VELEUČILIŠTE U RIJECI

Poslovni odjel

Specijalistički diplomski stručni studij Informacijske tehnologije u poslovnim sustavima Kolegij: Programsko inženjerstvo

Leonardo Topčagić

Ivan Lucić

**Aplikacija za sportske događaje**

Projektni zadatak

Rijeka, 2021.

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**Aplikacija za sportske događaje**

Projektni zadatak

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# Opis sustava

Ideja ovog projektnog zadatka jest napraviti aplikaciju koju će korisnici koristiti u svrhu organiziranja i/ili prisustvovanja sportskim događajima. Moguće je organizirati događaje iz raznih sportova te se prema opisu svakog događaja zainteresirani korisnici mogu prijaviti na isti.

Aplikacija bi sadržavala registraciju korisnika prilikom koje bi korisnici morali dati svoje osobne podatke pri izradi svojega računa. To je preduvjet kako bi se mogao kreirati događaj ili zabilježiti dolazak na određenu sportsku aktivnost. Događaji bi se mogli filtrirati i sortirati prema mjestu odvijanja, sportu ili aktivnošću na koju se događaj odnosi te prema datumu događaja. Samim time događaji bi se pokazivali prema lokaciji koju korisnik odredi kao svoju, a dodatni filteri bi suzili izbor događaja koje korisnika zanimaju.

Svaki sportski događaj imao bi određen broj slobodnih mjesta te postavljeno ograničenje koje onemogućava prisustvovanje događaju koji je popunjen, također organizatoru događaja bi zainteresirani sudionici mogli poslati upite o događaju ukoliko postoje neke nejasnoće. Uz to svaki korisnik imao bi pregled svih događaja koje je organizirao i pregled onih kojima će prisustvovati.

Za izradu ovakve aplikacije odlučili smo se iz razloga što se u slobodno vrijeme bavimo sportom, a uz korištenje ovakve aplikacije mogli bismo se lakše organizirati i pronaći ljude za timske sportove ili aktivnosti koji bi u tome voljeli sudjelovati.

# Arhitektura sustava

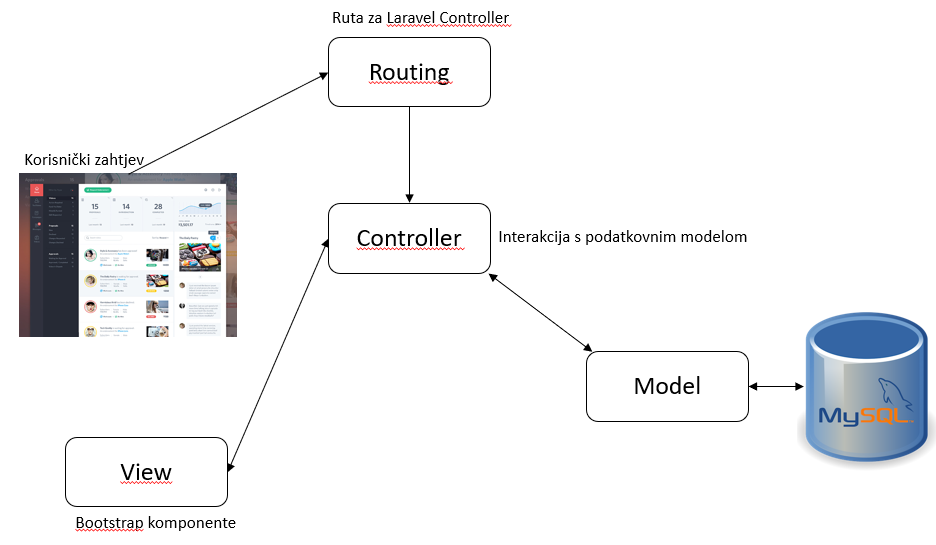
## Opis arhitekture

Tehnička arhitektura web aplikacije za sportske događaje sastoji se od korisničkog sučelja koje može biti mobilni uređaj ili računalo, web poslužitelja i baze podataka. Za pristup aplikaciji potreban je Internet, a ona se koristi preko web poslužitelja na kojem korisnik šalje zahtjeve i dobiva rezultate u obliku traženog sadržaja (Laravel + Bootstrap) sa podacima koji se prikupljaju iz baze podataka (MySQL).

Aplikacija će biti napravljena pomoću model-view-controller modela. Zadaću kontrolera i modela obavljat će Laravel koji će komunicirati s view-om, a njime će manipulirati Bootstrap framework. S druge strane Laravel će putem modela komunicirati sa MySQL bazom podataka.

U praktičnom primjeru to bi izgledalo na način da se korisničkim zahtjevom pošalje ruta na određeni Laravel Controller koji komunicira s podatkovnim modelom i dobiva potrebne informacije koje zatim prosljeđuje u View, gdje se pomoću Bootstrap komponenti nove informacije prikazuju na korisničkom sučelju.

*Slika 1. MVC arhitektura aplikacije*



*Izvor: izrada autora*

## Opis korištenih tehnologija

Što se tiče arhitekture sustava, odlučili smo se za troslojnu web aplikaciju, ona se sastoji od prezentacijskog, aplikacijskog i podatkovnog sloja. U našem slučaju za prezentacijski sloj i uređivanje izgleda aplikacije koristili bismo alat Bootstrap koji bi nadopunjavao Laravel kojim se definira logike sustava, odnosno procedura i pravila u aplikacijskom sloju. Za bazu podataka ili podatkovni sloj aplikacije koristili bismo MySQL koji će biti povezan s aplikacijskim slojem. Aplikacija će se razvijati u razvojnom okruženju Visual Studio Code.

Laravel je web framework otvorenog koda, baziran je na PHP-u, odnosno na Simphony framework-u. Razvijen je s ciljem razvoja web aplikacija pomoću model-view-controller (MVC) metode.

Bootstrap je HTML, CSS i Javascript biblioteka koja se fokusira na pojednostavljivanje razvoja web stranica, to je front-end framework otvorenog koda. Primarna svrha dodavanja ovog alata jest uređivanje izgleda korisničkog sučelja.

MySQL je relacijski sustav za upravljanje bazom podataka otvorenog koda. Relacijske baze podataka organiziraju podatke u jednu ili više tablica u kojima podaci trebaju biti međusobno povezani te se oni strukturiraju pomoću relacija.

# Use-case diagram

*Slika 2. Use-case dijagram*



*Izvor: izrada autora*

## 3.1 Registracija

**Opis akcije:** Novi korisnik vrši registraciju, odnosno unosi bitne informacije za kreiranje njegovog profila kako bi mogao izvršiti prijavu u sustav.

**Akteri:** Novi korisnik

**Preduvjeti:** Nema

**Tijek događaja:**

**G: Glavni uspješni scenarij:**

1. Korisnik odabire opciju za registraciju
2. Korisnik unosi Email
3. Korisnik unosi željeni Username
4. Korisnik unosi željenu Lozinku
5. Korisnik unosi Ime
6. Korisnik unosi Prezime
7. Korisnik unosi Mjesto stanovanja
8. Korisnik potvrđuje registraciju
9. Sustav mu javlja da je registracija uspjela

**A: Alternativne sekvence:** /

**Ograničenja:** Lozinka ne smije sadržavati manje od 6 znakova

**E: Sekvence s greškom:**

**E1: Email već postoji**

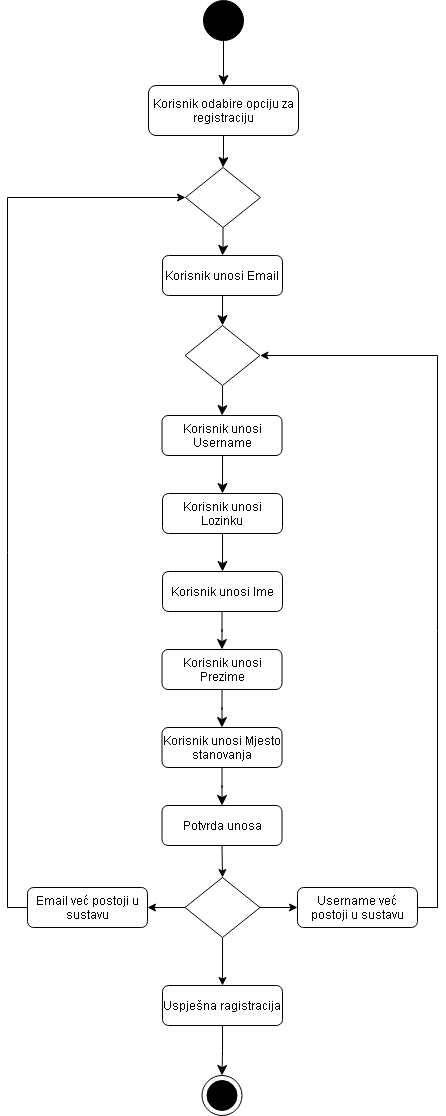
1. G8 – korisnik potvrđuje registraciju
2. Sustav javlja da postoji korisnik s tim Email-om
3. Sustav vraća korisnika na G2 – korisnik unosi Email

**E2: Username već postoji**

1. G8 – korisnik potvrđuje registraciju
2. Sustav javlja da postoji korisnik s tim Username-om
3. Sustav vraća korisnika na G3 – korisnik unosi Username

