresh, along with the URL 'localhost'. Below the header is a navigation bar with 'Dashboard' and 'Log out' links. The main content area has a title 'Orders' with a shopping cart icon. Below it is a table with four columns: 'Order ID', 'Date', 'Cart', and 'Options'. At the top of the table are four tabs: 'Pending' (blue), 'Accepted' (orange, selected), 'Shipped' (green), and 'Rejected' (red). The table contains two rows of data:

Order ID	Date	Cart	Options
24	2024-12-16		Ship Return to pending
38	2025-01-13		Ship Return to pending

24. Narudžbe statusa "shipped".



The screenshot shows a web browser window with a dark header bar containing icons for back, forward, search, and refresh, along with the URL 'localhost'. Below the header is a navigation bar with 'Dashboard' and 'Log out' links. The main content area has a title 'Orders' with a shopping cart icon. Below it is a table with four columns: 'Order ID', 'Date', 'Cart', and 'Options'. At the top of the table are four tabs: 'Pending' (blue), 'Accepted' (orange), 'Shipped' (green, selected), and 'Rejected' (red). The table contains ten rows of data:

Order ID	Date	Cart	Options
1	2024-11-18		-
4	2024-11-19		-
5	2024-11-21		-
6	2024-11-21		-
8	2024-11-21		-
9	2024-11-21		-
10	2024-11-21		-
11	2024-11-21		-

25. Narudžbe statusa "rejected" mogu da se vrate na status "pending" samo ako nisu starije od 7 dana.

Order ID	Date	Cart	Options
3	2024-11-19		-
7	2024-11-21		-
12	2024-11-21		-
13	2024-11-21		-
14	2024-11-21		-
15	2024-11-21		-
16	2024-11-21		-
17	2024-11-21		-
18	2024-11-21		-
19	2024-11-21		-
20	2024-11-21		-
21	2024-11-21		-
22	2024-11-21		-
23	2024-12-16		-
26	2024-12-16		-

ULOGA USER-A

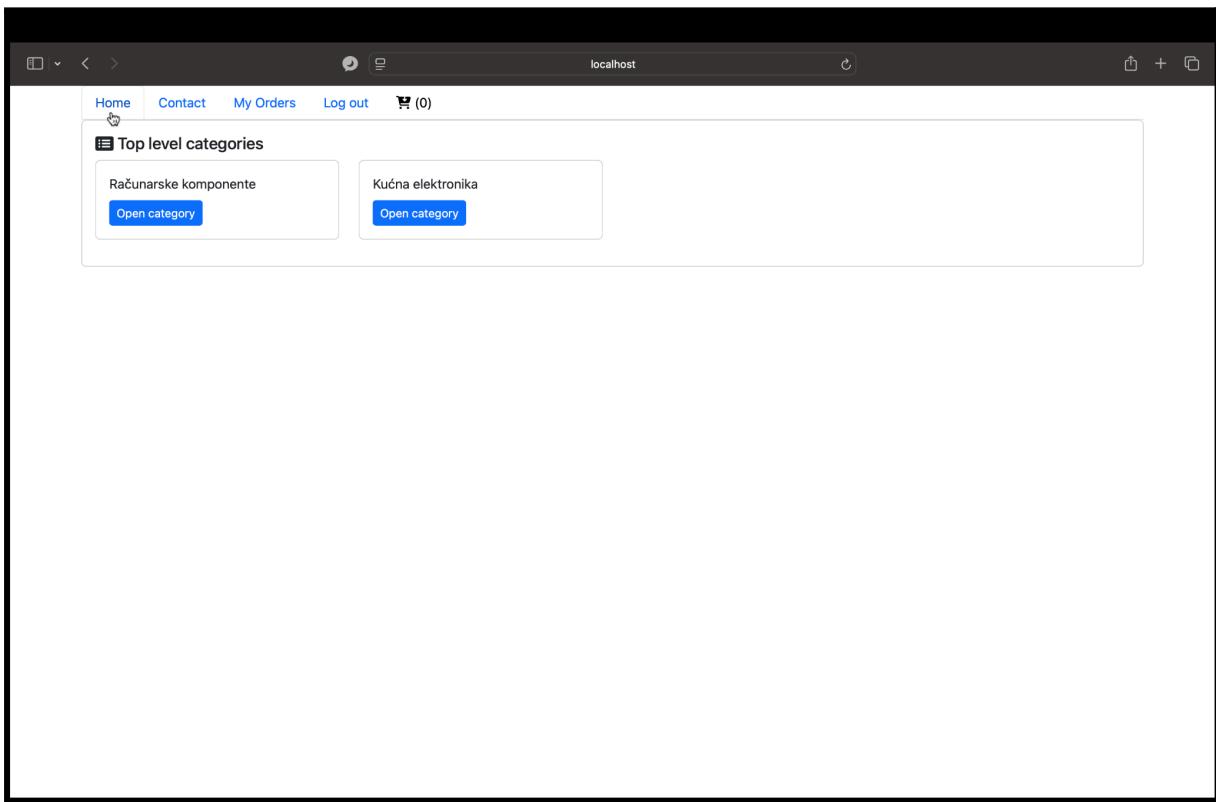
1. Prijava korisnika.

