

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

# DOKUMENTACIJA

Web Programiranje PHP 2

*Hostit*

Djordje Knezevic - 255/22

## Sadržaj

|                                                          |    |
|----------------------------------------------------------|----|
| 1. Uvod.....                                             | 3  |
| 1.1 Koriscene tehnologije za izradu sajta.....           | 3  |
| 1.2 Template.....                                        | 3  |
| 1.3 Dizajn baze.....                                     | 4  |
| 1.4 Inicijalizacija projekta.....                        | 4  |
| 1.5 Linkovi za pristup projektu.....                     | 5  |
| 2. Slike sajta I opis funkcionalnosti po stranicama..... | 5  |
| 2.1 Index.....                                           | 5  |
| 2.2 About.....                                           | 10 |
| 2.3 Pricing.....                                         | 10 |
| 2.4 Contact.....                                         | 11 |
| 2.5 Servers.....                                         | 11 |
| 2.6 Login.....                                           | 13 |
| 2.7 Register.....                                        | 14 |
| 2.8 Server Renting.....                                  | 16 |
| 2.9 Profile.....                                         | 18 |

# 1.Uvod

## 1.1 Koriscene tehnologije za izradu sajta

Za sajt su koriscene tehnologije:

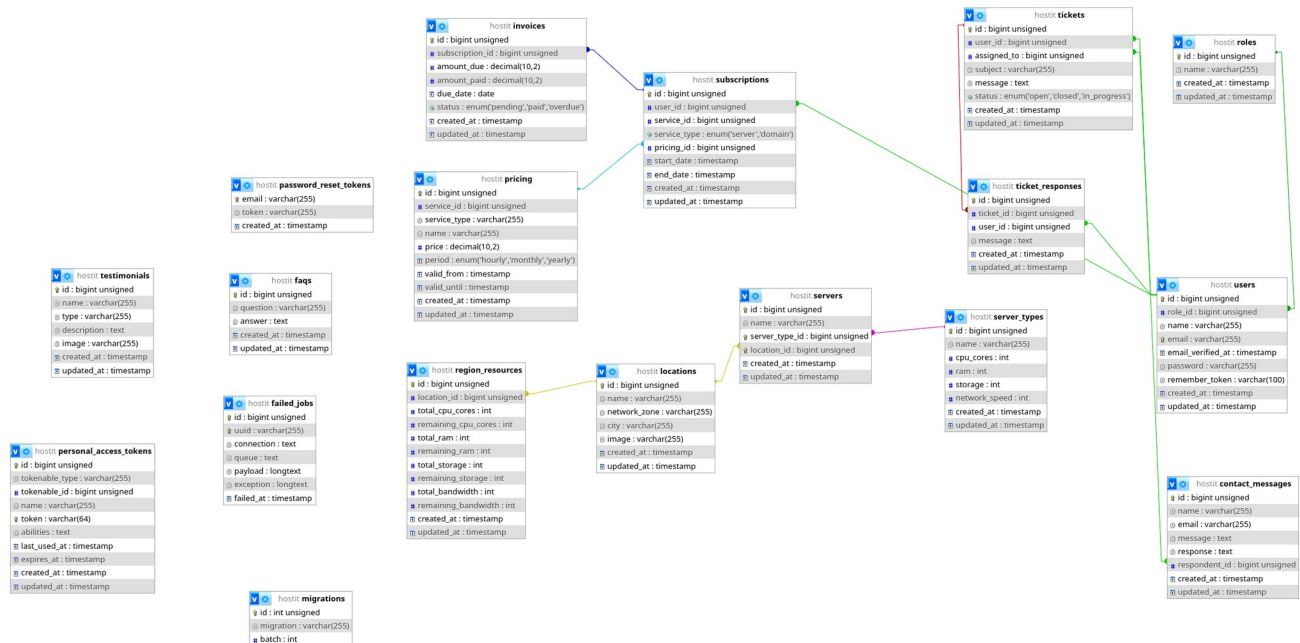
- Docker
- Mailhog
- PHP
- Javascript
- HTMX
- Bootstrap
- JQuery
- Laravel
- Filament
- Mysql
- Nginx
- Makefile