**Dijagram aktivnosti:**

*Slika 3 Dijagram aktivnosti za registraciju*

****

*Izvor: izrada autora*

## 3.2 Prijava

**Opis akcije:** Registrirani korisnik vrši prijavu u sustav tako što upisuje svoje korisničko ime i lozinku.

**Akteri:** Registrirani korisnik

**Preduvjeti:** Registracija mora biti obavljena

**Tijek događaja:**

**G: Glavni uspješni scenarij:**

1. Korisnik odabire opciju za prijavu
2. Korisnik unosi Username
3. Korisnik unosi Lozinku
4. Potvrda prijave
5. Prijava uspjela

**A: Alternativne sekvence:** /

**Ograničenja:** /

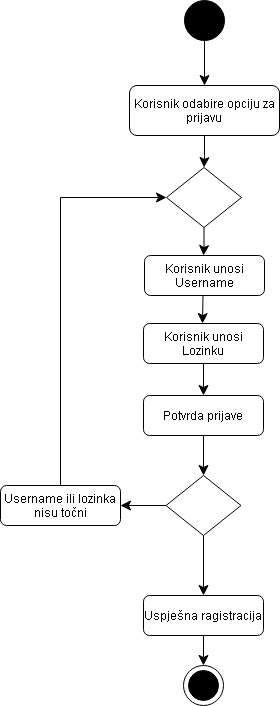
**E: Sekvence s greškom:**

**E1: Username ili lozinka nisu točni**

1. G3 – korisnik potvrđuje prijavu
2. Sustav javlja da Username ili Lozinka nisu točni
3. Sustav vraća korisnika na G1 – korisnik unosi Username

**Dijagram aktivnosti:**

*Slika 4 Dijagram aktivnosti za prijavu*



*Izvor: izrada autora*

## Pregled sportskih događaja

**Opis akcije:** Sustav vraća korisniku listu objavljenih sportskih događaja.

**Akteri:** Postojeći korisnik

**Preduvjeti:** Prijava mora biti izvršena

**Tijek događaja:**

**G: Glavni uspješni scenarij:**

1. Korisnik izvršava prijavu
2. Korisniku se prikazuje lista sportskih događaja
3. Korisnik sortira sportske događaje po željenom parametru
4. Sustav prikazuje sortiranu listu sportskih događaja

**A: Alternativne sekvence:** /

**Ograničenja:** /

**E: Sekvence s greškom: /**

**Dijagram aktivnosti:**

*Slika 5 Dijagram aktivnosti za pregled sportskih događaja*

****

*Izvor: izrada autora*

## Pregled sportskih događaja putem GPS tehnologije

**Opis akcije:** Sustav vraća korisniku listu sportskih događaja filtriranih na osnovi njegove GPS lokacije

**Akteri:** Postojeći korisnik

**Preduvjeti:** Prijava mora biti izvršena, aplikacija mora biti pokrenuta na uređaju koja podržava GPS tehnologiju

**Tijek događaja:**

**G: Glavni uspješni scenarij:**

1. Korisnik izvršava prijavu
2. Korisniku se prikazuje lista sportskih događaja
3. Korisnik odabire opciju za prikaz sportskih događaja u njegovoj blizini – putem GPS lokacije
4. Sustav prikazuje listu sportskih događaja u korisnikovoj blizini putem GPS tehnologije

**A: Alternativne sekvence:** /

**Ograničenja:** /

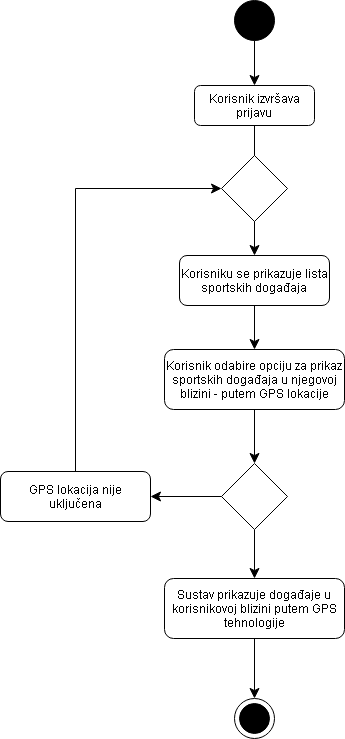
**E: Sekvence s greškom:**

**E1: GPS lokacija nije uključena na uređaju na kojem je pokrenuta aplikacija**

1. G3
2. Sustav javlja da GPS lokacija nije uključena
3. Sustav vraća korisnika na G2

**Dijagram aktivnosti:**

*Slika 6 Dijagram aktivnosti za pregled događaja putem GPS-a*



*Izvor: izrada autora*

## Prijava na sportski događaj

**Opis akcije:** Korisnik prijavljuje dolazak na određeni sportski događaj.

**Akteri:** Postojeći korisnik

**Preduvjeti:** Prijava mora biti izvršena

**Tijek događaja:**

**G: Glavni uspješni scenarij:**

1. Korisnik izvršava prijavu
2. Korisniku se prikazuje lista sportskih događaja
3. Korisnik odabire događaj na koji se želi prijaviti
4. Korisnik prijavljuje dolazak na željeni događaj

**A: Alternativne sekvence:** /

**Ograničenja:** /

**E: Sekvence s greškom: /**

**Dijagram aktivnosti:**

*Slika 7 Dijagram aktivnosti za prijavu na sportski događaj*

****

*Izvor: izrada autora*

## Upit/odgovor o sportskom događaju

**Opis akcije:** Korisnik vrši upit / odgovor na određeni sportski događaj

**Akteri:** Postojeći korisnik

**Preduvjeti:** Prijava mora biti izvršena

**Tijek događaja:**

**G: Glavni uspješni scenarij:**

1. Korisnik izvršava prijavu
2. Korisniku se prikazuje lista sportskih događaja
3. Korisnik odabire željeni sportski događaj
4. Korisnik šalje upit na odabrani sportski događaj

**A: Alternativne sekvence:**

**A1: Korisnik odgovara na upit o sportskom događaju**

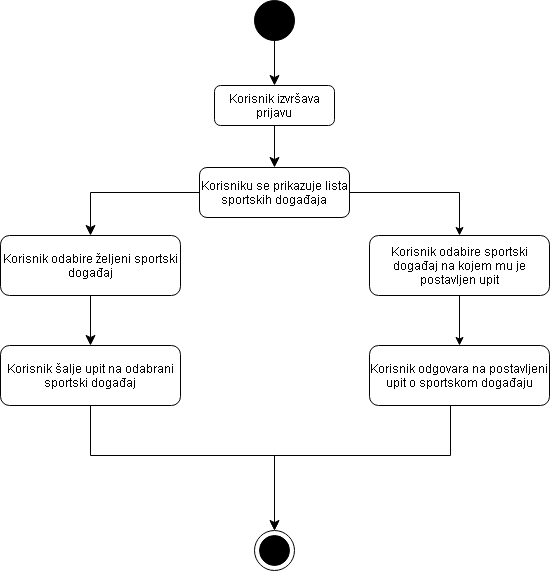
1. Korisnik izvršava prijavu
2. Korisniku se prikazuje lista sportskih događaja
3. Korisnik odabire sportski događaj na kojem mu je postavljen upit
4. Korisnik odgovara na upit o sportskom događaju

**Ograničenja:** Za odgovorit na upit , upit prvobitno mora biti postavljen

**E: Sekvence s greškom: /**

**Dijagram aktivnosti:**

*Slika 8 Dijagram aktivnosti za upit/odgovor o sportskom događaju*



*Izvor: izrada autora*

## Otkazivanje prijavljenog sportskog događaja

**Opis akcije:** Korisnik otkazuje prijavu za dolazak na određeni sportski događaj.

**Akteri:** Postojeći korisnik

**Preduvjeti:** Prijava mora biti izvršena, događaj prethodno mora biti prijavljen

**Tijek događaja:**

**G: Glavni uspješni scenarij:**

1. Korisnik izvršava prijavu
2. Korisniku se prikazuje lista sportskih događaja
3. Korisnik odabire događaj na koji se prijavio za dolazak
4. Korisnik otkazuje prijavu za dolazak na odabranom događaju

**A: Alternativne sekvence:** /

**Ograničenja:** /

**E: Sekvence s greškom: /**

**Dijagram aktivnosti:**

*Slika 9 Dijagram aktivnosti za otkazivanje prijavljenog događaja*

****

*Izvor: izrada autora*

## 3.7 Kreiranje sportskog događaja

**Opis akcije:** Korisnik kreira sportski događaj

**Akteri:** Postojeći korisnik

**Preduvjeti:** Prijava mora biti izvršena

**Tijek događaja:**

**G: Glavni uspješni scenarij:**

1. Korisnik odabire opciju za kreiranje sportskog događaja
2. Korisnik unosi Naziv sportskog događaja
3. Korisnik unosi Opis sportskog događaja
4. Korisnik unosi Lokaciju odvijanja sportskog događaja
5. Korisnik unosi Datum odvijanja sportskog događaja
6. Korisnik unosi Vrijeme početka odvijanja sportskog događaja
7. Korisnik unosi Vrijeme trajanja sportskog događaja
8. Korisnik unosi Maksimalan broj ljudi koji se mogu prijavit na događaj
9. Korisnik unosi Preduvjete za pohađanje sportskog događaja
10. Korisnik potvrđuje kreiranje sportskog događaja