The screenshot shows a web browser window with a dark header bar. In the header, there are icons for back, forward, and search, followed by the URL 'localhost'. Below the URL, there are three navigation links: 'Administrator Login', 'User Login' (with a small mouse cursor icon indicating it's being clicked), and 'Register'. The main content area is a light-colored form with a title 'User Login'. It contains two input fields: 'E-mail:' with the placeholder 'test1234@test.ba' and 'Password:' with placeholder '*****'. Below these fields is a blue 'Log in' button.

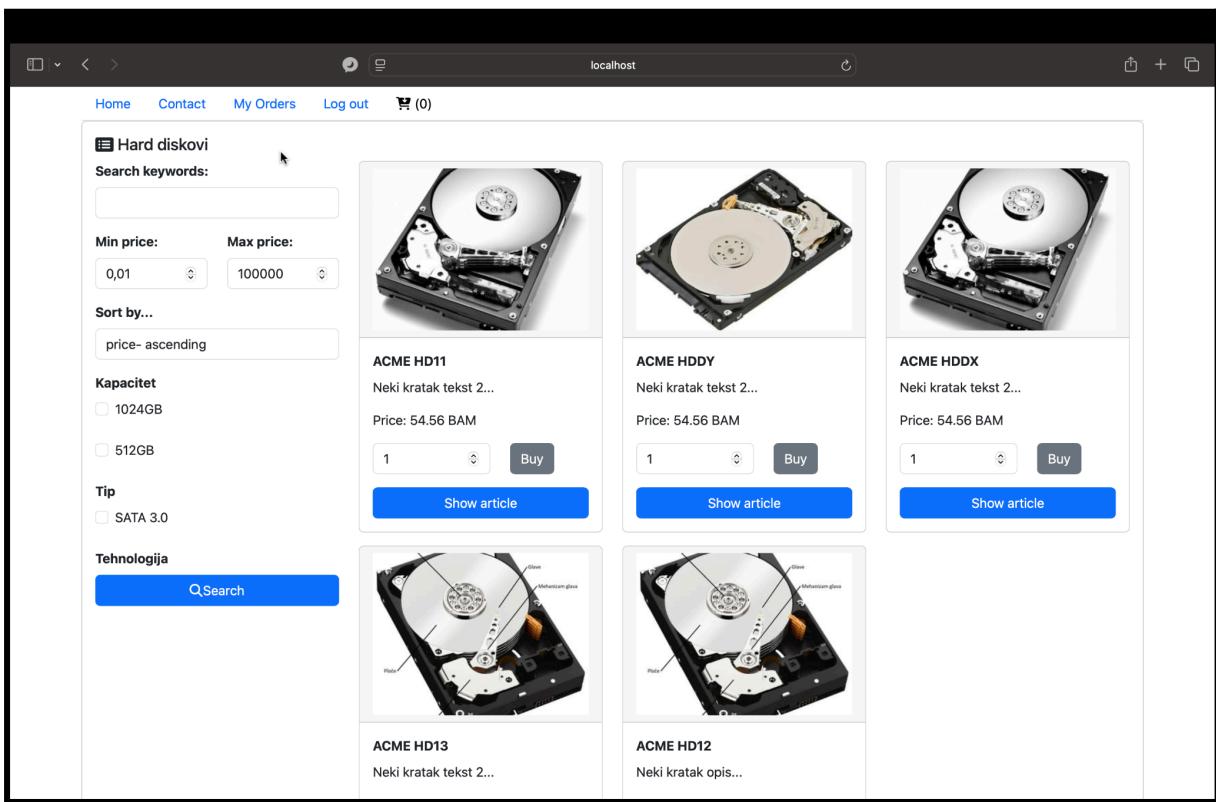
2. Nakon unošenja email-a i lozinke klikom na dugme "Log in" ili ENTER izvrši se prijava.