## 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`**.

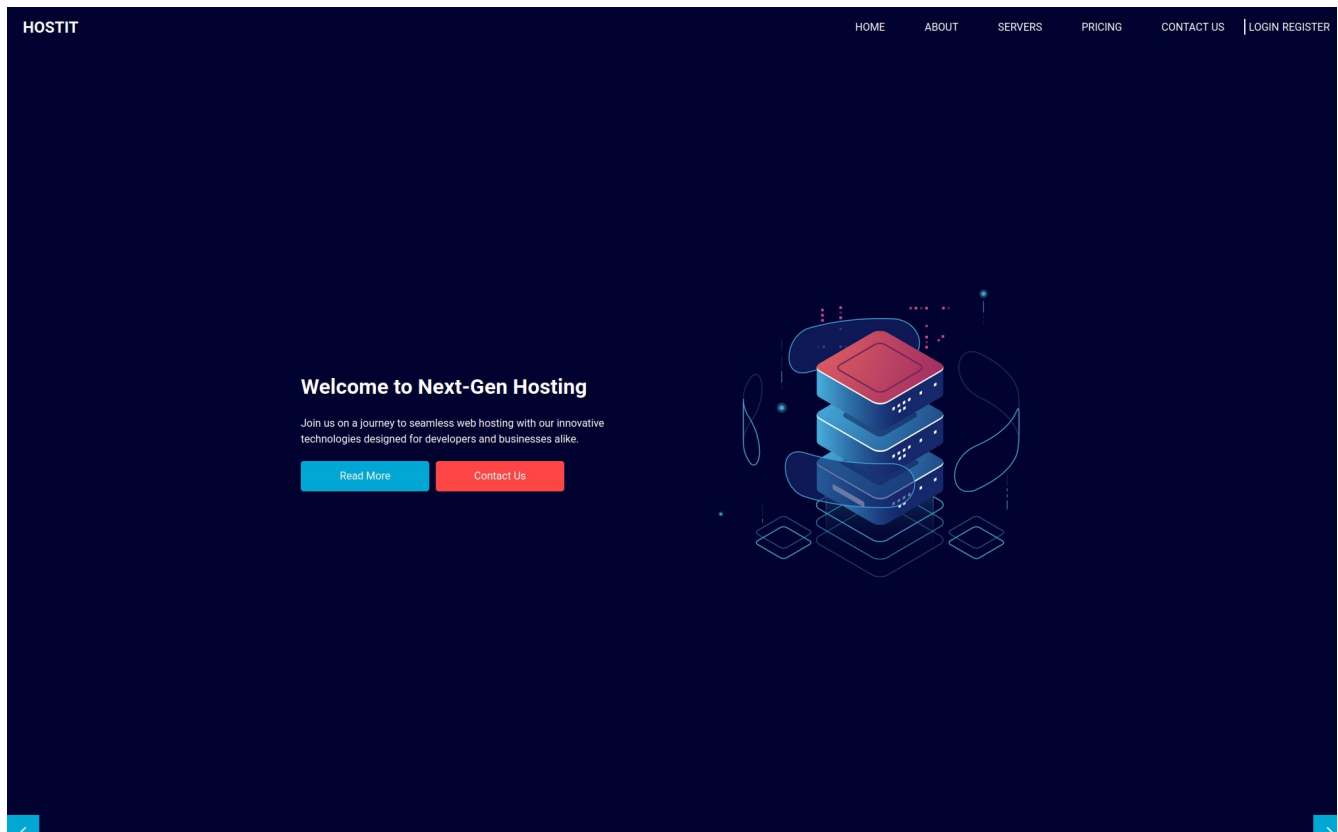
## 1.5 Linkovi za pristup projektu

Linkovi su:

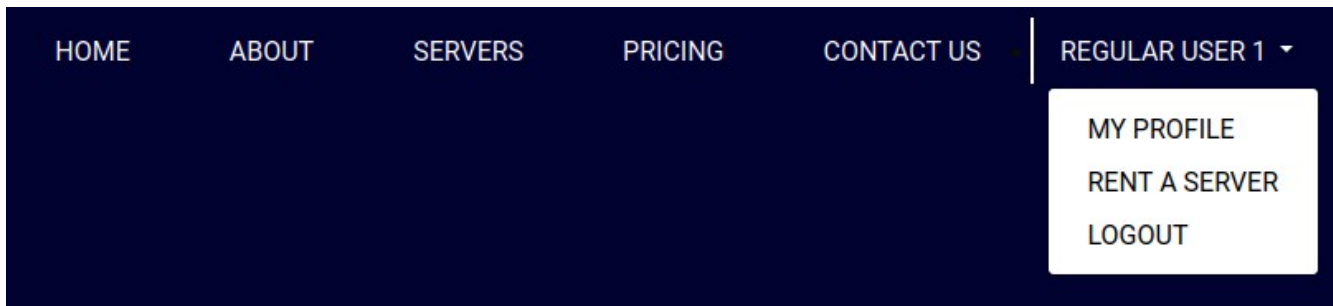
- localhost – aplikacija
- localhost:8093 – phpmyadmin
- localhost:8026 – mailhog ( za mejling funkcionalnosti )