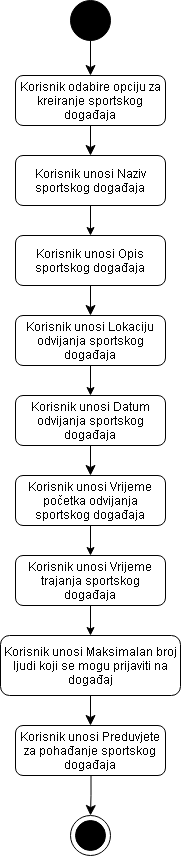
**A: Alternativne sekvence:** /

**Ograničenja:** Datum odvijanja sportskog događaja mora biti isti ili veći od dana kreiranja sportskog događaja

**E: Sekvence s greškom: /**

**Dijagram aktivnosti:**

*Slika 10 Dijagram aktivnosti za kreiranje sportskog događaja*

****

*Izvor: izrada autora*

## Brisanje/izmjena sportskog događaja

**Opis akcije:** Korisnik vrši brisanje/izmjenu kreiranog sportskog događaja.

**Akteri:** Postojeći korisnik

**Preduvjeti:** Prijava mora biti izvršena, događaj prethodno mora biti kreiran.

**Tijek događaja:**

**G: Glavni uspješni scenarij:**

1. Korisnik izvršava prijavu
2. Sustav prikazuje listu sportskih događaja
3. Korisnik odabire prikaz vlastito kreiranih događaja
4. Korisnik odabire željeni kreirani događaj
5. Korisnik briše odabrani kreirani događaj

**A: Alternativne sekvence:**

**A1: Izmjena stavke sportskog događaja**

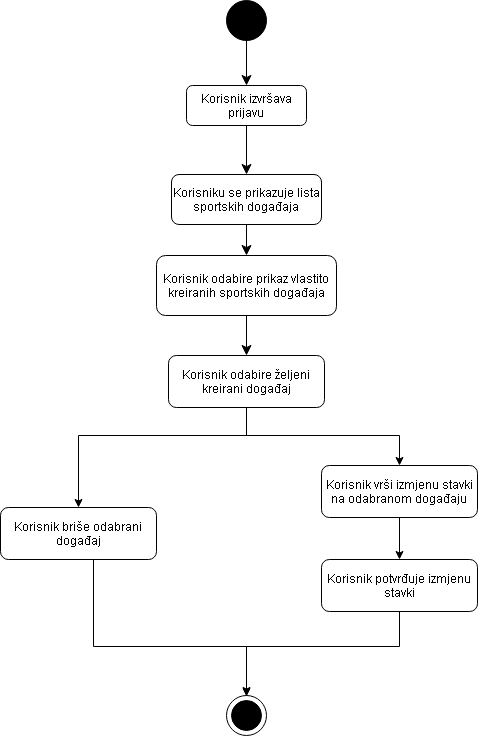
1. Korisnik izvršava prijavu
2. Sustav prikazuje listu sportskih događaja
3. Korisnik odabire prikaz vlastito kreiranih događaja
4. Korisnik odabire željeni kreirani događaj
5. Korisnik vrši izmjenu stavki na odabranom događaju
6. Korisnik potvrđuje izmjenu stavki

**Ograničenja:** /

**E: Sekvence s greškom: /**

**Dijagram aktivnosti:**

*Slika 11 Dijagram aktivnosti za brisanje/izmjenu sportskih događaja*

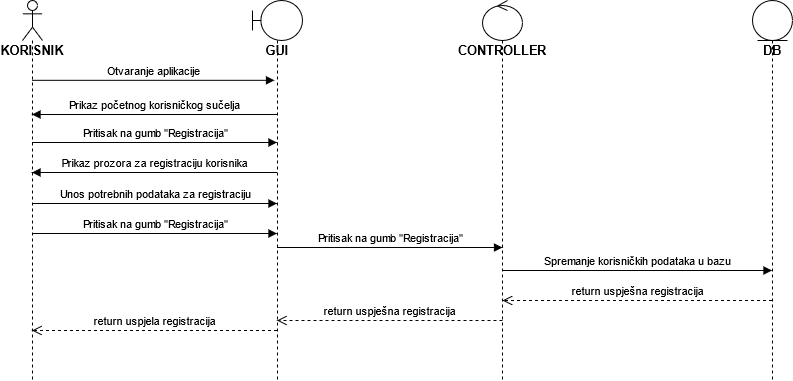


*Izvor: izrada autora*

# Sekvencijalni dijagrami

## Registracija

*Slika 12 Sekvencijalni dijagram, prikaz registracije korisnika*



*Izvor: izrada autora*

Ovim sekvencijalnim dijagramom prikazana je radnja registracije korisnika u aplikaciji. Nakon što korisnik otvori aplikaciju prikazuje mu se početno korisničko sučelje s događajima na početnoj stranici. Na početnoj stranici korisnik ima izbor pritiska na gumb „Registracija“ kojim se otvara forma za registraciju korisnika koju isti ispunjava i potvrđuje registraciju pritiskom na gumb. Time se njegovi podaci šalju sve do baze podataka koja sprema korisničke podatke te se korisniku vraća informacija kako je uspješno registriran.

## Prijava u sustav

*Slika 13 Sekvencijalni dijagram prijave korisnika u sustav*

Slika na kojoj se prikazuje stol

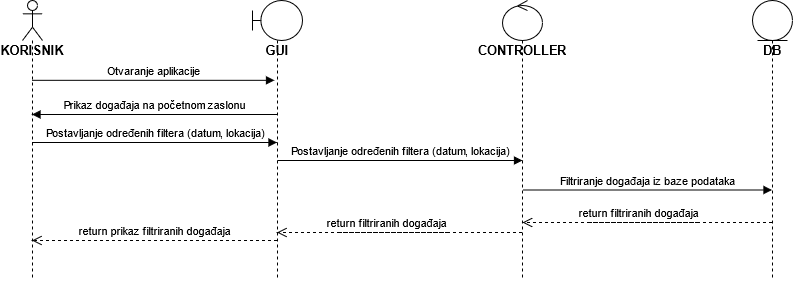
Opis je automatski generiran

*Izvor: izrada autora*

Na ovom sekvencijalnom dijagramu prikazan je postupak prijave korisnika u sustav. Tu radnju korisnik može provesti ukoliko se prethodno registrirao. Korisnik nakon ulaska u aplikaciju na početnom zaslonu odabire gumb „Prijavi se“. Otvara se prozor za prijavu u koji korisnik upisuje svoje podatke i pritiskom na gumb „Prijava“ oni se šalju do kontrolera i provjerava se njihova točnost iz baze podataka. Nakon toga se korisniku šalje povratna informacija je li prijava uspješno izvršena ili nije.

## Prikaz događaja

*Slika 14 Sekvencijalni dijagram, prikaz događaja i njihovo filtriranje*

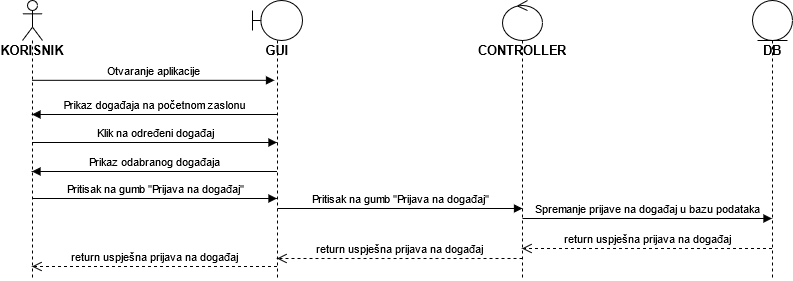


*Izvor: izrada autora*

Sekvencijalni dijagram prikazuje događaje i njihovo filtriranje u aplikaciji. Korisniku se događaji prikazuju čime uđe u aplikaciju te ih može filtrirati čime se iz baze provjeravaju događaji koji se podudaraju s filterima koje je korisnik postavio. Korisniku se prikazuju događaji koji odgovaraju njegovim željama.

## Prijava na događaj

*Slika 15 Sekvencijalni dijagram postupka prijave na događaj korisnika*

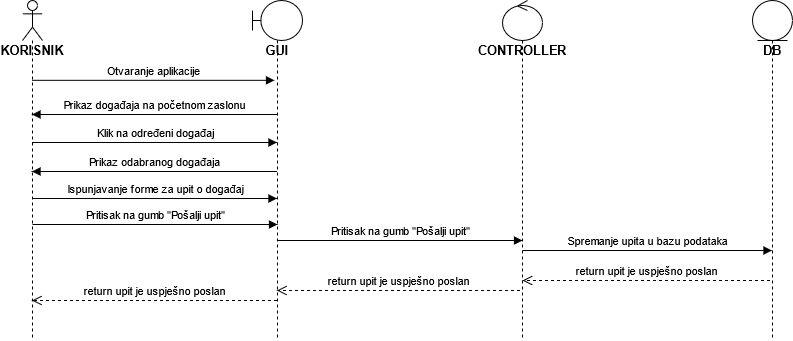


*Izvor: izrada autora*

Prijavu na neki događaj korisnik može napraviti ukoliko se prije prijavio u aplikaciju. Nakon toga odabire jedan od događaja na korisničkom sučelju i ulaskom u sam događaj odabire gumb „Prijava na događaj“, tom radnjom zabilježava se dolazak tog korisnika u bazi podataka i korisnik dobiva povratnu informaciju kako se uspješno prijavio na događaj.

