

**VISOKA ŠKOLA STRUKOVNIH STUDIJA ZA INFORMACIONE I KOMUNIKACIONE  
TEHNOLOGIJE**

# DOKUMENTACIJA

Web Programiranje PHP 2

*Hostit*

Djordje Knezevic - 255/22

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## **1.Uvod**

### **1.1 Koriscene tehnologije za izradu sajta**

Za sajt su koriscene tehnologije:

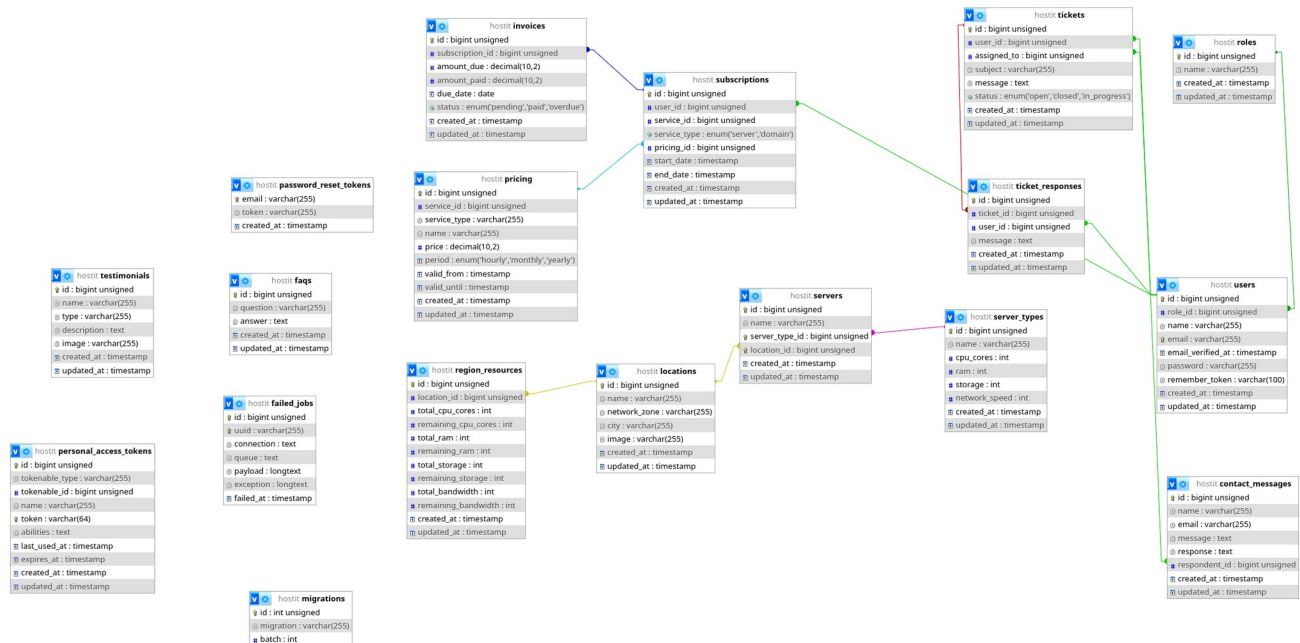
- Docker
- Mailhog
- PHP
- Javascript
- HTMX
- Bootstrap
- JQuery
- Laravel
- Filament
- Mysql
- Nginx
- Makefile

### **1.2 Template**

Za izradu sajta je koriscen template

<https://www.free-css.com/free-css-templates/page293/hostit>

## 1.3 Dizajn baze



## 1.4 Inicijalizacija projekta

Posto je projekat radjen u **Docker-u**, za Windows I Mac masine je neophodan [Docker desktop](#) da bi se uspesno inicijalizovao projekat. Takodje su dodati **docker-compose** I **Makefile** da bi olaksali celokupni rad. Najbitnije komande su

- **`make init`** - inicijalizuje ceo projekat – ovo se pokrece kada se projekat prvi put preuzima I pokrece. Svaki sledeci put se pokrece komanda:
- **`make start`** - startuje projekat – pokrece Docker kontejnere
- **`make stop`** - stopira projekat – stopira Docker kontejnere

Napomena: Sve **`make`** komande se moraju pokretati u root-u projekta, tj na istom nivou na kome je I **Makefile`**.

U slucaju da se projekat inicijalizuje na Windows masini, u root-u pokrenuti komande:

```

. .\start.ps1
Init-Project

```

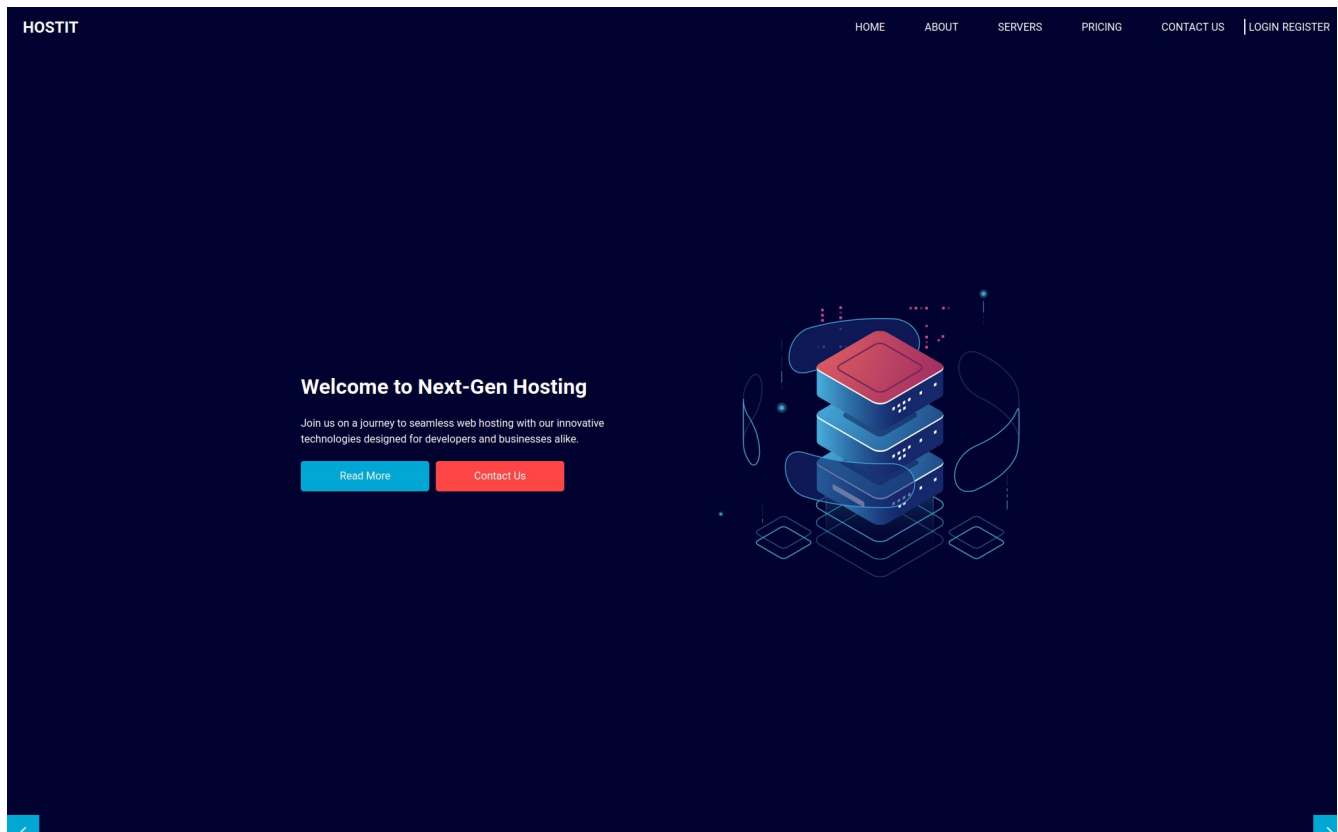
## 1.5 Linkovi za pristup projektu

Linkovi su:

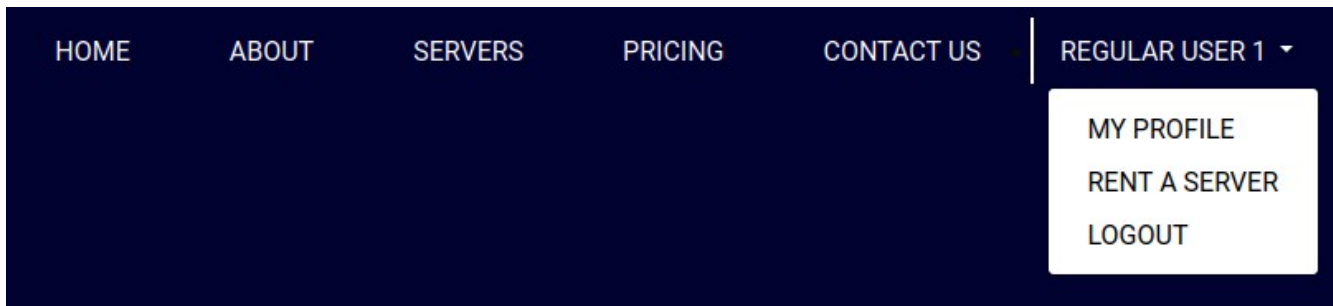
- localhost – aplikacija
- localhost:8093 – phpmyadmin
- localhost:8026 – mailhog ( za mejling funkcionalnosti )

## 2. Slike sajta I opis funkcionalnosti po stranicama

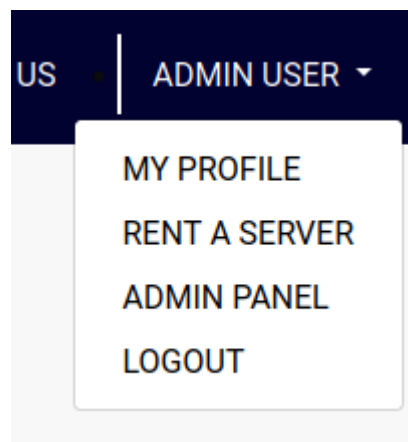
### 2.1 Index



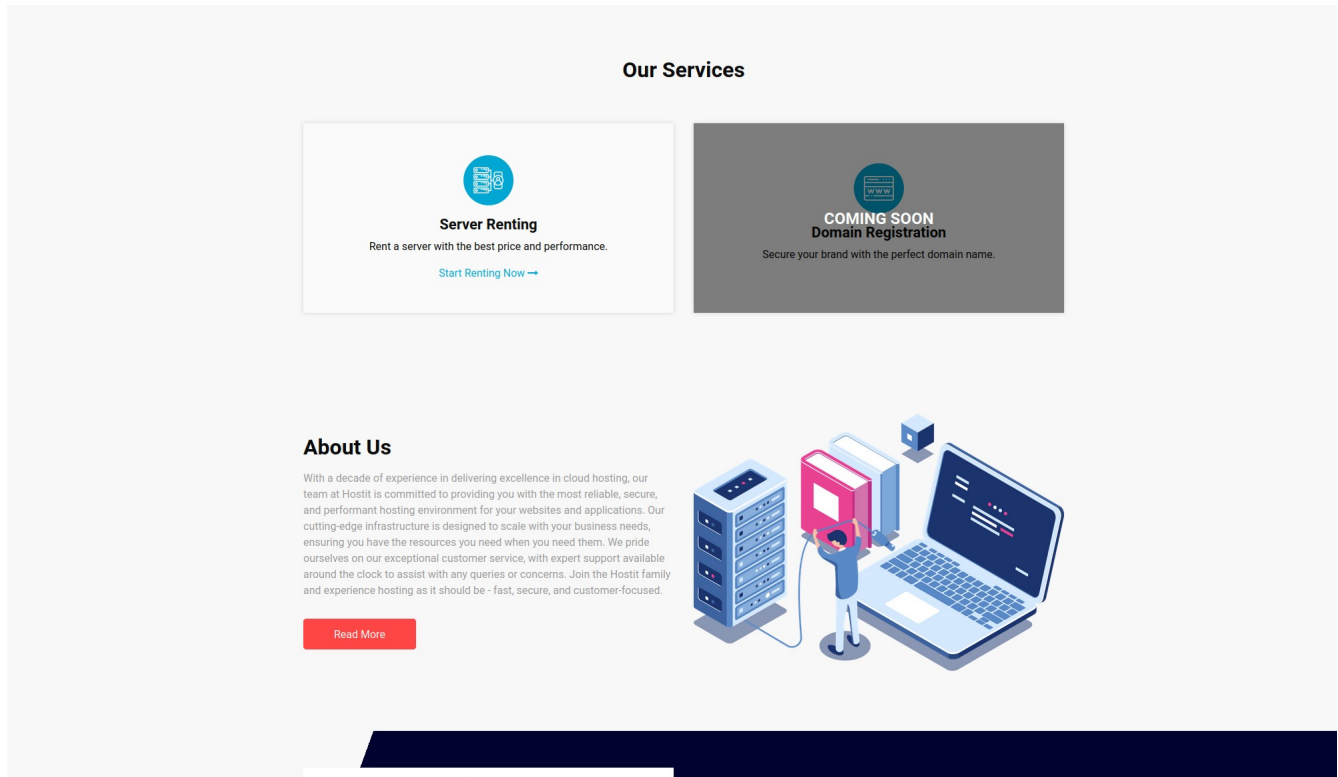
Prilikom ulaska na sajt, videce se dinamicki ispisan navigacioni meni kao i veliki slajder na sredini ekrana, svi linkovi vode na navedene stranice a login/register su uslovno renderovani, u zavisnosti da li je korisnik vec ulogovan ili ne. Ako nije, vidimo kao na prvoj slici. Ako jeste, vidimo kao na slici ispod:



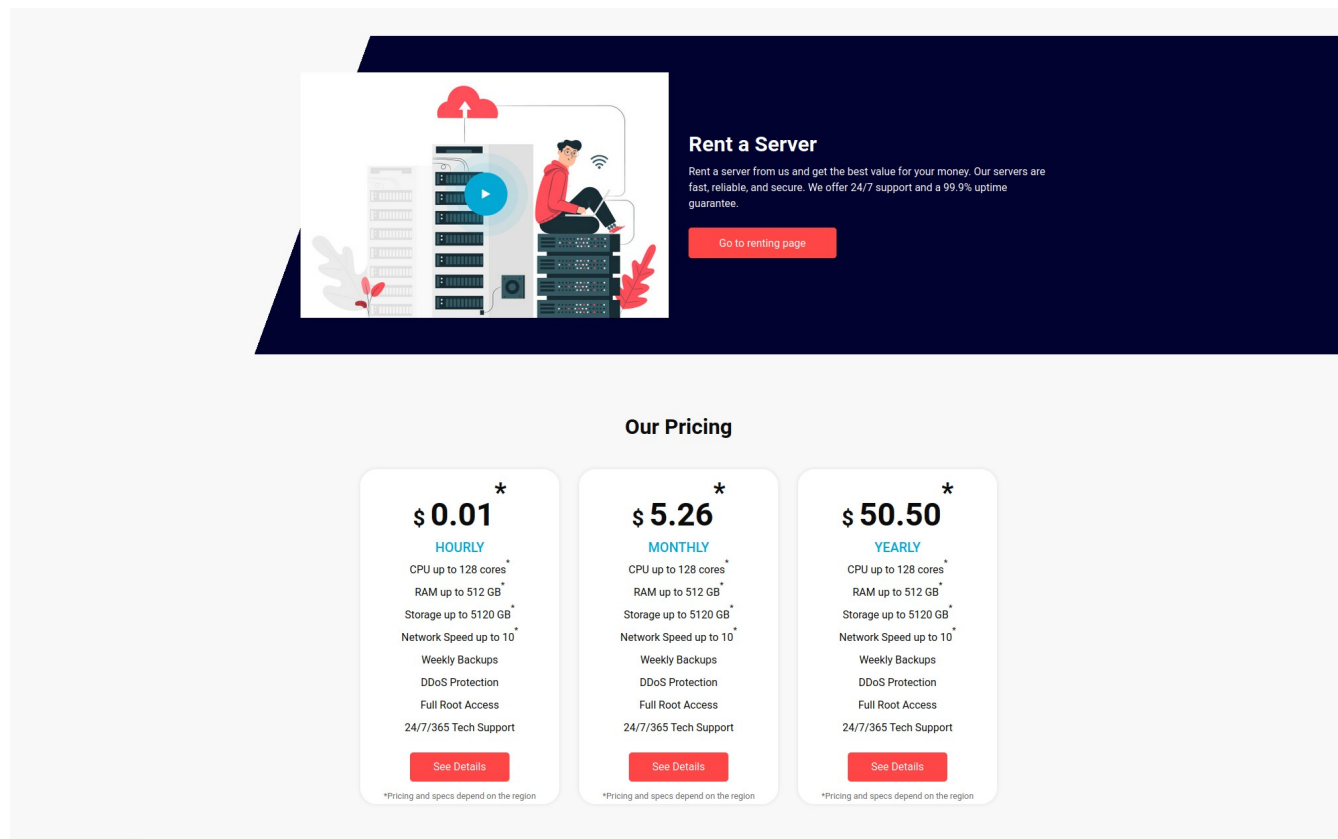
U slucaju da je ulogovani korisnik admin, pojavljuje se jos jedan link unutar select-a koji vodi na admin panel, odradjen uz pomoc filamenta:



Ispod prvog dela imamo deo na slici ispod:



Ovde imamo isto dinamicki ispisane usluge koje sajt pruza, trenutno ima samo rentiranje sajtova ali je u planu dodavanje I registracija I upravljanje domenima I rekordima. Link na bloku servera vodi na stranicu sa serverima. About dugme isto tako vodi na stranicu gde ima vise detalja o sajtu



The screenshot displays the Hostit website's server rental interface. At the top, a dark blue banner features an illustration of server racks and a person on the left, and a 'Rent a Server' section on the right. The 'Rent a Server' section includes a brief description of the service and a 'Go to renting page' button. Below the banner, the 'Our Pricing' section presents three pricing plans in white cards with red accents. Each card lists specifications like CPU, RAM, storage, and network speed, along with additional services like backups and DDoS protection. The plans are categorized as Hourly, Monthly, and Yearly. A small disclaimer at the bottom of each card states that pricing and specifications depend on the region.

### Rent a Server

Rent a server from us and get the best value for your money. Our servers are fast, reliable, and secure. We offer 24/7 support and a 99.9% uptime guarantee.

[Go to renting page](#)

### Our Pricing

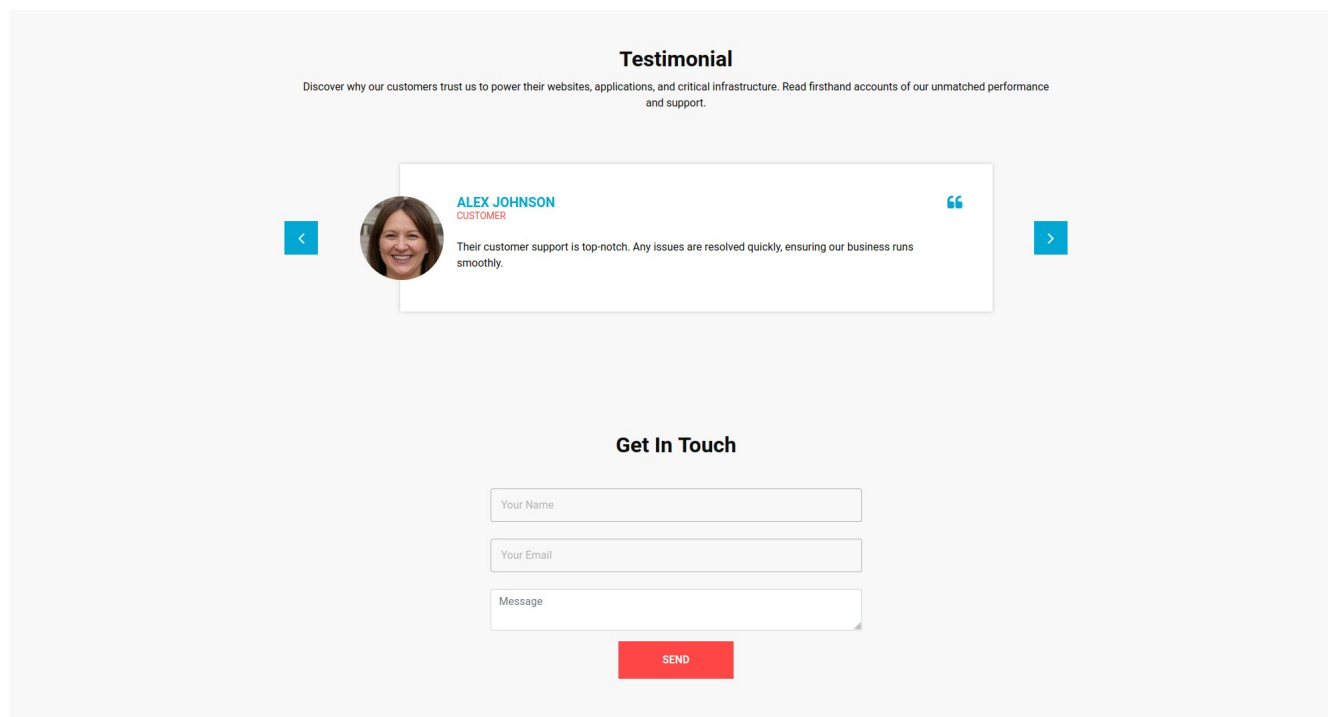
Hourly	Monthly	Yearly
<b>\$0.01*</b>	<b>\$5.26*</b>	<b>\$50.50*</b>
<b>HOURLY</b>	<b>MONTHLY</b>	<b>YEARLY</b>
CPU up to 128 cores*	CPU up to 128 cores*	CPU up to 128 cores*
RAM up to 512 GB*	RAM up to 512 GB*	RAM up to 512 GB*
Storage up to 5120 GB*	Storage up to 5120 GB*	Storage up to 5120 GB*
Network Speed up to 10*	Network Speed up to 10*	Network Speed up to 10*
Weekly Backups	Weekly Backups	Weekly Backups
DDoS Protection	DDoS Protection	DDoS Protection
Full Root Access	Full Root Access	Full Root Access
24/7/365 Tech Support	24/7/365 Tech Support	24/7/365 Tech Support
<a href="#">See Details</a>	<a href="#">See Details</a>	<a href="#">See Details</a>

\*Pricing and specs depend on the region

Ovde, u gornjem delu slike imamo dugme koje, u zavisnosti da li je korisnik ulogovan I verifikovao svoj mejl, ili ne, vodi ili na stranicu za rentiranje servera, ili na login stranicu.