## 2. Slike sajta I opis funkcionalnosti po stranicama

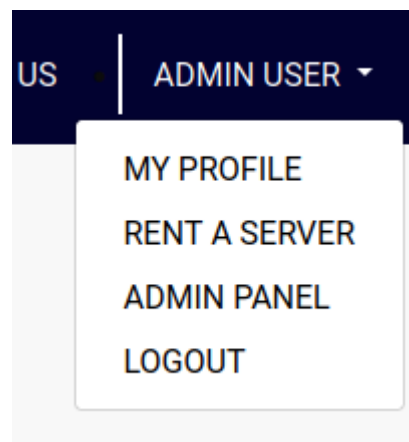
### 2.1 Index



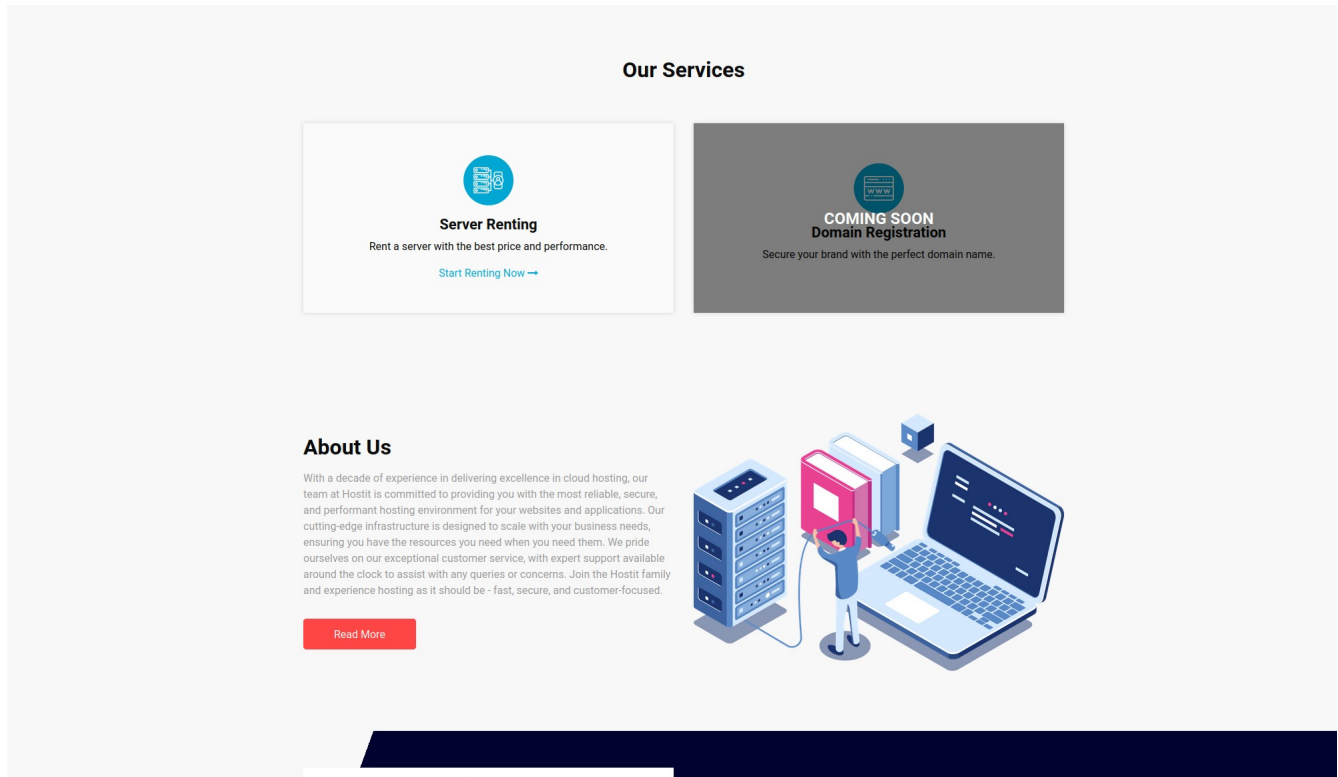
Prilikom ulaska na sajt, videce se dinamicki ispisan navigacioni meni kao i veliki slajder na sredini ekrana, svi linkovi vode na navedene stranice a login/register su uslovno renderovani, u zavisnosti da li je korisnik vec ulogovan ili ne. Ako nije, vidimo kao na prvoj slici. Ako jeste, vidimo kao na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