## Upit/odgovor o sportskom događaju

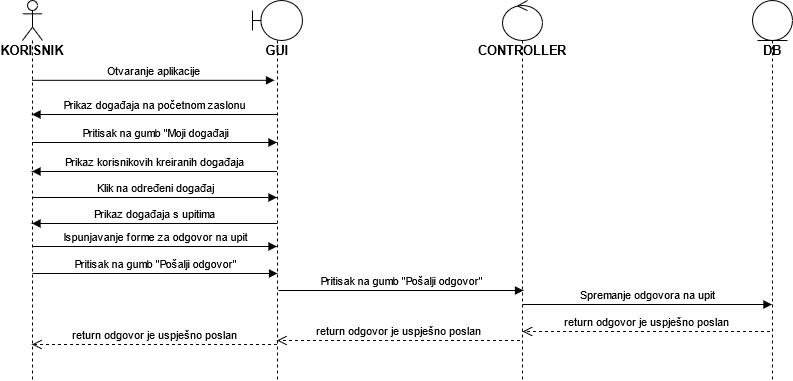
*Slika 16 Sekvencijalni dijagram postavljanja upita o pojedinom sportskom događaju*



*Izvor: izrada autora*

Kako bi korisnik poslao upit o određenom događaju također prvo mora biti prijavljen i treba na početnom korisničkom sučelju odabrati događaj na koji želi postaviti upit. Nakon otvaranja željenog događaja korisnik ima tekstualno područje u koje može napisati upit i ispod tog područja klikom na gumb „Pošalji upit“ isti i poslati. Upit se prosljeđuje sve do baze podataka u koju se sprema, a korisniku se vraća povratna informacija kako je upit uspješno poslan.

*Slika 17 Sekvencijalni dijagram prikazuje postupak odgovora na upit*

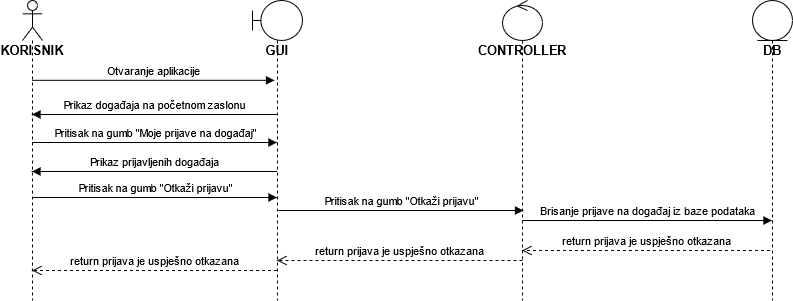


*Izvor: izrada autora*

Postupak za odgovor na upit također zahtjeva prethodnu prijavu korisnika te se na početnom zaslonu odabire gumb „Moji događaji“ te se odabire jedan od događaja. Ulaskom u događaj korisniku se prikazuju upiti ispod kojeg se prikazuje tekstualno područje za upis odgovora. Pritiskom na gumb „Pošalji odgovor“, odgovor se prosljeđuje do baze podataka i sprema se u nju te se prikazuje prilikom otvaranja događaja. Nakon što korisnik odgovori na upit dobiva informaciju kako je odgovor uspješno poslan.

## Otkazivanje prijavljenog sportskog događaja

*Slika 18 Sekvencijalni dijagram koji prikazuje postupak otkazivanja prijave na određeni sportski događaj*

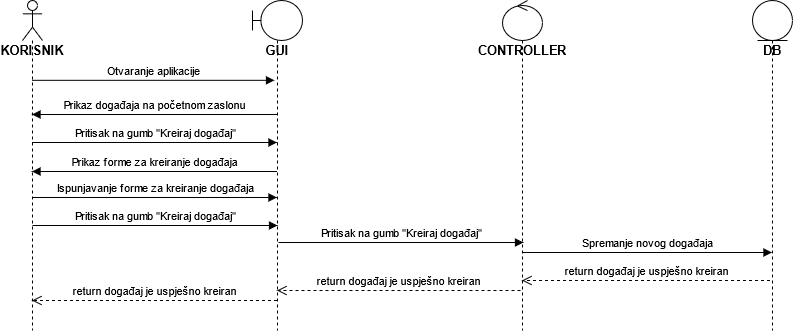


*Izvor: izrada autora*

Za ovaj korak također je potrebna prethodna prijava u aplikaciju, a zatim se na početnom zaslonu odabire gumb „Moje prijave na događaj“. Korisniku se prikazuju svi događaji na koje je prijavljen, a on odabire onaj koji želi otkazati i pritiskom na gumb „Otkaži prijavu“, korisnikova prijava se briše iz baze podataka te dobiva informaciju da je uspješno otkazao prijavu na događaj.

## Kreiranje sportskog događaja

*Slika 19 Sekvencijalni dijagram prikazuje postupak za kreiranje sportskog događaja*

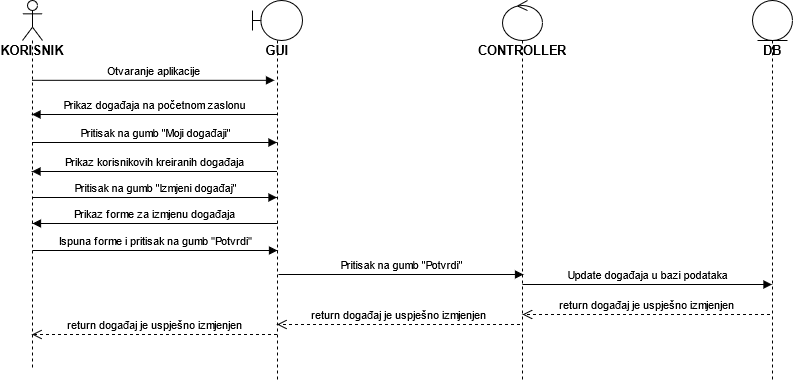


*Izvor: izrada autora*

Kreiranje sportskog događaja odvija se na način da se nakon otvaranja aplikacije i prijave u sustav na korisničkom zaslonu odabire gumb „Kreiraj događaj“. Korisniku se zatim otvara forma za kreiranje događaja koju korisnik ispunjava i odabire gumb „Kreiraj događaj“. Događaj se zatim šalje do kontrolera i baze podataka u koju se sprema. Korisniku se pojavljuje informacija da je događaj uspješno kreiran.

## Izmjena/brisanje sportskog događaja

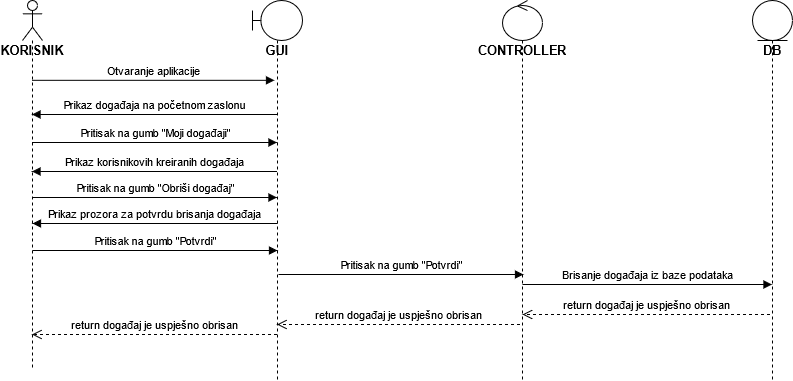
*Slika 20 Sekvencijalni dijagram prikazuje postupak izmjene sportskog događaja*



*Izvor: izrada autora*

Za ovaj korak također je potrebna prethodna prijava u aplikaciju, a zatim se na početnom zaslonu odabire gumb „Moji događaji“. Korisniku se prikazuju svi događaji koje je kreirao, a on odabire onaj koji želi izmijeniti i pritiskom na gumb „Izmjena događaja“, korisniku se otvara obrazac za izmjenu događaja nakon čije ispune je potrebno odabrati gumb „Potvrdi“. Izmijenjeni događaj prosljeđuje se od grafičkog sučelja do kontrolera i baze podataka u kojoj se postojeći događaj ažurira, a potom korisnik dobiva informaciju kako je željeni događaj uspješno izmijenjen.

*Slika 21 Sekvencijalni dijagram koji prikazuje postupak brisanja određenog sportskog događaja*

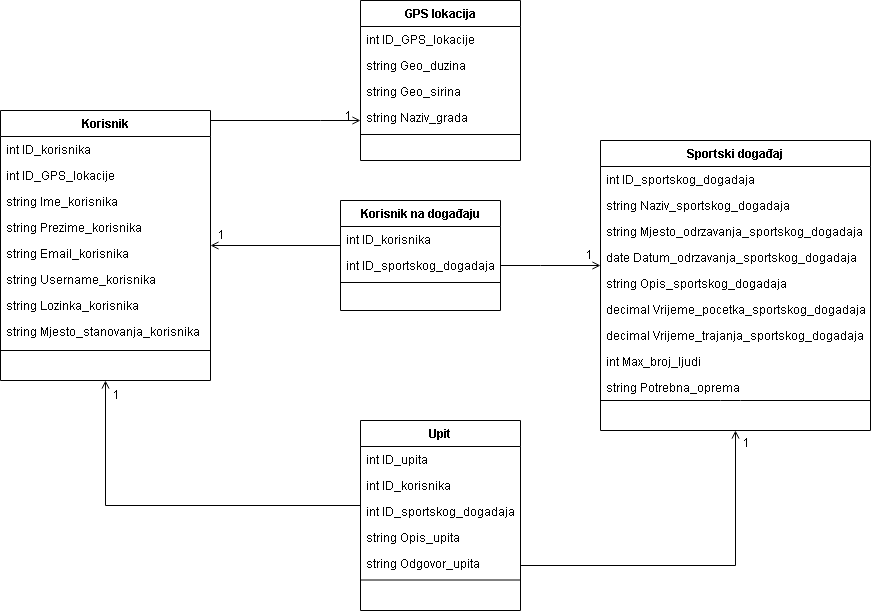


*Izvor: izrada autora*

Ovaj sekvencijalni dijagram prikazuje postupak brisanja sportskog događaja. Postupak je vrlo sličan izmjeni, razlika je jedino u tome što kada korisnik odabere na početnom zaslonu „Moji događaji“ uz željeni događaj pritiskom na gumb „Obriši događaj“ otvara se prozor u kojem korisnik treba potvrditi brisanje. Pritiskom na gumb „Potvrdi“ događaj se briše iz baze podataka i korisnik je obaviješten o uspješno provedenoj radnji.