This screenshot is identical to the one above, showing the 'User Login' page. However, the 'E-mail:' field now contains the value 'test1234@test.ba' and the 'Password:' field contains '*****'. The 'Log in' button at the bottom of the form is now highlighted with a mouse cursor, indicating it is the target of the user's click.

3. Početna stranica user-a.



4. Prikaz artikala unutar kategorije.



5. Moguće je filtriranje artikala prema ključnim riječima (u obzir se uzimaju naziv i kratak opis), prema cijeni, feature-ima i moguće je sortiranje po nazivu ili cijeni u rastućem ili opadajućem redoslijedu.

Hard diskovi

Search keywords:

Min price: 0,01 Max price: 100000

Sort by... price- ascending

Kapacitet 1024GB 512GB

Tip SATA 3.0

Tehnologija

ACME HD11
Neki kratak tekst 2...
Price: 54.56 BAM
Buy

ACME HDDY
Neki kratak tekst 2...
Price: 54.56 BAM
Buy

ACME HDDX
Neki kratak tekst 2...
Price: 54.56 BAM
Buy

ACME HD13
Neki kratak tekst 2...
Show article

ACME HD12
Neki kratak opis...
Show article

6. Filtriranje

Hard diskovi

Search keywords: HDDX

Min price: 0,01 Max price: 100000

Sort by... price- ascending

Kapacitet 1024GB 512GB

Tip SATA 3.0

Tehnologija

ACME HDDX
Neki kratak tekst 2...
Price: 54.56 BAM
Buy

ACME HD13
Neki kratak tekst 2...
Price: 54.56 BAM
Buy

ACME HD11
Neki kratak tekst 2...
Price: 54.56 BAM
Buy

ACME HDDY
Neki kratak tekst 2...
Show article

7. Kontakt stranica.

localhost

Home Contact My Orders Log out 🛒 (0)

Contact details

LinkedIn: [adrian_jurisic](#)

Github: [adrianjurisic](#)

Created by Adrian Jurišić

8. Pregled napravljenih narudžbi od strane korisnika koji je trenutno ulogovan.

localhost

Home Contact My Orders Log out 🛒 (0)

My Orders

Created at	Status
2024-12-30T16:03:53.000Z	pending
2024-12-30T16:06:16.000Z	rejected
2024-12-30T16:10:00.000Z	rejected
2025-01-02T16:56:20.000Z	pending
2025-01-13T16:30:07.000Z	accepted

9. Pregled korpe.

The screenshot shows a web application interface for managing orders. At the top, there is a navigation bar with links for Home, Contact, My Orders, Log out, and a shopping cart icon showing (0). Below the navigation bar, the main content area is titled "My Orders". It contains two columns: "Created at" and "Status".