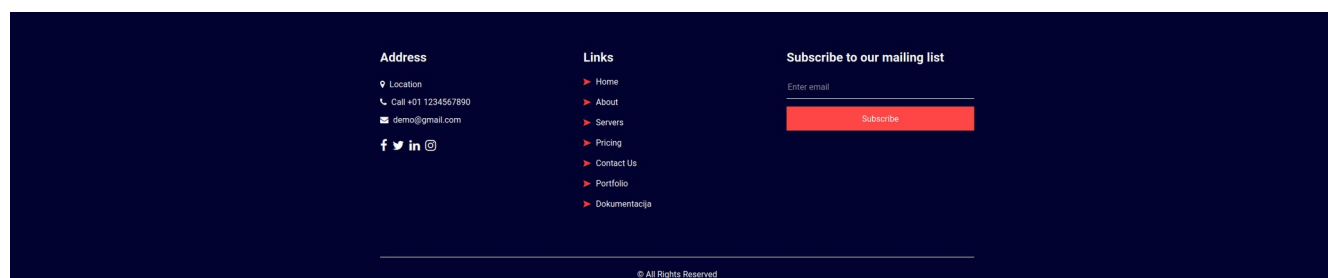
U donjem delu ove slike, imaju planovi rentiranja, tj cenovnik I sta sve dolazi u obzir, tj koje specifikacije servera. Linkovi vode na stranicu servera I njihovih cena





Ovde se nalaze, isto dinamički odštampane utiske musterija, uradjene u bootstrap carousel-u, podaci se nalaze u bazi podataka, u tabeli **testimonials**

Ispod je mini forma za kontakt administratora, ista se i nalazi u stranici contact. Nakon uspešnog slanja, administrator će moći na svojoj stranici da vidi ove informacije i odgovorice, gde će se poruka poslati na prosledjeni mejl. Takođe, korisnik će biti rutiran na početnu stranicu nakon uspešnog slanja mejla.



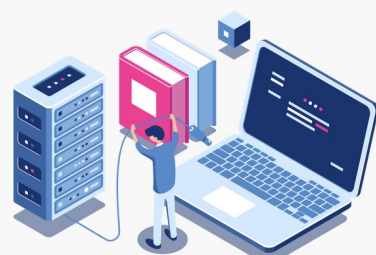
Ovde je footer sa dinamički odštampanim linkovima i stilom gde je crvene boje trenutno aktivan link. Tu se nalaze i linkovi za stranicu autora i Dokumentaciju. Takođe je tu mini forma za subskrajbovanje na mejling listu.

## 2.2 About

### About Hostit







At Hostit, we believe that web hosting is more than just providing web space and FTP access. Our mission is to provide individuals and businesses with everything they need to express themselves on the internet. Whatever you want to create a website for, be it a small family photo album or a full-powered database-driven site, your choice of host is essential. At Hostit, we provide dependable hosting services that offer you all the scalability, security, and support you need to build your presence online and share it with the world.

Our commitment to your success is evident in our round-the-clock customer support, an extensive knowledge base, and a vibrant community forum where you can share, learn, and grow. From enterprise-level corporations to individual developers, we provide hosting solutions tailored to meet your requirements. With Hostit, you can always expect reliable service, expert advice, and a hosting experience that helps you reach your objectives.



### Global Presence

Our server locations span across the globe, ensuring high availability and performance.

 <b>New York</b> US East - Zone A	 <b>San Francisco</b> US West - Zone B	 <b>London</b> EU West - Zone C
 <b>Frankfurt</b> EU Central - Zone D	 <b>Tokyo</b> Asia East - Zone E	 <b>Mumbai</b> Asia South - Zone F

Ovo je prosta stranica gde ima vise informacija o sajtu. U donjem delu su dinamckci odstamppane lokacije sa sve njihovim slikama koje se cuvaju u `/storage/app/public/img/countries`

## 2.3 Pricing

Ovo je stranica koja ima iste

### Our Pricing

<p><b>\$ 0.01*</b></p> <p>HOURLY</p> <p>CPU up to 128 cores*</p> <p>RAM up to 512 GB*</p> <p>Storage up to 5120 GB*</p> <p>Network Speed up to 10*</p> <p>Weekly Backups</p> <p>DDoS Protection</p> <p>Full Root Access</p> <p>24/7/365 Tech Support</p> <p><a href="#">See Details</a></p> <p><small>*Pricing and specs depend on the region</small></p>	<p><b>\$ 5.26*</b></p> <p>MONTHLY</p> <p>CPU up to 128 cores*</p> <p>RAM up to 512 GB*</p> <p>Storage up to 5120 GB*</p> <p>Network Speed up to 10*</p> <p>Weekly Backups</p> <p>DDoS Protection</p> <p>Full Root Access</p> <p>24/7/365 Tech Support</p> <p><a href="#">See Details</a></p> <p><small>*Pricing and specs depend on the region</small></p>	<p><b>\$ 50.50*</b></p> <p>YEARLY</p> <p>CPU up to 128 cores*</p> <p>RAM up to 512 GB*</p> <p>Storage up to 5120 GB*</p> <p>Network Speed up to 10*</p> <p>Weekly Backups</p> <p>DDoS Protection</p> <p>Full Root Access</p> <p>24/7/365 Tech Support</p> <p><a href="#">See Details</a></p> <p><small>*Pricing and specs depend on the region</small></p>
---	--	--

funkcionalnosti kao I pricing deo na index stranici

## 2.4 Contact

### Get In Touch


SEND

Kao i na index-u ovo je stranica gde korisnik salje poruku koje admini mogu da vide. Postoji validacija i na kraju redirekcija na home stranicu sa porukom ako je uspesno poslata poruka


## 2.5 Servers

### Select your preferred region


US East  
Zone A - New York




US West  
Zone B - San Francisco




EU West  
Zone C - London




EU Central  
Zone D - Frankfurt



Asia East  
Zone E - Tokyo



Asia South  
Zone F - Mumbai



Ovo je jedna od kompleksnijih stranica na sajtu. Ovde imamo informacije o svim lokacijama, njihovim serverima, i cenama tih servera. Klikom na jedno od ovih “collapse”-ova vidimo sledece:

US East

Zone A - New York



Starter

- CPU: 1 cores
- RAM: 2 GB
- Storage: 20 GB
- Network Speed: 1
- Weekly Backups
- DDoS Protection
- Full Root Access
- 24/7/365 Tech Support

Pricing Plans

Rent now

Basic

- CPU: 2 cores
- RAM: 4 GB
- Storage: 40 GB
- Network Speed: 1
- Weekly Backups
- DDoS Protection
- Full Root Access
- 24/7/365 Tech Support

Pricing Plans

Rent now

Intermediate

- CPU: 4 cores
- RAM: 8 GB
- Storage: 80 GB
- Network Speed: 2
- Weekly Backups
- DDoS Protection

Ovde imamo karakteristike svakog od ovih servera. Klikom na pricing plan vidimo sledece:

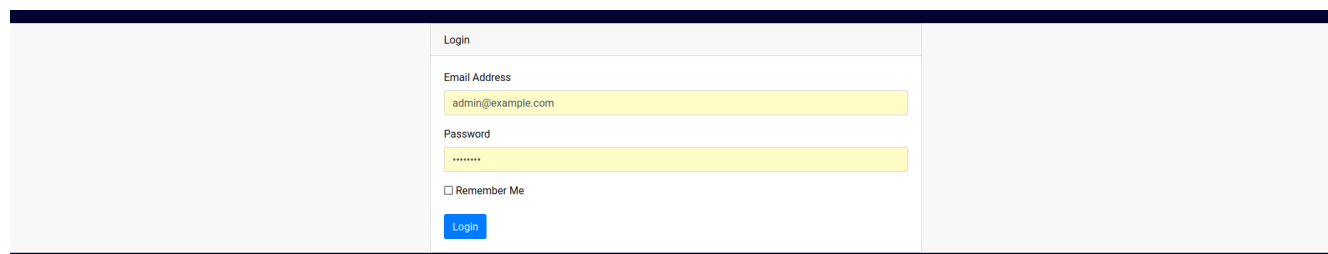
Pricing Plans
Hourly: \$0.01
Monthly: \$5.84 *
Yearly: \$56.06 *

\* Paid upfront.

