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Školska godina *2024/2025*

PREDMET*:* **SE401-Timski razvoj softvera**

Projektni zadatak: **Privatna klinika**

Studenti: **Andrea Bušić 5133, Jovan Pavković 4442**

Datum izrade: **10.01.2025.**

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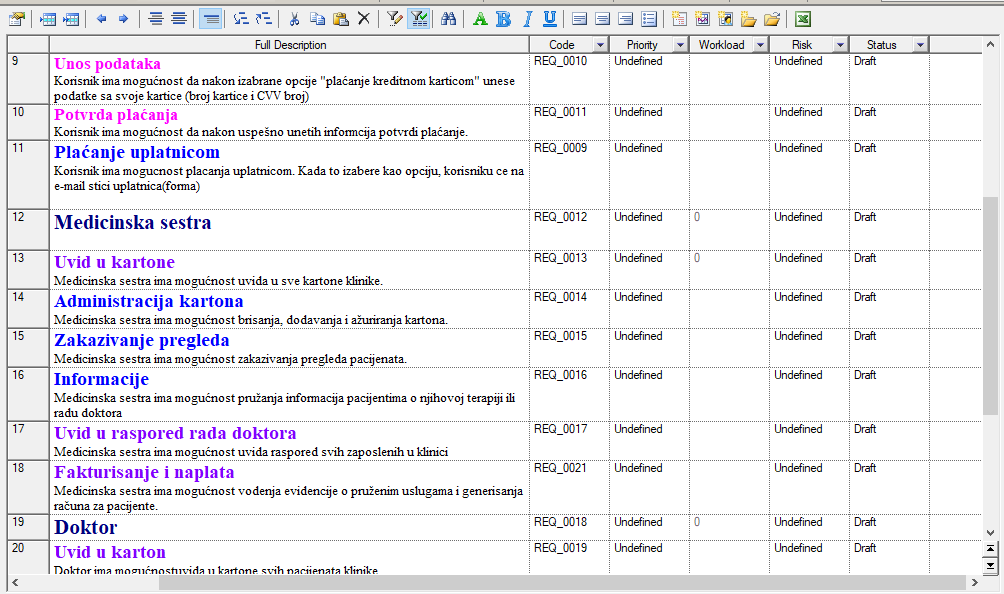
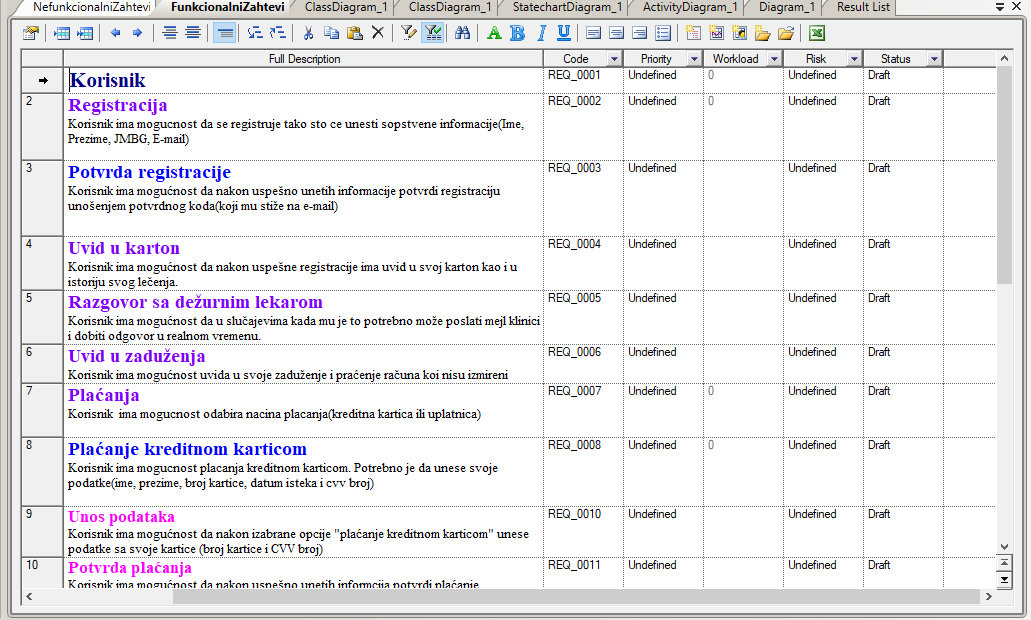
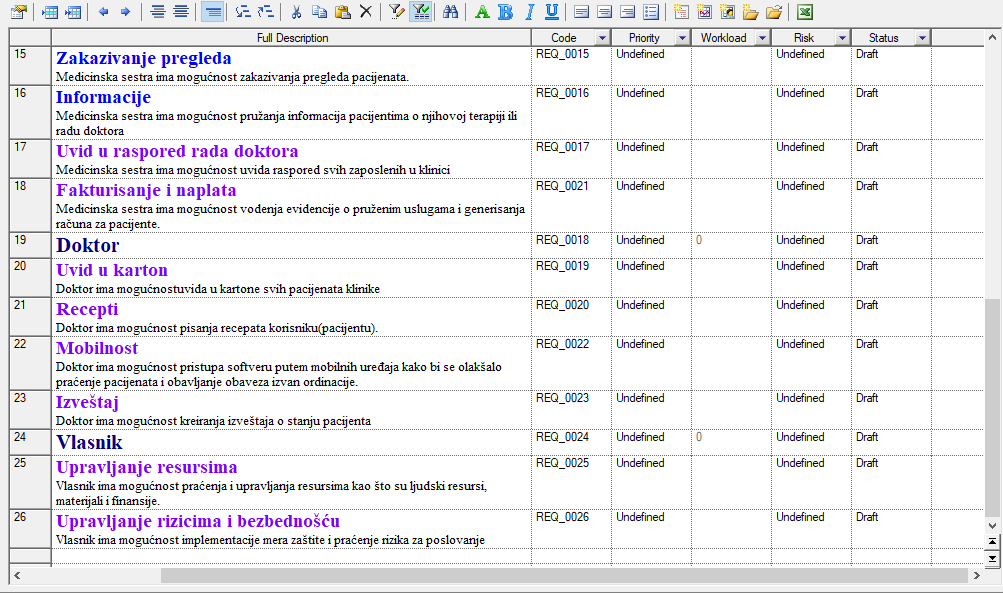
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**Tema projekta**