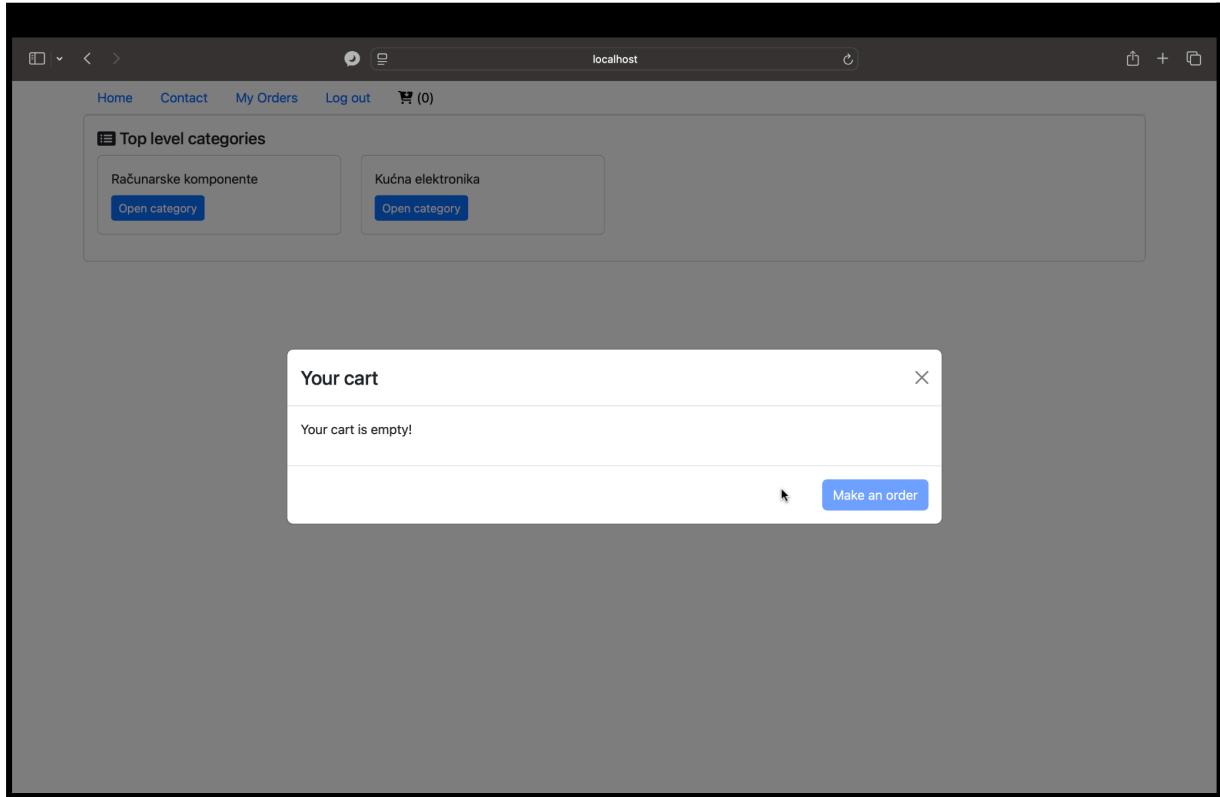
Created at	Status
2024-12-30T16:03:53.000Z	pending
2024-12-30T16:06:16.000Z	rejected
2024-12-30T16:10:00.000Z	rejected
2025-01-02T16:56:20.000Z	pending
2025-01-13T16:30:07.000Z	accepted