# Dijagram klasa

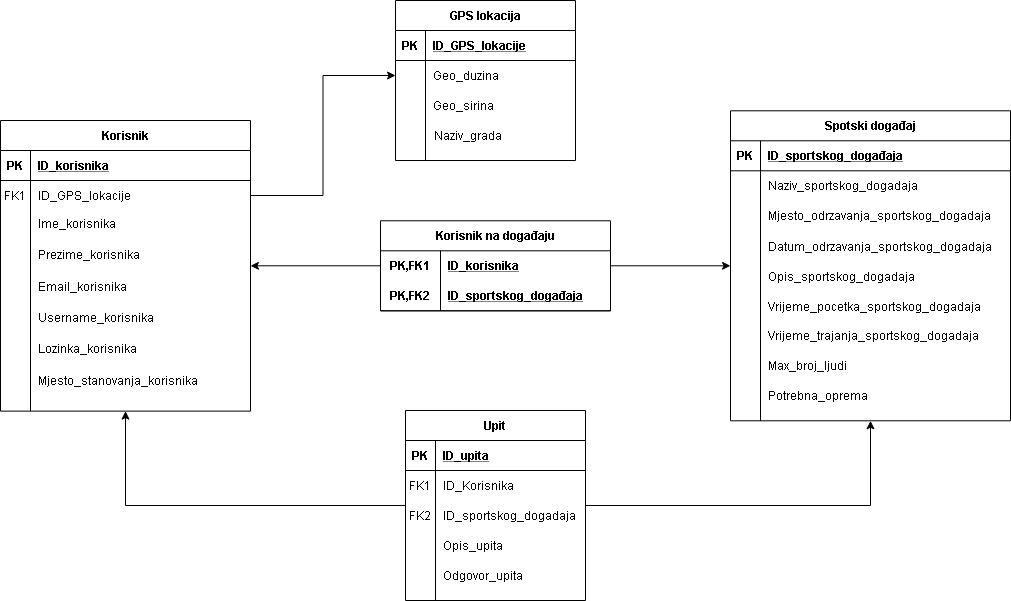
*Slika 22 Dijagram klasa*



*Izvor: izrada autora*

# Relacijski model

*Slika 23 Relacijski model*



*Izvor: izrada autora*

|  |  |  |
| --- | --- | --- |
| **Naziv sheme relacije**: Korisnik  **Opis sheme relacije**: relacija koja sadrži osnovne podatke o svakom korisniku kako bi se mogao registrirati u aplikaciju i koristiti sve njene funkcionalnosti  **Primarni ključ**: ID\_korisnika | | |
| **Naziv atributa** | **Opis atributa** | **Ograničenja** |
| ID\_korisnika | Primarni ključ sheme relacije korisnik, služi za raspoznavanje korisnika u sustavu ukoliko ih ima više. | Primarni ključ |
| Ime\_korisnika | Ime korisnika kako bi se znao tko organizira događaj | Atribut |
| Prezime\_korisnika | Prezime korisnika kako bi se znao tko organizira događaj | Atribut |
| Email\_korisnika | E-mail korisnika za eventualne kontakte. | Atribut |
| Username\_korisnika | Korisničko ime koje je potrebno za prijavu u sustav. | Atribut |
| Lozinka\_korisnika | Lozinka korisnika koju se mora upisati kako bi se dobio pristup. | Atribut |
| Mjesto\_stanovanja\_korisnika | Mjesto korisnika prema čemu bi se mogli sortirati događaji. | Atribut |
| ID\_GPS\_lokacije | Vanjski ključ, uzima se trenutna lokacija korisnika nakon njegovog dopuštenja. | Vanjski ključ  On update cascade, on delete restrict |

|  |  |  |
| --- | --- | --- |
| **Naziv sheme relacije**: Sportski događaj  **Opis sheme relacije**: relacija koja sadrži osnovne podatke o sportskom događaju na koji se korisnici mogu prijaviti i sudjelovati.  **Primarni ključ**: ID\_sportskog\_događaja | | |
| **Naziv atributa** | **Opis atributa** | **Ograničenja** |
| ID\_sportskog događaja | Primarni ključ sheme relacije sportskog događaja, služi za raspoznavanje svakog pojedinog sportskog događaja. | Primarni ključ |
| Naziv\_sportskog\_događaja | Kratki naziv sportskog događaja. | Atribut |
| Mjesto\_održavanja\_sportskog\_događaja | Mjesto na kojem će se održavati sportski događaj. | Atribut |
| Datum\_održavanja\_sportskog\_događaja | Datum kada će se održati sportski događaj. | Atribut |
| Vrijeme\_pocetka\_sportskog\_događaja | Vrijeme kada će započeti sportski događaj. | Atribut |
| Vrijeme\_trajanja\_sportskog\_događaja | Vrijeme koliko će trajati sportski događaj. | Atribut |
| Opis\_sportskog\_događaja | Opis sportskog događaja. | Atribut |
| Max\_broj\_ljudi | Maksimalan broj ljudi koji može biti na sportskom događaju. | Atribut |
| Potrebna oprema | Oprema koju je potrebno imati za sudjelovanje u sportskom događaju. | Atribut |

|  |  |  |
| --- | --- | --- |
| **Naziv sheme relacije**: Upit  **Opis sheme relacije**: relacija koja sadrži upite korisnika o određenom sportskom događaju na koje organizator može i odgovoriti.  **Primarni ključ**: ID\_upita | | |
| **Naziv atributa** | **Opis atributa** | **Ograničenja** |
| ID\_upita | Primarni ključ sheme relacije upit, služi za raspoznavanje upita, odnosno kako bi se svaki upit jednoznačno mogao rapoznavati. | Primarni ključ |
| ID\_korisnika | Primarni ključ sheme relacije korisnik, služi za raspoznavanje korisnika u sustavu ukoliko ih ima više. | Vanjski ključ  On update cascade, on delete restrict |
| ID\_sportskog događaja | Primarni ključ sheme relacije sportskog događaja, služi za raspoznavanje svakog pojedinog sportskog događaja. | Vanjski ključ  On update cascade, on delete restrict |
| Opis\_upita | Opis upita, odnosno pitanje korisnika o nekom događaju. | Atribut |
| Odgovor\_upita | Odgovor na postavljeni upit. | Atribut |

|  |  |  |
| --- | --- | --- |
| **Naziv sheme relacije**: GPS\_lokacija  **Opis sheme relacije**: relacija koja sadrži upite korisnika o određenom sportskom događaju na koje organizator može i odgovoriti.  **Primarni ključ**: ID\_GPS\_lokacija | | |
| **Naziv atributa** | **Opis atributa** | **Ograničenja** |
| ID\_GPS\_lokacije | Primarni ključ sheme relacije GPS lokacija, služi za raspoznavanje lokacije. | Primarni ključ |
| Geo\_duzina | Geografska dužina mjesta | Atribut |
| Geo\_sirina | Geografska širina mjesta. | Atribut |
| Naziv\_grada | Naziv grada prema koordinatama | Atribut |

|  |  |  |
| --- | --- | --- |
| **Naziv sheme relacije**: Korisnik na događaju  **Opis sheme relacije**: shema relacije koja je agregacija shema korisnik i sportski događaj, služi za prikaz svih korisnika na nekom događaju ili prikaz svih događaja na kojem je bio neki korisnik  **Primarni ključ**: ID\_GPS\_lokacija | | |
| **Naziv atributa** | **Opis atributa** | **Ograničenja** |
| ID\_korisnika | Primarni ključ sheme relacije korisnik, služi za raspoznavanje korisnika u sustavu ukoliko ih ima više. | Primarni i vanjski ključ  On update cascade, on delete restrict. |
| ID\_sportskog\_događaja | Primarni ključ sheme relacije sportskog događaja, služi za raspoznavanje svakog pojedinog sportskog događaja. | Primarni i vanjski ključ  On update cascade, on delete restrict. |

# Mapiranje elemenata (metoda, akcija i ruta)

Kako bismo kod koji pišemo u Laravelu prikazali na sučelju, one moraju biti zapisane u API rutama koje se nalaze unutar projekta u datoteka api.php i web.php. Te rute pozvane su iz pojedinih kontrolera ovisno o funkciji koju izvode. Laravel omogućava i postavljanje imena za svaku rutu kako se ne bi trebao pamtiti URL put te time pojednostavljuje korištenje.

Pozivom svake navedene rute izvršava se neka metoda koju smo implementirali u kontroleru. To mogu biti metode za kreiranje, pohranjivanje, uređivanje, ažuriranje ili brisanje podataka te se ovisno o tome i koristi određeni HTTP zahtjev.

## Registracija

|  |  |  |
| --- | --- | --- |
| HTTP zahtjev | URL | Metoda |
| GET | /registracija/create | create |
| POST | /registracija | store |

Za funkcionalnost registracije napravljene su dvije metode, create i store. Unutar metode store napravljena je i validacija podataka za lozinku i e-mail na način da lozinka ne smije imati manje od 8 znakova, a e-mail treba biti jedinstven, odnosno ne može se napraviti registracija dva puta s istim e-mailom, dok metoda create služi za otvaranje sučelja na kojem se prikazuje forma za registraciju.