Ovde vidimo planove/cenovnik za ovaj server na ovoj lokaciji. Napravljeno je tako da je “hourly” plan najskuplji na duze staze a “yearly” najjeftiniji, s tim sto se yearly I monthly odmah placaju, a hourly na kraju meseca. Takodje, cene zavise I od lokacije, npr, u **Asia south** je isti server jeftiniji nego u **Europe West**

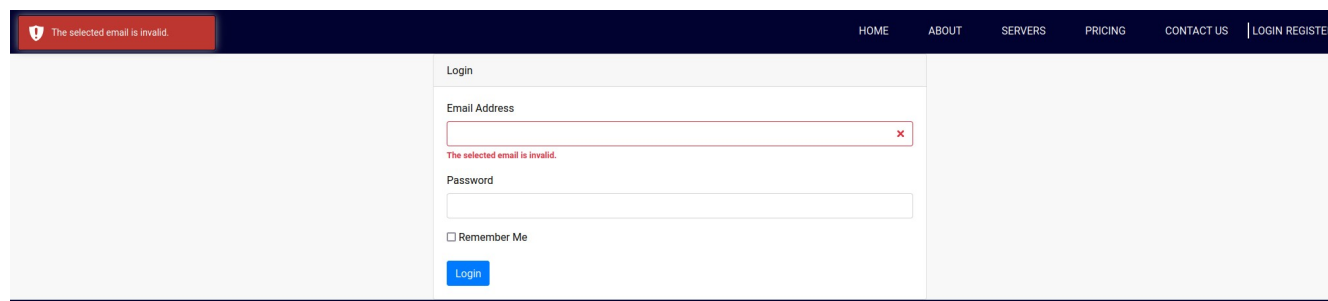
Klikom na link **Rent now** nas vodi ili na stranicu za rentiranje servera ( uz to sto ce se automatski popuniti za taj server na koji smo kliknuli ) ukoliko smo ulogovani I verifikovali mejl. U suprotnom ce nas rutirati na login stranicu, PA ONDA tek na tu gde smo prvobitno hteli, nakon uspesnog logovanja.

## 2.6 Login



The screenshot shows a login form on a website. The form is titled "Login" and contains two input fields: "Email Address" with the value "admin@example.com" and "Password" with masked characters "\*\*\*\*\*". Below the password field is a checkbox labeled "Remember Me". At the bottom of the form is a blue "Login" button. The form is set against a light gray background with a dark blue header and footer.

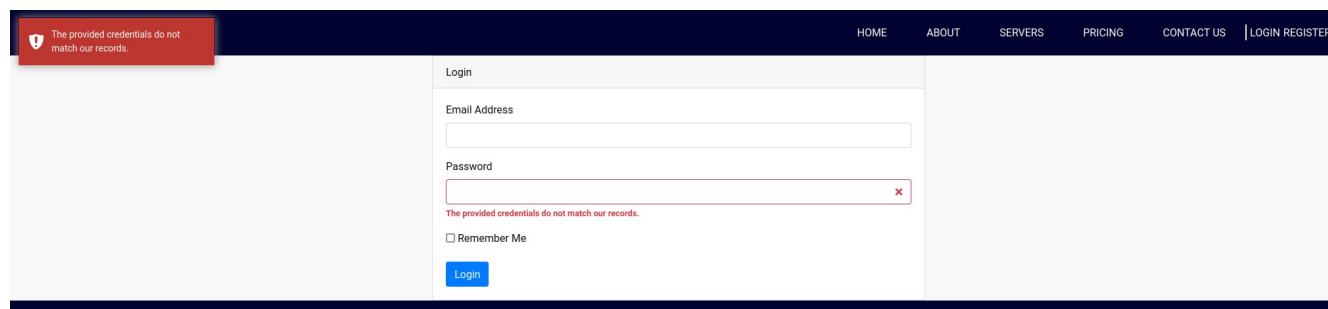
Ovo je jednostavna login stranica gde se zahteva mejl I sifra od korisnika. Ukoliko se pogresan ili nepostojeci mejl prosledi, 2 poruke izlaze, kao na slici ispod



The screenshot shows the same login form as before, but with an error message. At the top left, there is a red banner with a shield icon and the text "The selected email is invalid." The "Email Address" field now has a red border and a red "x" icon on the right side. Below the field, the error message "The selected email is invalid." is displayed in red text. The "Password" field and the "Remember Me" checkbox remain unchanged. The blue "Login" button is still at the bottom. The dark blue header now includes navigation links: HOME, ABOUT, SERVERS, PRICING, CONTACT US, and LOGIN REGISTER.

Takodje, cekiranjem “Remember Me” checkbox-a pamtimo sesiju korisnika, da ne mora ponovo da se loguje u buducnosti ( osim ako se on logout-uje ).

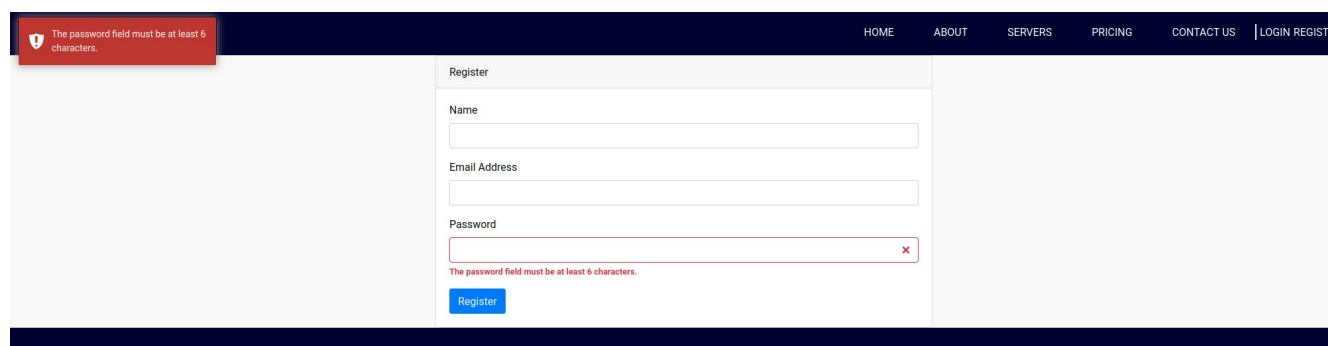
U slucaju korektnog mejla a pogresne sifre, vidimo rezultat ispod



The screenshot shows a login form with the title "Login". It contains two input fields: "Email Address" and "Password". The "Password" field is highlighted with a red border and a red "x" icon, indicating an error. Below the password field, a red message states: "The provided credentials do not match our records." There is a checkbox labeled "Remember Me" and a blue "Login" button. A red error message at the top left of the page reads: "The provided credentials do not match our records." The top navigation bar includes links for HOME, ABOUT, SERVERS, PRICING, CONTACT US, and LOGIN REGISTER.

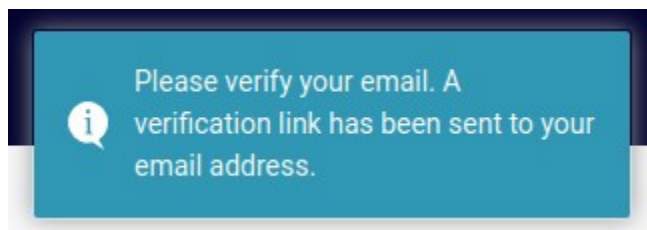
Ako je sve u redu I uspesno se logujemo, po default-u cemo biti rutirani na profilnu stranicu sa porukom da smo se uspesno ulogovali. U slucaju da smo dosli sa stranice servera gde smo hteli da rentiramo odredjeni server, bicemo prosledjeni na tu stranicu. Nakon logout-ovanja, bicemo prosledjeni na pocetnu stranicu.