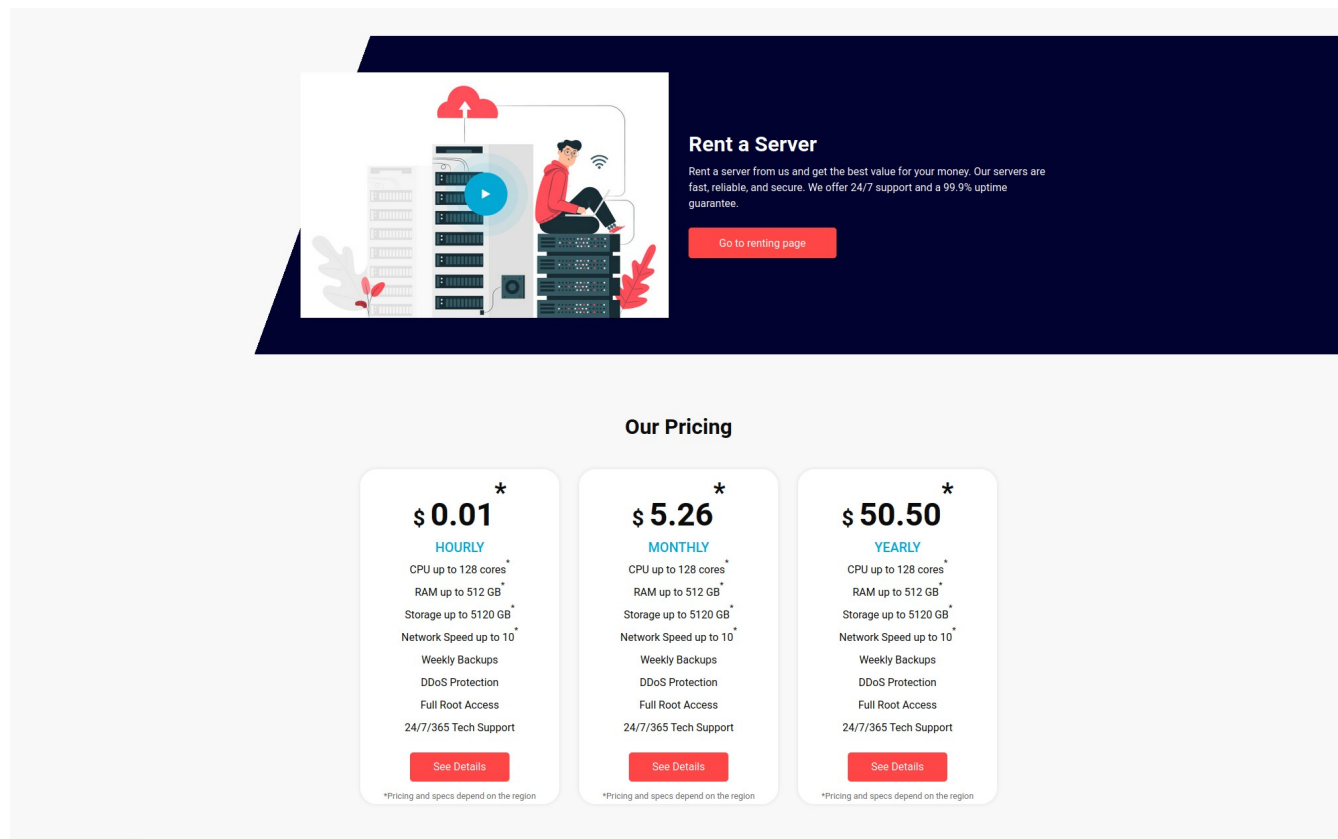
U slucaju da je ulogovani korisnik admin, pojavljuje se jos jedan link unutar select-a koji vodi na admin panel, odradjen uz pomoc filamenta:



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 'Rent a Server' section. At the top, a dark blue banner features an illustration of server racks, a person sitting on them, and a cloud with an upload arrow. To the right of the illustration, the text 'Rent a Server' is followed by a description: '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.' Below this text is a red button labeled 'Go to renting page'.

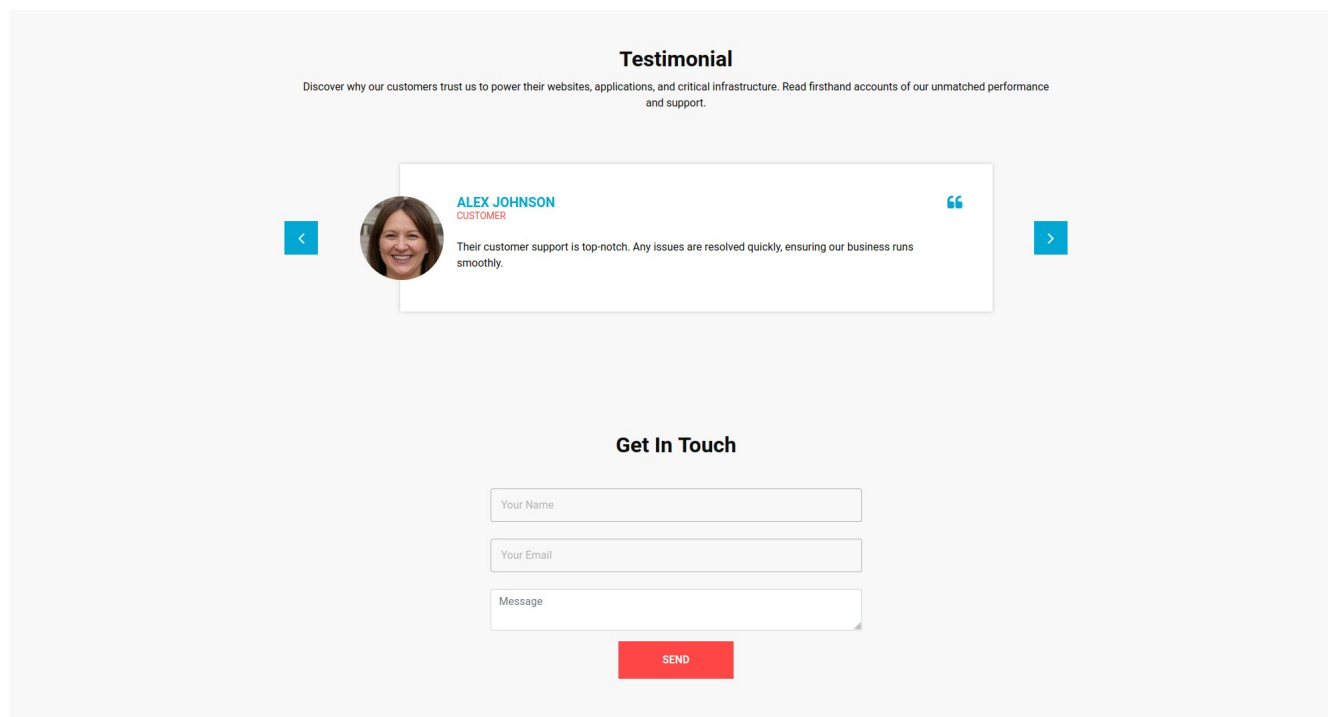
Below the banner, the 'Our Pricing' section is displayed. It contains three pricing cards, each with a red 'See Details' button at the bottom. Each card has a footnote: '\*Pricing and specs depend on the region'.

| 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   |

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.