## Autentikacija

|  |  |  |
| --- | --- | --- |
| HTTP zahtjev | URL | Metoda |
| GET | /login | auth |

U metodi „auth“ provjerava se podudaranje unesenog e-maila i lozinke s podacima koje je korisnik upisao prilikom registracije.

## Događaji

|  |  |  |
| --- | --- | --- |
| HTTP zahtjev | URL | Metoda |
| GET | /novidogadaj/create | create |
| POST | /novidogadaj/store | store |
| GET | /dogadaji | show |
| GET | /mojidogadaji | moji\_dogadaji |
| GET | /mojidogadaji/{id}/izmjena | edit |
| PUT | /mojidogadaji/{id}/ | update |
| GET | /prijavljenidogadaji | prijavljeni\_dogadaji |
| GET | /dogadaji | filter\_datum |
| GET | /dogadaji | filter\_mjesto |
| DELETE | /mojidogadaji | delete |

Za događaje se planira napraviti osnovne CRUD metode uz prikaze mojih događaja i prijavljenih događaja. Kod metode moji\_dogadaji postavljen je uvjet da se prikažu samo događaji koje je napravio prijavljeni korisnik. Metoda prijavljeni\_dogadaji služi za prikaz samo onih događaja na koje je korisnik prijavio dolazak. Dok se u prikazu svih događaja u metodi show također napravio uvjet da se korisniku ne prikazuju oni događaji koje je već prijavio. Kod kreiranja novih događaja napravljena je validacija da niti jedno polje ne smije ostati prazno, a za datum i vrijeme odvijanja događaja ne može se postaviti datum i vrijeme koji su manji od trenutnog datuma i vremena. Metode filter\_vrijeme i filter\_datum služe za filtriranje događaja na početnoj stranici te prikazuju filtrirane događaje ovisno o korisnikovim željama.

## Upiti

|  |  |  |
| --- | --- | --- |
| HTTP zahtjev | URL | Metoda |
| GET | /dogadaji/{id}/upit | create |
| POST | /dogadaji/{id} | store |
| GET | /inbox | show |
| GET | /inbox/{id}/odgovor | edit |
| GET | /inbox/{id} | update |
| GET | /inbox | redirect\_primatelj |
| GET | inbox | redirect\_posiljatelj |

Za upite ćemo koristiti osnovne funkcije uz dvije metode redirect koje će služiti za preusmjeravanje upita i odgovora do primatelja i pošiljatelja. To bi u praksi trebalo funkcionirati na način da se kod postavljanja upita za određeni događaj atribut odgovor u bazu podataka sprema kao null i šalje se u inbox korisniku koji je napravio događaj. Kada korisnik otvori upit pojavljuje mu se forma za unos odgovora na upit. Kada se odgovor ispuni i pošalje, tada se on pojavljuje u inboxu korisnika koji je inicijalno postavio upit.

# Testiranje aplikacije

## Automated testing – PHPUnit

PHPUnit je testni framework koji služi za testiranje koda u PHP programskom jeziku. Smatra se jednim od najboljih PHP frameworka u 2019. godini za automatizaciju testiranja, namijenjen jedinstvenom testiranju aplikacije razvijene korištenjem PHP jezika. Baš kao i JUnit, to je instanca xUnit-a i radi gotovo na sličan način. Sebastian Bergmann stvorio je okvir s ciljem da pomogne programerima da otkriju pogreške u njihovom kodiranju.

PHPUnit se temelji na ideji da bi programeri trebali moći brzo pronaći pogreške u svom novoodređenom kodu i utvrditi da se nije dogodila regresija koda u drugim dijelovima baze podataka. Slično kao i drugi frameworci za jedinstveno testiranje, PHPUnit koristi tvrdnje kako bi potvrdio da se ponašanje određene komponente - ili "jedinice" - koja se testira ponaša prema očekivanjima.

Cilj jedinstvenog testiranja je izolirati svaki dio programa i pokazati da su pojedini dijelovi točni. Jedinstveni test pruža strogi pisani ugovor koji dio koda mora zadovoljiti. Kao rezultat, jedinični testovi pronalaze probleme na početku razvojnog ciklusa.

PHPUnit može dati rezultate testa u više različitih formata, uključujući JUnit XML i TestDox. Također 2017. godine otkrivena je ranjivost koja je napadačima omogućila izvršavanje udaljenog koda putem PHPUnit-a. Slanjem velike količine PHP koda u datoteku koja je dio PHPUnit-a, napadač su mogli izvršiti PHP kod na web poslužitelju.

Postupak implementacije:

1. Instalacija PHPUnita putem composera

Otvorimo terminal i napišemo kod za instalaciju PHPUnita:

*Slika 24 Instaliranje PHPUnit-a*

![Text

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGtvcmlzbmlrAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNTcAAJKSAAIAAAADNTcAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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*Izvor: izrada autora*

1. Napravila se konfiguracijska datoteka phpunit.xml i repozitorij test u kojem se spremaju testovi

*Slika 25 XML konfiguracijska datoteka*

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*Izvor: izrada autora*

*Slika 26 Test repozitorij*

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AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFADZPuGoamk+4ahpAFFFFAH//Z)

*Izvor: izrada autora*

1. Mi ćemo koristiti feature testing koje testira opcije za pregled ruta i dohvaćanja određenih stranica, tako da ćemo kreirati novi test komandom:

*Slika 27 Komanda za izradu Feature Testa*



*Izvor: izrada autora*

Ova komanda stvorit će datoteku unutar Test repozitorija u feature mapi.

1. U novom file-u dodamo rutu ili rute koje želimo testirati, za nas slučaj to će biti pregled događaja.

*Slika 28 Testiranje rute - pregled događaja*

![Text

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGtvcmlzbmlrAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNDMAAJKSAAIAAAADNDMAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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*Izvor: izrada autora*

1. Napišemo komandu za početak testiranja : vendor/bin/phpunit, i dobijemo rezultat u terminalu

*Slika 29 Greška kod pokretanja testa*

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*Izvor: izrada autora*

Dolazi nam greška jer nam ne prikazuje događaje. To je zato jer nismo logirano kao user, što znači da nema svatko pristup tim događajima. Zato moramo napraviti instancu Usera unutar testnog scenarija.

*Slika 30 Popravak koda za pokretanje testa s kreiranom instancom User*

![Text

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGtvcmlzbmlrAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMTgAAJKSAAIAAAADMTgAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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*Izvor: izrada autora*

Nakon toga opet pokrenemo kod i dobijemo uspješan test:

*Slika 31 Test je uspješno proveden*

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Description automatically 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dqLnWNTvLGKyu9Ru57SHHlQSzs0ceBgYUnAwDgY7VTooAmlvLma1gtpriaS3t93kxO5Kxbjlto6DJ5OOtTXOsaneWMVld6jdz2kOPKglnZo48DAwpOBgHAx2qnRQBcudY1O8sYrK71G7ntIceVBLOzRx4GBhScDAOBjtU934k1y/tXtr/WdQubd8b4prp3VsHIyCcHkA1mUUAaF9rE9/p1jYMqRWtirCKNGYjc2N7/ADMcFioJAwuckAZOc+iigCZ7y5kkuJHuJme6z57FyTNlgx3H+L5gDz3ANXR4k1wWsVsNZ1AW8Ozy4hdPtTYQUwM4G0gEemBisyigCb7Zc+T5X2iby/L8rZvO3Zv37cem/wCbHTPPWprnWNTvLGKyu9Ru57SHHlQSzs0ceBgYUnAwDgY7VTooAfNNLcTyTXEjyyyMXeR2LM7E5JJPUk960NU1K2urW0s9MtZrSztt7+XNOJmeVyNzlgi9VWNcAYGzPUknMooAmlvLma1gtpriaS3t93kxO5Kxbjlto6DJ5OOtQ0UUAad34k1y/tXtr/WdQubd8b4prp3VsHIyCcHkA0XfiTXL+1e2v9Z1C5t3xvimundWwcjIJweQDWZRQBNLeXM1rBbTXE0lvb7vJidyVi3HLbR0GTycdamudY1O8sYrK71G7ntIceVBLOzRx4GBhScDAOBjtVOigC5c6xqd5YxWV3qN3PaQ48qCWdmjjwMDCk4GAcDHaqdFFAEz3lzJJcSPcTM91nz2LkmbLBjuP8XzAHnuAatX+vaxqkCw6nqt9eRK28R3Fy8ihsEZwSecE8+9Z9FABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBJbwSXVzFbwLullcIi5AyxOAOa3P+EG8Rf9A7/yPH/8VWLaXv8AZt9BfeX5n2WRZtm7G7ac4z26V7GHvNO1CyS5vWvVvpTEytGqCJhG8mU2jO35CNrFjyPm4O6JSa2PKx+Lq4drktrfe/Q82/4QbxF/0Dv/ACPH/wDFUf8ACDeIv+gd/wCR4/8A4qvQvDWpXetabY3Ly7Ujgj88lQHnlMYJyuPkUbsjgFsgjC4371ZupJHmVM2xNOXK1G/z/wAzx/8A4QbxF/0Dv/I8f/xVH/CDeIv+gd/5Hj/+Kr07TZZL65ub13YRJLJbQRA4ACNtdmHdi6tg84ULjBLZq6dczprpsje3d3H5UjSG9t1iKsrIB5eETep3NkjcBheRkbn7SQ/7VxOukdPJ/wCZ53/wg3iL/oHf+R4//iqP+EG8Rf8AQO/8jx//ABVeuymQQuYVV5Ap2K7bQT2BODge+D9KyfD17qt7DK+pQWyxrPcIJI5yzZWZlC7fLUYAGN2cnAJHJwvaSJWbYlxcrR09f8zzj/hBvEX/AEDv/I8f/wAVR/wg3iL/AKB3/keP/wCKrt9H8ax6rqFnAIbZY77f5Iivklmj2gsPNjH3MqCeC2DgHGa0NL1u41Xzzbw2X7uPIi+2kzRufupMgT92eCDy2CCOafPI1nmWMh8UY/18zzj/AIQbxF/0Dv8AyPH/APFUf8IN4i/6B3/keP8A+Kr0fw9e6rewyvqUFssaz3CCSOcs2VmZQu3y1GABjdnJwCRycO0bWpNXmkxHaJHGoLIl3vniJ6LLHsGxuDkbjggjnrRzyJlmmKi37sdP67nm3/CDeIv+gd/5Hj/+Ko/4QbxF/wBA7/yPH/8AFV7BRS9ozH+2sR2X4/5nj/8Awg3iL/oHf+R4/wD4qj/hBvEX/QO/8jx//FV6Jp1zOmumyN7d3cflSNIb23WIqysgHl4RN6nc2SNwGF5GRu3KPaMueb4mDs1H7n/meP8A/CDeIv8AoHf+R4//AIqj/hBvEX/QO/8AI8f/AMVXpNlr8N5rs2mr5BeNZGHlXCyOoRgreYo+4SWG0ZJIznaRijRtak1eaTEdokcagsiXe+eInossewbG4ORuOCCOetPnkU80xaTbitP67nm3/CDeIv8AoHf+R4//AIqj/hBvEX/QO/8AI8f/AMVXpOja1Jq80mI7RI41BZEu988RPRZY9g2NwcjccEEc9azdH8ax6rqFnAIbZY77f5Iivklmj2gsPNjH3MqCeC2DgHGaOeRX9pYzX3Vpv/VziP8AhBvEX/QO/wDI8f8A8VR/wg3iL/oHf+R4/wD4qvR9K1q91OzgnOl+QLq0+0W+6bcucL8rsFwmSwK43EqCSFI20eHr3Vb2GV9SgtljWe4QSRzlmyszKF2+WowAMbs5OASOTg55ClmmKim2o6f13POP+EG8Rf8AQO/8jx//ABVH/CDeIv8AoHf+R4//AIqvR/DpuA2qR3hkMyXzble6M6pujRwqEopCgPgLjjnmotO8Q3d5Lp0lxpf2ez1Pd9mlFwHcfKXTemBt3IpPBbHQ0c8geaYq7so6f5X7nnv/AAg3iL/oHf8AkeP/AOKo/wCEG8Rf9A7/AMjx/wDxVej6Nr0up/YzcWP2UX1p9qgHnBztGzduwABzIu3BOR12ninaNrUmrzSYjtEjjUFkS73zxE9Flj2DY3ByNxwQRz1o55BLNMXG94x0/rueZXHg3XrW2luJ7DbFEhd286M4UDJPDVh169eyyQ6Tr2mTO0v2eyaWF2O5jE6OAGY8lgyOM/3duSTk15DVxk3uergcVUxEZOdtOwUUUVZ6IUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBb0kQHWrIXgjNubiPzRLjZt3DO7PGMdc16tbXOiQXCyzeIIrvys/Z1uLuNhBkY4IwWOONzFmxnn5mz49RUyjzHBi8EsS03Kx7DZz+H7COzW21m1U2kC2+77VHmWNVwqv2ODyDwQc4wGYG/8A2/o//QWsf/AlP8a8PoqPZnDLJoSd3NnsNjq2mWN5cQrqdi1pNI1xEwuo/wB0zEF0IJycsWcHn7zD5Qq5LS70i3vBdXPiSK9mWNo42nuIB5asQWACBQclV65+7xjnPj1FP2ZTyiD+2/uR7h/b+j/9Bax/8CU/xqlaX2jWVzK8PiCDyJGd/srXEJjRmbczA43ZLFjyxHzHjpjy/wASWkFh4r1aztE8u3t72aKJMk7VVyAMnk8DvWZS9miVk0Erc7/A9c02TSNK8qO28UhrSHIjtJbqB0VTnC7iu/Azx83YDpUtpd6Rb3gurnxJFezLG0cbT3EA8tWILABAoOSq9c/d4xznx6in7Mp5TFttzevkj2O0vtGsrmV4fEEHkSM7/ZWuITGjM25mBxuyWLHliPmPHTDbS70i3vBdXPiSK9mWNo42nuIB5asQWACBQclV65+7xjnPj1FL2Yv7Ij/O/uR69YalZQ6tqN5da7ZmO5ZBDb/b1kSMICNwzjaWyMqM8jO4540v7f0f/oLWP/gSn+NeH0UezQpZNCTu5s9htLvSLe8F1c+JIr2ZY2jjae4gHlqxBYAIFByVXrn7vGOc3/7f0f8A6C1j/wCBKf414fRR7NBLJoSes39yPWdPXQdO1KO7j8RJKsNsbWC3ku4jHDHlThQADn5VGSSSAMk1YtLvSLe8F1c+JIr2ZY2jjae4gHlqxBYAIFByVXrn7vGOc8H4z0my0n+wP7Ph8r7ZottdT/Ozb5X3bm5JxnA4HFafxX8PaX4a8V21nolr9mt3sllZPMZ8sXcE5Yk9FFP2fmW8pUt5v7kdTaXekW94Lq58SRXsyxtHG09xAPLViCwAQKDkqvXP3eMc5i02TSNK8qO28UhrSHIjtJbqB0VTnC7iu/Azx83YDpXkdFHsxf2TG1ud/cj2iw1PQ9P022sodXs2jtoliQvcoSQoAGeevFRWl9o1lcyvD4gg8iRnf7K1xCY0Zm3MwON2SxY8sR8x46Y8crTgtIH8KX94yZuIb22iR8nhXScsMdOSi/l9aXsxf2PDX33r6HpNhLpdjey3H/CWCfzpPMljlnttsjbAgJ2oCMBV6EdPrUVjB4fsLi1dfEYmhst/2S2mvozHBuBHGMM2FJUbi2ATivKKKfs/Mr+yl/O/uR7DZz+H7L7B5Ws2p+wWhtIt11Hyh2cn3/dr0x1PFFpd6Rb3gurnxJFezLG0cbT3EA8tWILABAoOSq9c/d4xznx6tPxJaQWHivVrO0Ty7e3vZookyTtVXIAyeTwO9Hs/MX9kRf239yPQLvUtPl0fWbubULP7XeWrJHAtyjNHGqNsj4OC25nY4zy+MsADXllafiS0gsPFerWdonl29vezRRJknaquQBk8ngd6zKqMbHfhcKsMmk73CiiiqOwKKKKACitPxJaQWHivVrO0Ty7e3vZookyTtVXIAyeTwO9HiS0gsPFerWdonl29vezRRJknaquQBk8ngd6AMyiitPSrSC503WpZk3Pa2SywnJG1jcQpn3+V2HPrQBmUUUUAFFFafiS0gsPFerWdonl29vezRRJknaquQBk8ngd6AMyiiigAooooAKKK0/ElpBYeK9Ws7RPLt7e9miiTJO1VcgDJ5PA70AZlFFFABRRRQAUUUUAPhhluJ44beN5ZZGCJGilmdicAADqSe1ac3hXxDbwSTXGg6nFFGpd5Hs5FVFAySSRwAO9P8H/8jzoX/YRt/wD0YtfSvjD/AJEbXf8AsHXH/otqAPlGiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAP/9k=)

*Izvor: izrada autora*

Instanca simulira ulogiranog usera , te tako pretražujemo i testiramo sve rute za koje je potrebno biti ulogiran kao User.

Za testiranje specifičnih funkcija koje zahtijevaju nekakvo računanje ili kalkuliranje (mogu biti i CRUD operacije) koristimo Unit testing koji se izvodi na isti način kao i Feature , samo se funkcija definira u datoteci unutar Unit foldera. Također Unit testing nam služi za testiranje modela, odnosno testiramo upisivanje podataka u njih.

### PHPUnit Feature testing

Nakon primjera koji smo izveli za Feature testing, a kojim smo testirali ispravnost rute, odlučili smo se napraviti testiranje upisa svih podataka u bazu podataka te smo kreirali test za izradu događaja, upita, registracije i prijave na događaje, ali i test s kojim se provjerava prijava u aplikaciju s ispravnim ili neispravnim korisničkim podacima.

1. U testu za izradu događaja kreirali smo instancu User kako je napisano i za ogledni test, nakon toga smo pozvali metodu POST i rutu koja slijedi nakon spremanja određenog događaja u bazu podataka te dali vrijednosti svim atributima iz tablice događaja. Očekivani rezultat testa je 200, odnosno da je test uspješno proveden.

*Slika 32 Kod za testiranje izrade događaja*

Slika na kojoj se prikazuje tekst

Opis je automatski generiran

*Izvor: izrada autora*

1. U testu za izradu upita također je kreirana instanca Usera te se koristi POST metoda, daju se vrijednosti svim atributima iz tablice Upit te se kao rezultat testa očekuje potvrda i preusmjeravanje korisnika na sve događaje, kako to izgleda i u aplikaciji.