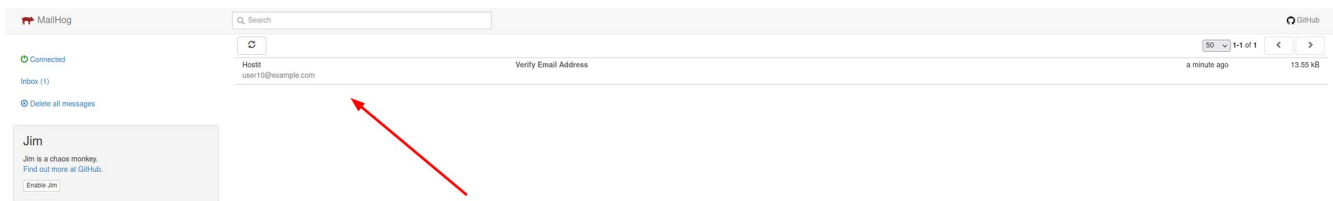
## 2.7 Register



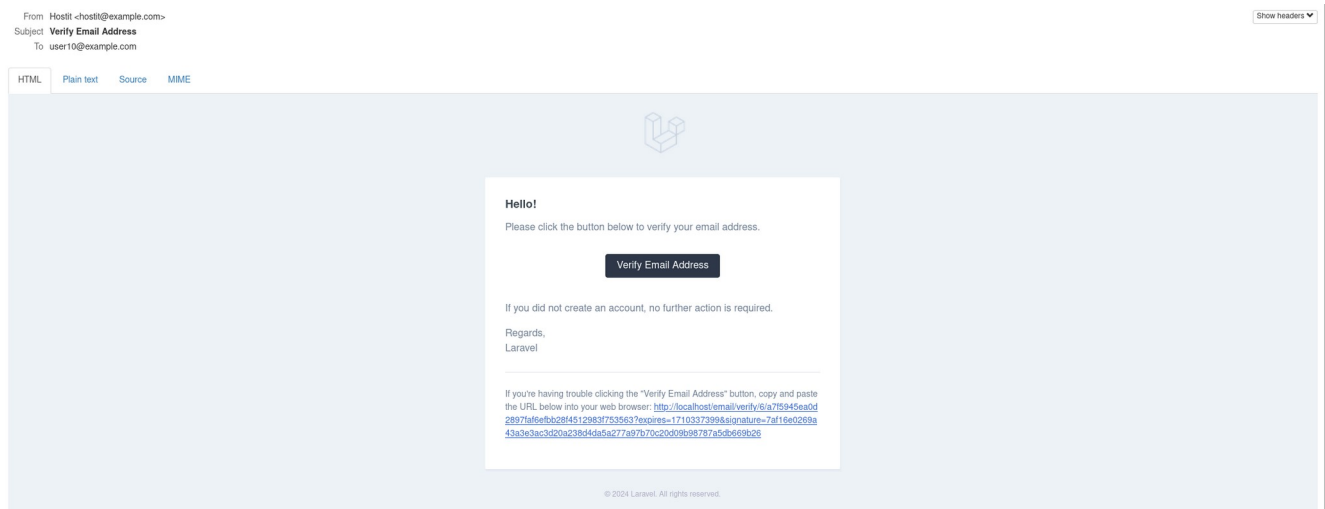
The screenshot shows a register form with the title "Register". It contains three input fields: "Name", "Email Address", and "Password". The "Password" field is highlighted with a red border and a red "x" icon, indicating an error. Below the password field, a red message states: "The password field must be at least 6 characters." There is a blue "Register" button. A red error message at the top left of the page reads: "The password field must be at least 6 characters." The top navigation bar includes links for HOME, ABOUT, SERVERS, PRICING, CONTACT US, and LOGIN REGISTER.

Ovde imamo jednostavnu formu za registraciju, imamo da ime mora imati barem 3 slova, email mora biti u formatu mejla, I ne sme da postoji vec u bazi, I imamo da sifra ima najmanje 6 slova, jedno veliko slovo, I 1 broj. Nakon uspesne registracije, bice javljeno da je poslat mejl nakon cega ce korisnik trebati da pristupi **localhost:8026** sto je mailhog konzola da verifikuje svoj mejl





Klikom na ovaj link imamo:



Na kraju, kada klikenmo “Verify Email Address”, bicemo prosledjeni na pocetnu stranicu sa porukom da je mejl uspesno verifikovan I bicemo automatski login-ovani

## 2.8 Server Renting

**HOSTIT** HOME ABOUT SERVERS PRICING CONTACT US ADMIN USER

### Server Renting

Location  
Select a Location

Server  
Please select a location first

Pricing Plan  
Please select a location first

Complete Renting

**Address**  
 Location  
 Call +01 1234567890  
 demo@gmail.com  
 f t in

**Links**  
 Home  
 About  
 Servers  
 Pricing  
 Contact Us  
 Portfolio  
 Dokumentacija

**Subscribe to our mailing list**  
 Enter email  
 Subscribe

© All Rights Reserved

Nakon uspesne verifikacije mejla, korisnik sada mozes da rentira servere. Klikom na profil pa “rent a server” nas dovodi na ovu stranicu. U slucaju da smo dosli ovde iz stranice o serverima klikom na neko “rent now” dugme, polja ce biti automatski popunjena kao na slici ispod

**HOSTIT** HOME ABOUT SERVERS PRICING CONTACT US ADMIN USER

### Server Renting

Location  
US East

Server  
Starter

Pricing Plan  
Hourly: \$0.01

Complete Renting

**Location information:**

Name:	US East
Network Zone:	Zone A
City:	New York

**Server information:**

Name:	New York - Starter
CPU Cores:	1
RAM:	2 GB
Storage:	20 GB
Network Speed:	1 Gbps

**Pricing information:**

Period:	Hourly
Price:	\$0.01



Svi dropdownovi se dinamički popunjavaju iz baze preko AJAX-a. Po default-u ( u slučaju da nije prosledjen id servera u query string-u ) su dostavljene lokacije, a serveri se popunjavaju biranjem neke opcije od lokacija, kao što se cene popunjavaju biranjem nekog servera u select-u. Resetovanjem lokacije se resetuju sve opcije ispod. Sa strane se takodje popunjavaju informacije u zavisnosti od toga šta smo izabrali.

The screenshot shows a web application interface for renting servers. A modal titled "Confirm Renting" is open, asking for confirmation to rent a server named "Frankfurt - Advanced" in the "EU Central" region for \$49.06. The background shows a form with the following fields:

- Location:** EU Central
- Server:** Advanced
- Pricing Plan:** Monthly - \$49.06 (Paid upfront)

Below these fields is a "Complete Renting" button. To the right of the modal, the "Server information" and "Pricing information" are displayed:

**Server information:**

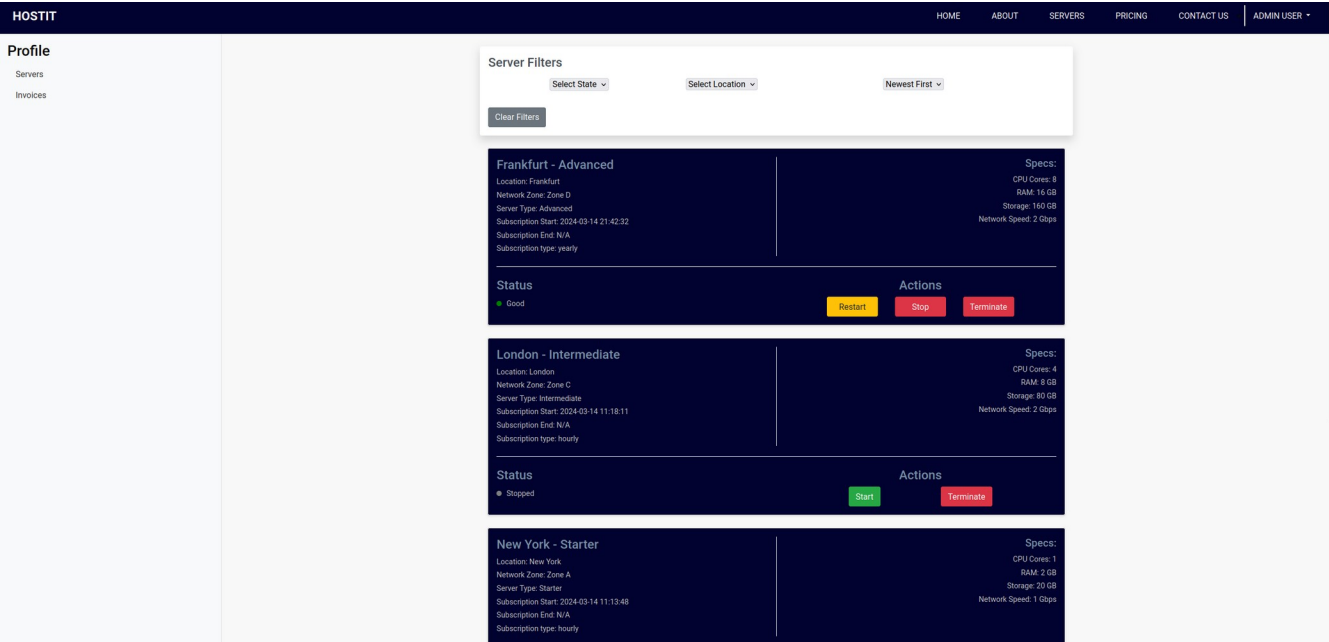
- Name: Frankfurt - Advanced
- CPU Cores: 8
- RAM: 16 GB
- Storage: 160 GB
- Network Speed: 2 Gbps

**Pricing information:**

- Period: Monthly
- Price: \$49.06 (Paid upfront)

Kada se korisnik odabere sve opcije, dugme "Complete Renting" više neće biti disable-ovano, već će moći da se klikne, nakon čega će izaći modal za potvrdu rentiranja sa sve informacijama o tom serveru. U slučaju biranja "monthly" ili "yearly" plana, naplaćuje se odmah, a u slučaju "hourly", naplaćuje se po satu. U slučaju potvrde, korisnik se rutira na profilnu stranicu gde može videti sve svoje servere i racune.

## 2.9 Profile



Prilikom dolaska na profilnu stranicu, videmo 2 linka, link za iznajmljenje servera, I link za racune ( invoices ). Deo za servere prikazuje informacije o iznajmljenim serverima kao I akcije koje se mogu odraditi nad njima. Iznad ima deo za filtriranje, I sortiranje a postoji I paginacija. Terminacijom servera se prekida subskripcija za koju je vezan. Stopiranjem “hourly” servera prestaje naplacivanje po satu.

U sekciji sa racunima imamo racune po lokaciji/regionu kao i za sve servere unutar tog regiona. Takodje imamo opciju da biramo za koji cemo mesec da gledamo racune ( ako postoje u tim mesecima ), da biramo po statusima, kao i sto imamo opciju da sortiramo po najplacenijim serverima.

**HOSTIT**

HOMEABOUTSERVERSPRICINGCONTACT USADMIN USER ▾

**Profile**

ServersInvoices

Invoices Filters

March 2024 ▾Sort by Amount Due ▾Select Status ▾

Total Due: \$420.25

Total Paid: \$502.66

EU Central

Total Due: \$420.00

Total Paid: \$470.98

[View Servers](#)

US East

Total Due: \$0.21

Total Paid: \$11.68

[View Servers](#)

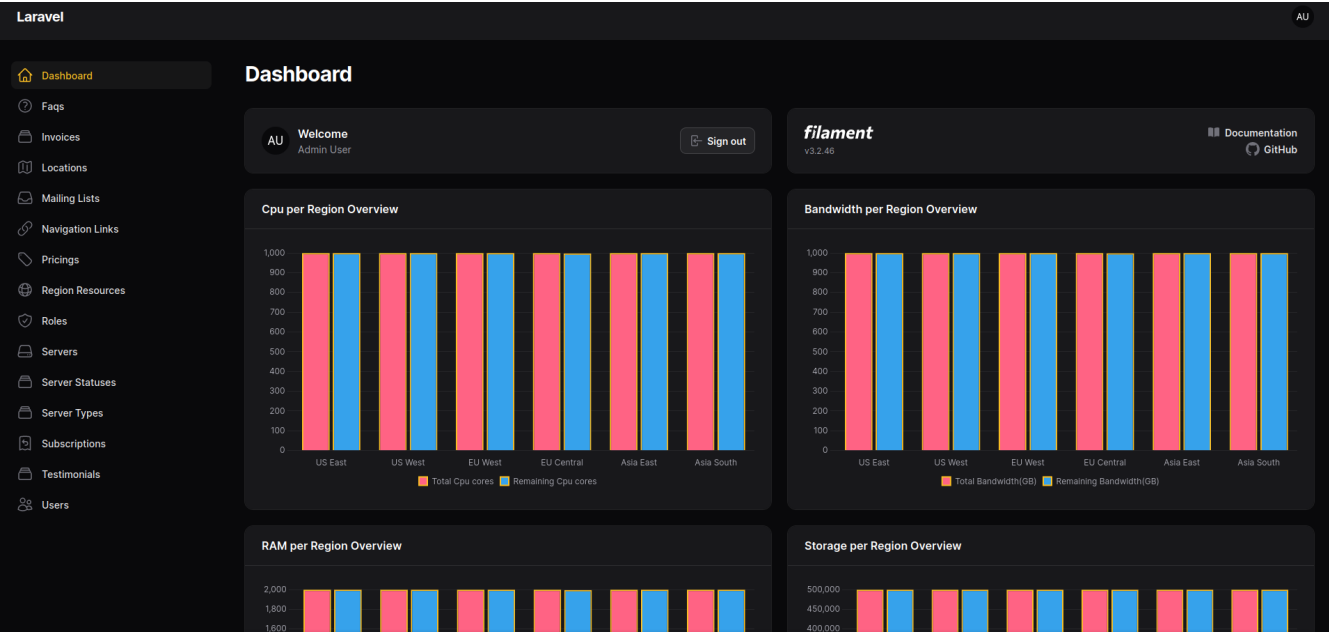
EU West

Total Due: \$0.04

Total Paid: \$20.00

[View Servers](#)

2.10 Admin



Ovo je admin stranica, radjena u Filamentu, ovde se mogu videti, kreirati I editovati skoro sve tabele iz baze podataka. Na naslovnoj stranici vidimo statuse iskoriscenih resursa po regionu. Sa leve strane nam je navigacija za svaki resurs, odnosno tabelu. Klikom na neki od resursa vidimo stanje te tabele