10. Spisak artikala narudžbe.

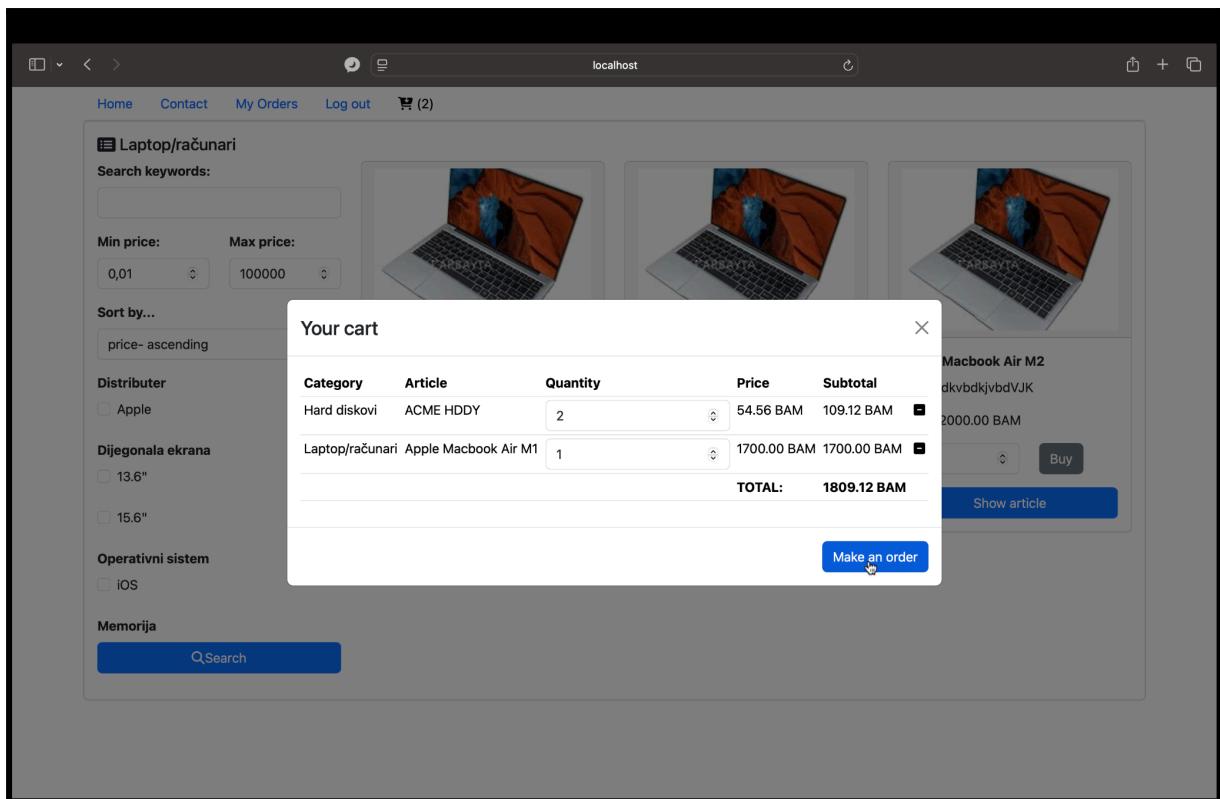
The screenshot shows a similar web application interface to the previous one, but with a modal window overlaid on the "My Orders" page. The modal is titled "Your order content" and displays a table with the details of a selected order.

Category	Article	Quantity	Price	Subtotal
Hard diskovi	ACME HDDY	1	54.56 BAM	54.56 BAM
TOTAL:				54.56 BAM

11. Pregled korpe, dugme “Make an order” je neaktivno sve dok se u korpu ne doda barem jedan artikal.



12. Pregled trenutne korpe i pravljenje narudžbe.



13. Narudžba poslana.

The screenshot shows a web browser window with a dark theme. The address bar says "localhost". The main content area is a search results page for "Laptop/računari". A modal dialog box titled "Your cart" is displayed, containing the message "Your cart is empty!". Below this, a green bar says "Order sent! Thank You!". At the bottom right of the modal is a blue button labeled "Make an order". In the background, there are three thumbnail images of a laptop screen displaying a landscape. To the right of the thumbnails, a product card for "Macbook Air M2" is visible, showing the price "2000.00 BAM" and a "Buy" button.

14. Pregled artikla

The screenshot shows a web browser window with a dark theme. The address bar says "localhost". The main content area displays a product page for "ACME HD12". On the left, there is a sidebar with sections for "Excerpt" (containing placeholder text "Neki kratak opis...") and "Description" (containing placeholder text "Detaljan opis ce da bude ovdje...."). Below these are "Features" listed as a bulleted list: "Kapacitet: 512GB" and "Tip: SATA 3.0". On the right side of the page is a large image of a hard drive with internal components labeled: "Glave" (heads), "Mechanizam glava" (head mechanism), and "Plote" (platters). Below the image, the price "Price: 59.15 EUR" is shown, followed by a quantity selector set to "1" and a "Buy" button.

15. Registracija korisnika.

The screenshot shows a web browser window with a registration form. The title bar indicates the page is running on 'localhost'. The navigation bar includes links for 'Administrator Login', 'User Login', and 'Register', with 'Register' being the active tab. The main content area is titled 'User Registration' and contains fields for E-mail, Password, Forename, Surname, Phone number, and Address, each with its own input field. A blue 'Register' button is located at the bottom left of the form.

Administrator Login User Login Register

User Registration

E-mail:

Forename: Surname:

Phone number:

Address:

Register