*Slika 33 Kod za testiranje izrade upita*

Slika na kojoj se prikazuje tekst

Opis je automatski generiran

*Izvor: izrada autora*

1. Test za izradu korisnika, odnosno registracije sastoji se samo od varijable „response“ u kojoj se poziva POST metoda i odgovarajuća ruta, varijabli su proslijeđeni vrijednosti atributa iz tablice User te se kao rezultat testa očekuje preusmjeravanje korisnika na početnu stranicu aplikacije.

*Slika 34 Kod za testiranje registracije, odnosno izrade korisnika*

Slika na kojoj se prikazuje tekst

Opis je automatski generiran

*Izvor: izrada autora*

1. Test za izradu prijave korisnika na događaj opet koristi instancu User te pozivom odgovarajuće metode, rute i davanjem vrijednosti atributima iz tablice „User\_on\_dogadaj“ očekujemo da će se test provesti uspješno.

*Slika 35 Kod za testiranje izrade korisnika na događaju*

Slika na kojoj se prikazuje tekst

Opis je automatski generiran

*Izvor: izrada autora*

1. Test za prijavu s ispravnim korisničkim podacima daje varijabli „response“ vrijednosti za atribute email-a i lozinke te se očekuje da će test biti uspješno proveden, a korisnik preusmjeren na početnu stranicu.

*Slika 36 Kod za testiranje prijave s ispravnim korisničkim podacima*

Slika na kojoj se prikazuje tekst

Opis je automatski generiran

*Izvor: izrada autora*

1. Testiranje prijave s pogrešnim korisničkim podacima napravljeno je jednako kao u prethodnom primjeru, no izmijenjen je email jednog od registriranih korisnika te se od ovog testa očekuje potvrda tvrdnje da test ima grešku u atributu email-a.

*Slika 37 Kod za testiranje prijave s pogrešnim korisničkim podacima*

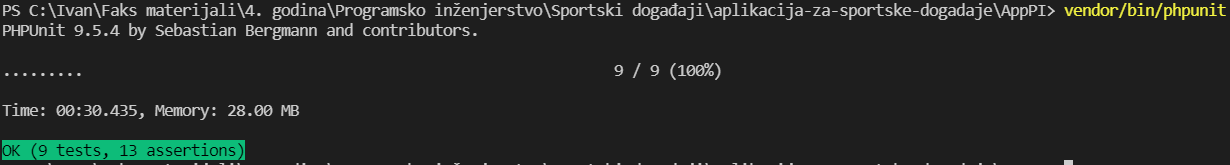
Slika na kojoj se prikazuje tekst

Opis je automatski generiran

*Izvor: izrada autora*

1. Nakon što su testiranja pokrenuta naredbom vendor/bin/phpunit, dobijemo rezultat da su svi testovi uspješno provedeni i sve tvrdnje potvrđene.

*Slika 38 Svi testovi uspješno provedeni*



*Izvor: izrada autora*

Kao negativnu stranu ovog načina testiranja izdvojili bismo veliku redundanciju podataka iz razloga što svaki put kada se test pokrene, u bazi podataka se napravi novi zapis za svaku tablicu koju test obuhvaća te se time nagomilavaju podaci i povećava se memorija baze podataka. Također kod ponavljanja testova, test registracije ne radi kada se ponovi drugi put, a ukoliko testni primjerak nije izbrisan iz baze jer je u aplikaciji postavljen uvjet kako se ne mogu registrirati dva korisnika s istom e-mail adresom.

## Testiranje sigurnosti

Testiranje sigurnosti softvera koristimo kako bismo osigurali da podaci unutar nekog informacijskog sustava ostaju sigurni i da im neodobreni korisnici ne mogu pristupiti, koristimo sigurnosno testiranje. Uspješno sigurnosno testiranje štiti web aplikacije od ozbiljnog zlonamjernog softvera i drugih zlonamjernih prijetnji koje bi mogle dovesti do pada ili neočekivanog ponašanja.

Ispitivanje sigurnosti softvera postupak je procjene i testiranja sustava radi otkrivanja sigurnosnih rizika i ranjivosti sustava i njegovih podataka.

Sigurnosno testiranje provodi se proizvoljno, ovisno o tome što korisnik točno želi testirati, to mogu biti:

* Procjene ranjivosti (Vulnerability Assessment) – skeniranje sustava i analiziranje sigurnosnih problema
* Ispitivanje prodora (Penetration testing) – sustav prolazi analizu i napad simuliranih zlonamjernih napadača
* Runtime test – sustav prolazi analizu i sigurnosno testiranje krajnjeg korisnika
* Pregled koda (Code Review) – sistemski kod prolazi kroz detalnji pregled i analizu tražeći posebno sigurnosne ranjivosti

### Zed Attack Proxy

Za testiranje sigurnosti odlučili smo isprobati alat Zed Attack Proxy. To je besplatni alat za testiranje penetracije otvorenog koda koji se održava pod okriljem projekta Open Web Application Security Project (OWASP). ZAP je dizajniran posebno za testiranje web aplikacije. ZAP se nalazi između preglednika testera i web aplikacije tako da može presretati i pregledavati poruke poslane između preglednika i web aplikacije. Po potrebi može mijenjati sadržaj i zatim prosljeđivati te pakete na odredište.

Zed Attack Proxy pruža funkcionalnosti koje pokrivaju raspon razina vještina od programera, ljudi koji se tek upoznaju sa testiranjem softvera do specijalista za softversko testiranje.

Neke ranjivosti koje ZAP može otkriti su pogreške u aplikaciji, nedostajanje anti-CSRF tokena i sigurnosnih zaglavlja, otkrivanje privatnih IP adresa, ID sesije u prepisivanju URL-a, SQL injection i XSS injection.

Prednosti koje pruža korištenje ovog alata su automatsko skeniranje, koje je vrlo jednostavno za početnike, lako korištenje i dobra dokumentacija alata na Internet stranicama, podržava puno platformi odnosno preglednika za, ima intuitivno korisničko sučelje, pruža podršku za autentifikaciju i prilikom traženja i pronalaska ranjivosti pruža njihove opise, mogućnosti rješenja te reference na kojima se može saznati više.

**Test**

Nakon preuzimanja alata sa službene stranice OWASP-a i njegove instalacije. Pokrećemo aplikaciju i vidimo korisničko sučelje koje nam odmah prikazuje karticu za Quick Start u kojoj možemo izabrati tri opcije: automatsko skeniranje, ručno istraživanje i učenje. Također na korisničkom sučelju s desne strane možemo vidjeti Tree Window koji nam prikazuje popis stranica koje su se pretraživale te informacijski prozor na dnu koji prikazuje detalje automatskog testiranja i sadrži više kartica iz kojih možemo iščitati informacije.

*Slika 39 Korisničko sučelje ZAP-a*

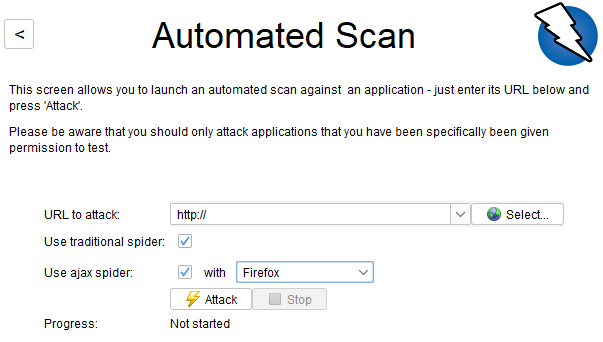
Slika na kojoj se prikazuje tekst

Opis je automatski generiran

*Izvor: izrada autora*

Prilikom pokretanja automatskog skeniranja, otvara se prozor u koji je potrebno unijeti URL adresu stranice na koju se pokreće napad, može se izabrati hoće li se koristiti tradicionalni pauk i AJAX pauk za napad te s kojom vrstom preglednika.

*Slika 40 Izgled prozora za automatsko skeniranje*



*Izvor: izrada autora*

Nakon pokretanja napada u informacijskom prozoru možemo pratiti testiranje gdje vidimo povijest testa, upozorenja, HTML zahtjeve i odgovore, a cijelo automatsko traje oko 15 minuta. Upozorenja su podijeljena u pet skupina: visoka, srednja, niska, informacijska i lažno pozitivna upozorenja,

Naš test prikazao je 7 upozorenja, od toga 2 srednja, 3 niska i 2 informacijska upozorenja, koje možemo i detaljnije vidjeti klikom na svako od njih.

*Slika 41 Upozorenja nakon završetka testiranja*

Slika na kojoj se prikazuje tekst

Opis je automatski generiran

*Izvor: izrada autora*

1. .htaccess curenje informacija

Ovaj dokument može se koristiti za izmjenu konfiguracije Apache Web Server softvera kako bi se omogućile ili onemogućile dodatne funkcionalnosti ili značajke koje on može ponuditi

1. X-Frame-Options Header nije postavljeno

Nije uključen X-Frame-Options zaglavlje nije uključeno u HTTP odgovoru kako bi se zaštitilo od „ClickJacking“ napada.

1. Nedostatak anti-CSRF tokena
2. Curenje informacija servera putem „X-Povered-By“ HTTP odgovora u polju zaglavlja

Pristup takvim informacijama može olakšati napadačima identificiranje drugih komponenti na web aplikaciji i ranjivosti kojima se takve komponente izlažu

1. X-Content-Type-Option nedostatak zaglavlja