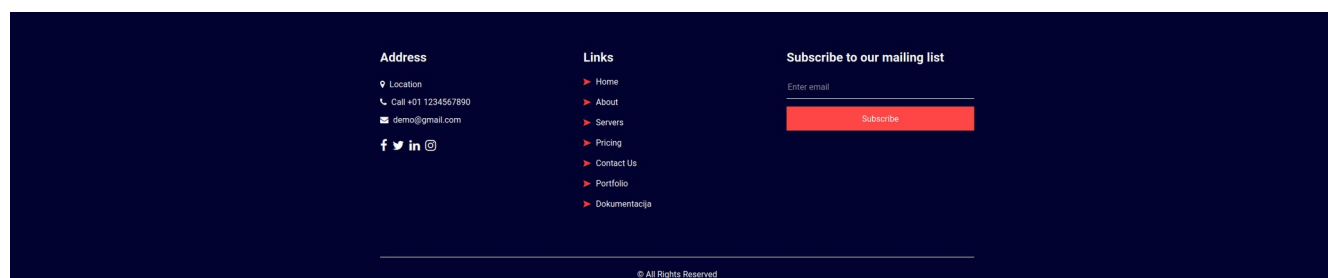
U donjem delu ove slike, imaju planovi rentiranja, tj cenovnik I sta sve dolazi u obzir, tj koje specifikacije servera. Linkovi vode na stranicu servera I njihovih cena





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.



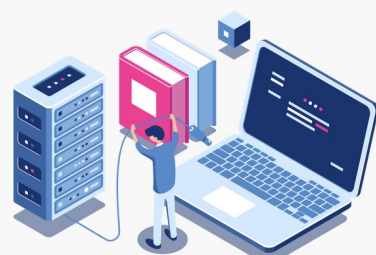
Ovde je footer sa dinamički odštampanim linkovima i stilom gde je crvene boje trenutno aktivan link. Tu se nalaze i linkovi za stranicu autora i Dokumentaciju. Takođe je tu mini forma za subskrajbovanje na mejling listu.

## 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.

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

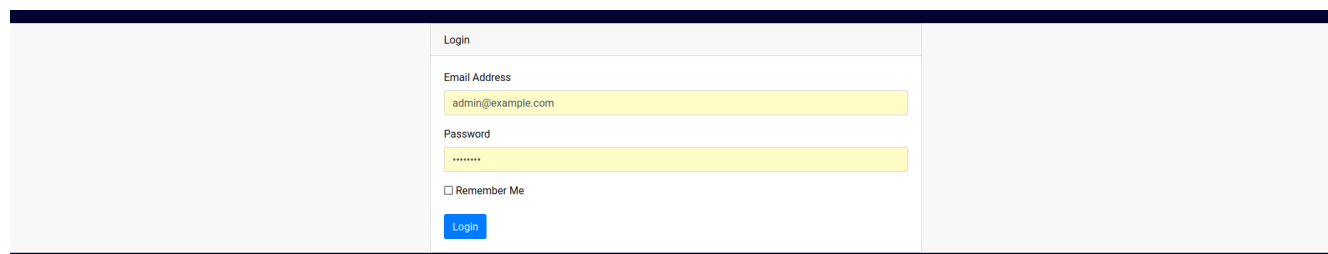
| Pricing Plans     |
|-------------------|
| Hourly: \$0.01    |
| Monthly: \$5.84 * |
| Yearly: \$56.06 * |

\* 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.

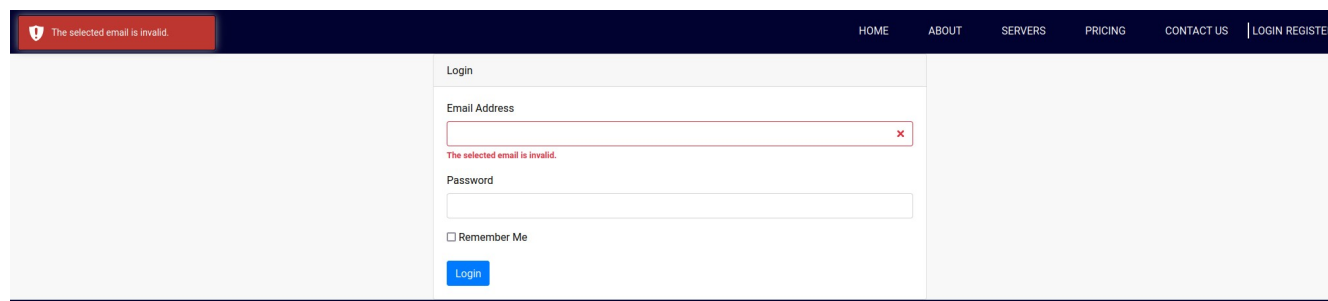
## 2.6 Login



The screenshot shows a login form with the following fields and elements:

- Login** (header)
- Email Address**: Input field containing "admin@example.com"
- Password**: Input field with masked characters "\*\*\*\*\*"
- ☐ Remember Me
- Login** (button)

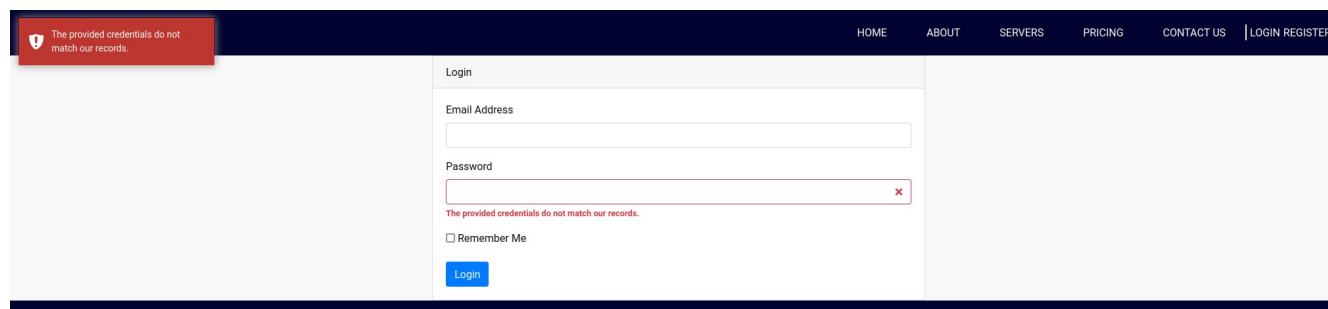
Ovo je jednostavna login stranica gde se zahteva mejl I sifra od korisnika. Ukoliko se pogresan ili nepostojeci mejl prosledi, 2 poruke izlaze, kao na slici ispod



The screenshot shows the login form with an error message displayed at the top: "The selected email is invalid." The email address field is highlighted with a red border and a red 'x' icon. The password field is empty. The "Remember Me" checkbox is unchecked. The "Login" button is visible at the bottom.

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

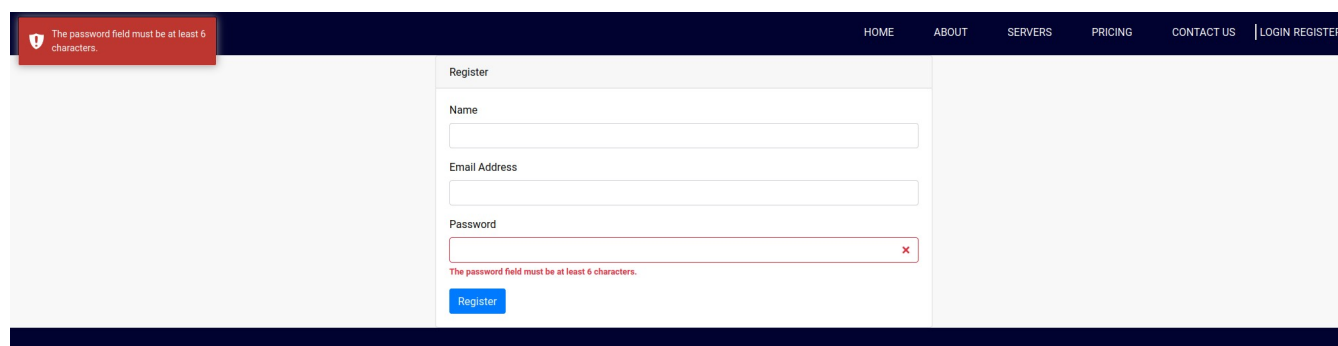


The screenshot shows a login form with the following elements:

- Header: HOME, ABOUT, SERVERS, PRICING, CONTACT US, LOGIN REGISTER
- Message: The provided credentials do not match our records.
- Form fields: Email Address, Password (with a red 'x' icon).
- Text: The provided credentials do not match our records.
- Checkbox: Remember Me
- Button: Login

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.