Users > List

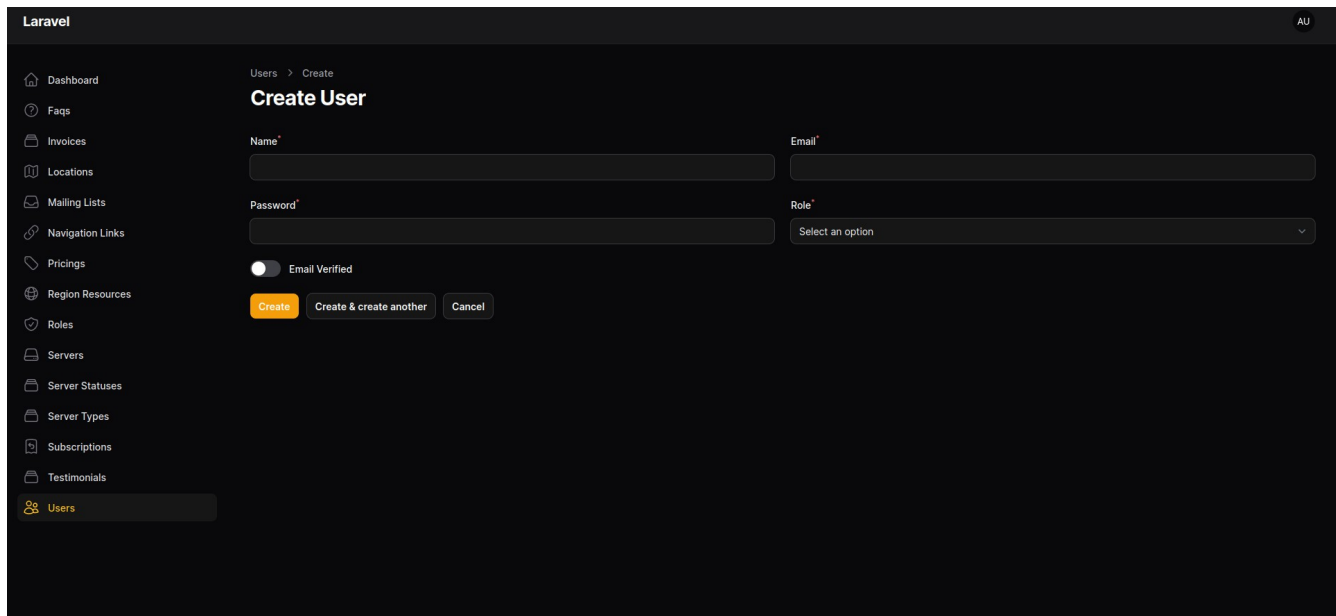
New user

<input type="checkbox"/>	Name	Email	Role	Created at	Updated at	Verified Email	Remembered	
<input type="checkbox"/>	Admin User	admin@example.com	Admin	Mar 17, 2024 11:34:30	Mar 17, 2024 11:34:30	<span>✓</span>	<span>✓</span>	<a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	Moderator User	moderator@example.com	Moderator	Mar 17, 2024 11:34:30	Mar 17, 2024 11:34:30	<span>✓</span>	<span>✗</span>	<a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	Premium User 1	premiumuser@example.com	Premium	Mar 17, 2024 11:34:30	Mar 17, 2024 11:34:30	<span>✓</span>	<span>✗</span>	<a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	Regular User 1	user1@example.com	User	Mar 17, 2024 11:34:30	Mar 17, 2024 11:34:30	<span>✓</span>	<span>✗</span>	<a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	Regular User 2	user2@example.com	User	Mar 17, 2024 11:34:30	Mar 17, 2024 11:34:30	<span>✓</span>	<span>✗</span>	<a href="#">Edit</a> <a href="#">Delete</a>

Showing 1 to 5 of 5 results

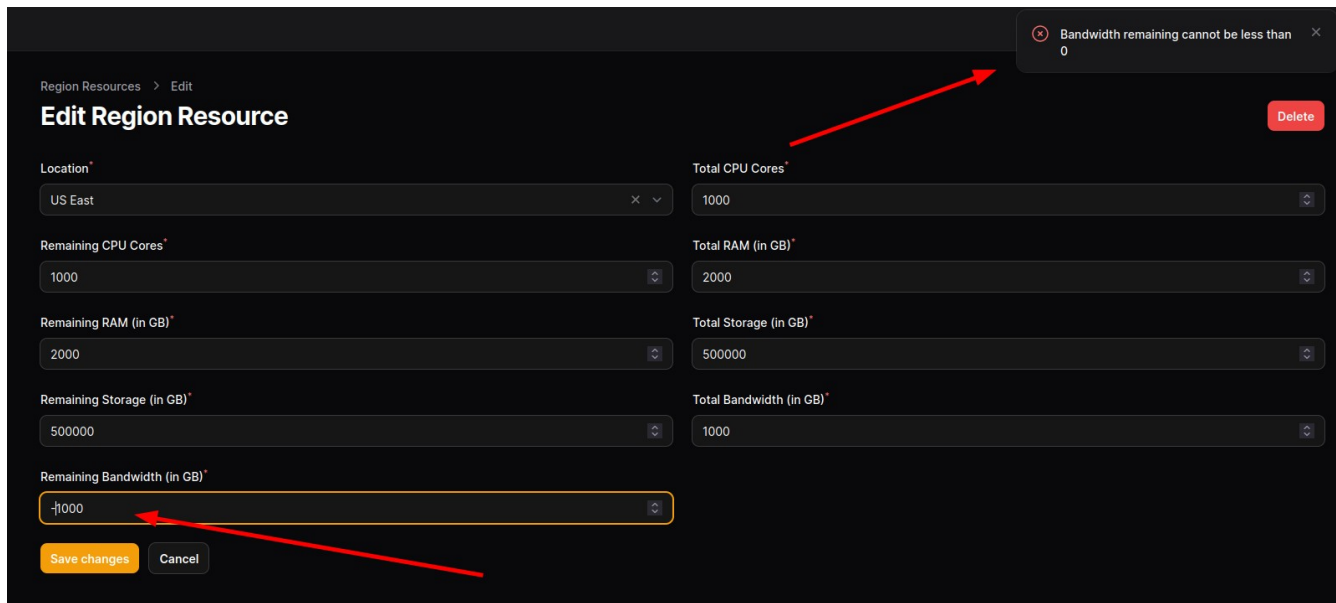
Per page 10

U vecini tabela se moze svaka od kolona I redova editovati, kreirati nov unos u tabelu, kao I filtrirati postojeci rezultati u gornjem desnom uglu ( ispod dugmeta “New User” )



The screenshot shows a web application interface for creating a new user. On the left is a sidebar with a list of navigation items: Dashboard, Faqs, Invoices, Locations, Mailing Lists, Navigation Links, Pricings, Region Resources, Roles, Servers, Server Statuses, Server Types, Subscriptions, and Testimonials. The 'Users' item is highlighted. The main content area is titled 'Create User' and contains a form with the following fields: 'Name' (text input), 'Email' (text input), 'Password' (password input), and 'Role' (a dropdown menu with 'Select an option' as the current selection). There is also a toggle switch for 'Email Verified'. At the bottom of the form are three buttons: 'Create' (orange), 'Create & create another' (grey), and 'Cancel' (grey). The top right corner of the application shows the name 'Laravel' and a user profile icon labeled 'AU'.

Za vecinu tabela I kolona postoji provera, tj validacija pre unosa novog, odnosno editovanja postojeceg reda. U slucaju pogresnog unosa, izaci ce notifikacija o tome da obavesti tog korisnika



The screenshot displays the 'Edit Region Resource' form. The form includes several input fields for resource specifications: 'Location' (set to 'US East'), 'Total CPU Cores' (1000), 'Remaining CPU Cores' (1000), 'Total RAM (in GB)' (2000), 'Remaining RAM (in GB)' (2000), 'Total Storage (in GB)' (500000), 'Remaining Storage (in GB)' (500000), and 'Total Bandwidth (in GB)' (1000). The 'Remaining Bandwidth (in GB)' field is currently set to '-1000' and is highlighted with a yellow border. A red arrow points from this field to a notification box in the top right corner that reads 'Bandwidth remaining cannot be less than 0'. Another red arrow points from the 'Save changes' button at the bottom left to the same notification box. The form also features a 'Delete' button in the top right corner. The breadcrumb at the top indicates the path 'Region Resources > Edit'.