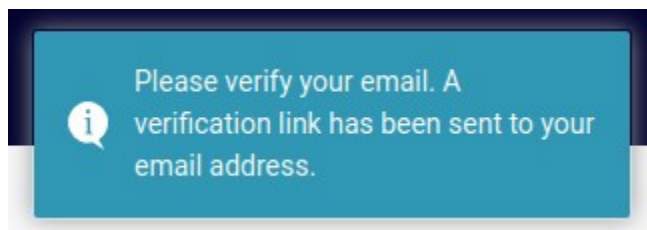
## 2.7 Register

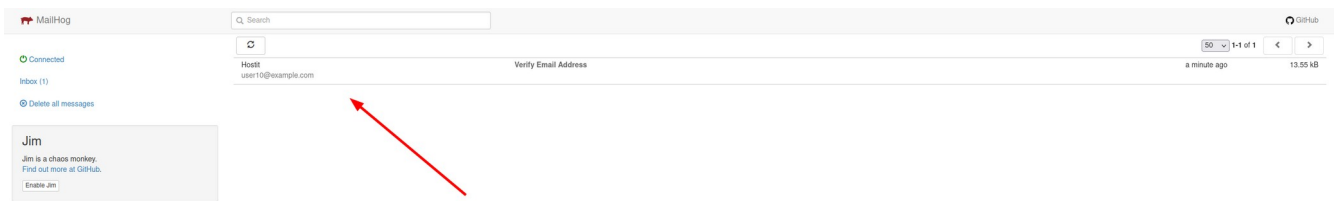


The screenshot shows a register form with the following elements:

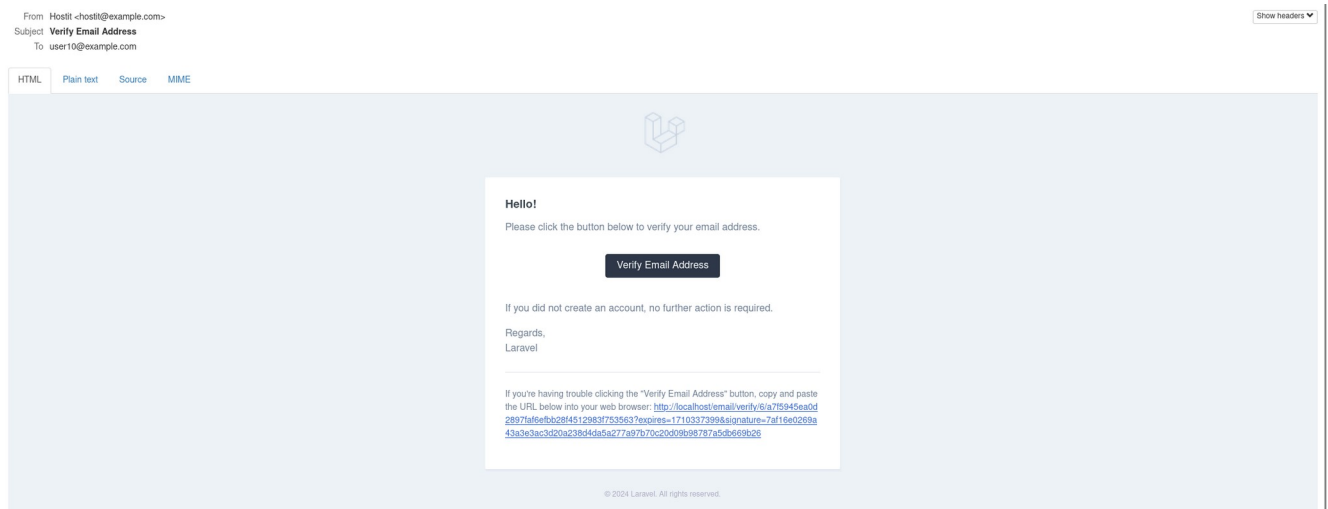
- Header: HOME, ABOUT, SERVERS, PRICING, CONTACT US, LOGIN REGISTER
- Message: The password field must be at least 6 characters.
- Form fields: Name, Email Address, Password (with a red 'x' icon).
- Text: The password field must be at least 6 characters.
- Button: Register

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

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



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, there is a "Server information" section with the following details:

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

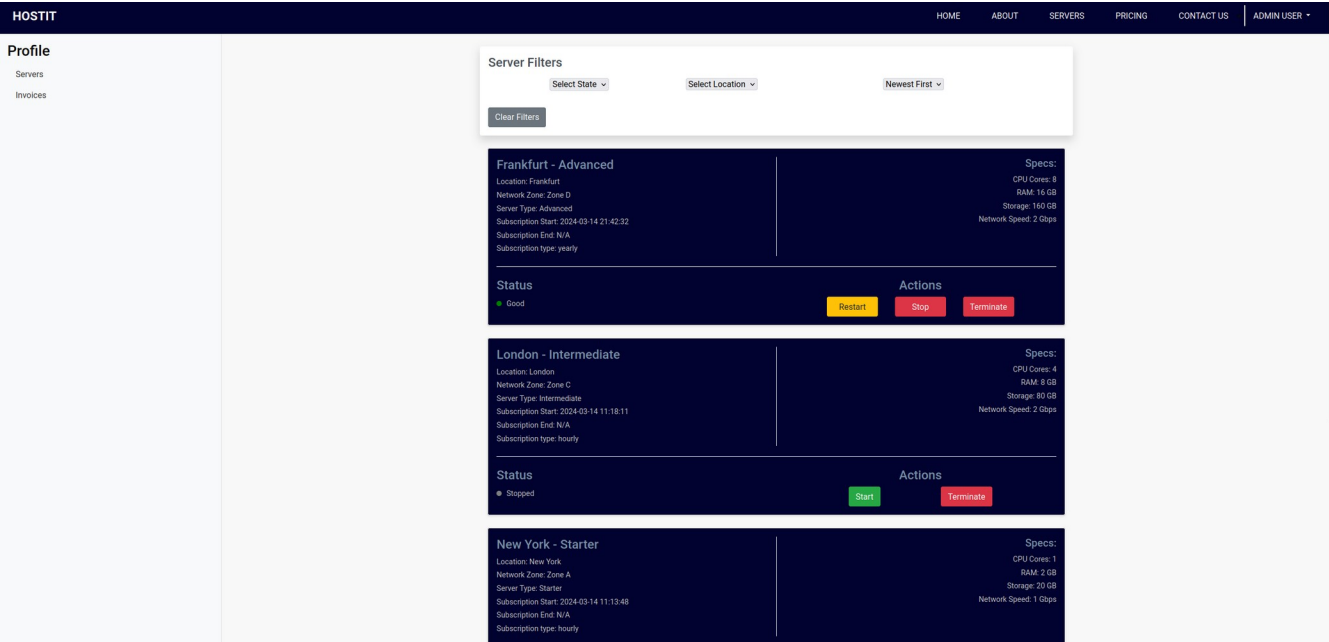
Below that is a "Pricing information" section:

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

The top navigation bar includes links for HOME, ABOUT, SERVERS, and PRICING.

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

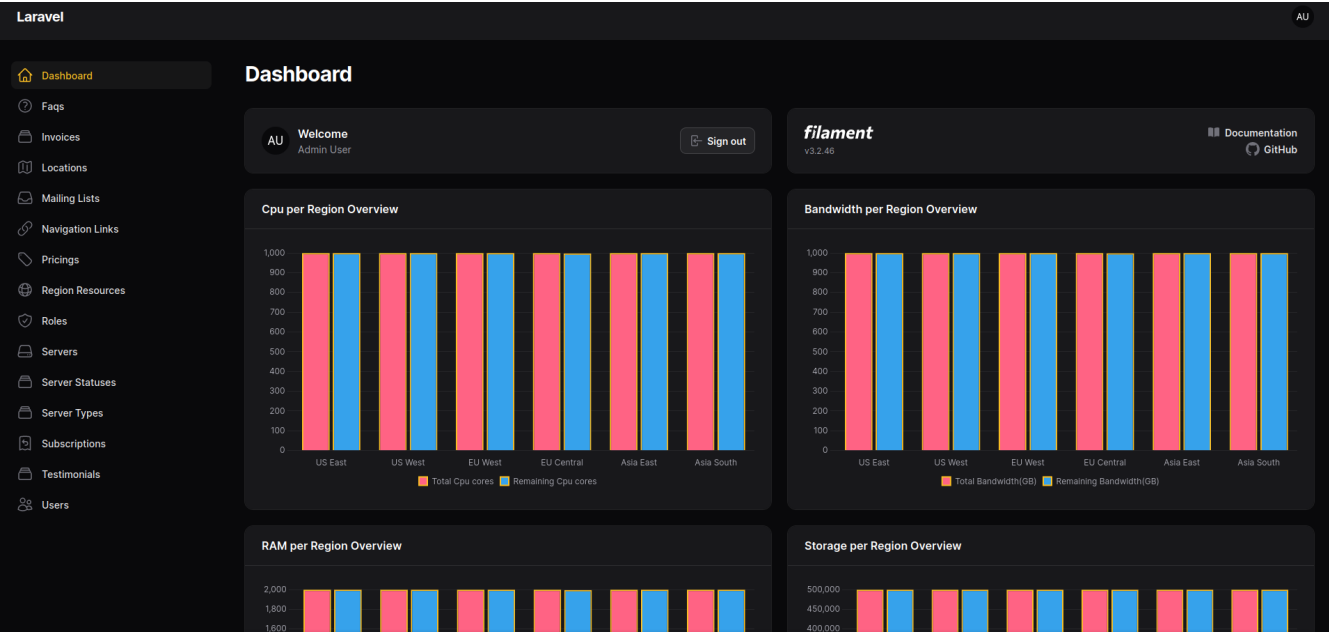
[View Servers](#)

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 with a dark theme. On the left is a sidebar menu with various navigation items like 'Dashboard', 'Faq's', 'Invoices', etc., with 'Users' highlighted. The main content area is titled 'Create User' and contains a form with fields for 'Name', 'Email', 'Password', and 'Role'. There is also a checkbox for 'Email Verified' and three buttons at the bottom: 'Create', 'Create & create another', and 'Cancel'.

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 shows the 'Edit Region Resource' form. It has several input fields for 'Location', 'Total CPU Cores', 'Remaining CPU Cores', 'Total RAM', 'Remaining RAM', 'Total Storage', 'Remaining Storage', and 'Remaining Bandwidth'. A red arrow points from the 'Remaining Bandwidth' field, which contains '-1000', to a notification box in the top right corner that says 'Bandwidth remaining cannot be less than 0'. Another red arrow points to the 'Save changes' button at the bottom left.