Kreirana je aplikacija za privatnu kliniku. Korisnici te aplikacije su Doktori, Vlasnik, Medicinska Sestra I sam Pacijent. Vlasnik upravlja resurima dok medicinska sestra ima ulogu azuriranja kartona, pregleda istih I dodavanja novog nacina lecenja. Doktor takodje ima uvid u karton kao I prepisivanje lekova pacijentu. Pacijent moze prek alikacije proveriti svoj karton I zakazati novi termin kod medicinske sestre .

### **Funcionalni zahtevi**



**Nefunkcionalni**

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# Use Case

**A computer screen shot of a diagram

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Detaljni opisi slučajeva korišćenja

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID i naziv:** | **UC-1 Registracija** | | | |
| **Kreator:** | Andrea Busic | | **Datum kreiranja:** | 20.01.2024. |
| **Primarni akter:** | Korisnik | | **Sekundarni akteri:** | / |
| **Pokretač:** | | Korisnik aplikacije treba da prisupi aplikaciji i odabere opciju za „Registraciju“ | | |
| **Opis:** | | Korisniku treba omogućiti da kreira nalog na sistemu kako bi mogao dalje da koristi aplikaciju | | |
| **Preduslovi:** | | PRE-1. Postoji konekcija na internet  PRE-2. Baza podataka je online  PRE-3. Korisnik je pritisnuo dugme „Registracija“  PRE-4. Korisnik nema kreiran nalog | | |
| **Postuslovi:** | | POST-1. Korisniku je uspešno kreiran nalog na sistemu  POST-2. Podaci su sačuvani u bazi | | |
| **Normalni tok:** | | 1. Kreiranje naloga  * Korisnik bira opciju za registraciju * Sistem prikazuje formu za registraciju * Korisnik popunjava formu (unosi ime, prezime, email, username I password) * Korisik potvrđujue unos pritiskom na dugme „Registracija“ (Ex1) * Sistem proverava tačnost popunjenosti forme (Ex2)(Ex3) * Sistem upisuje podatke u bazu * Sistem prikazuje poruku o uspešnosti kreiranja naloga I prikazuje deo za “Login” | | |
| **Alternativni tokovi:** | | / | | |
| **Izuzeci:** | | Ex1 – Sva polja moraju biti popunjena  Ex2 – Korisnik nije pravilno uneo neki od podataka (ime I prezime samo slova, email obavezno da sadrži “.” i “@”, password mora imati od 5 do 10 karaktera I bar jedno malo I veliko slovo I jedan broj)  Ex3 – Username je već iskorišćen | | |
| **Prioritet:** | | Visok | | |
| **Frekvencija upotrebe:** | | Minimum jednom dnevno, a maksimum nije definisan | | |
| **Poslovna pravila:** | | Novog zaposlenog bi mogao dodati samo administrator, dok korisnici sami kreiraju naloge | | |
| **Druge informacije:** | | / | | |
| **Pretpostavke:** | | Pretpostavlja se da su podaci koje korisnik unosi semantički ispravni I da je email važeći | | |

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| --- | --- | --- | --- |
| **ID i naziv:** | **UC-2 Login** | | |
| **Kreator:** | Andrea Busic | **Datum kreiranja:** | 20.01.2024. |
| **Primarni akter:** | Korisnik, Direktor Administrator, Zaposleni | **Sekundarni akteri:** | / |
| **Pokretač:** | Korisnik aplikacije treba da prisupi aplikaciji i odabere opciju za „Login“ | | |
| **Opis:** | Korisniku treba omogućiti da se uloguje na sistem kako bi mogao dalje da koristi aplikaciju | | |
| **Preduslovi:** | PRE-1. Postoji konekcija na internet  PRE-2. Baza podataka je online  PRE-3. Korisnik je pritisnuo dugme „Login“  PRE-4. Korisnik ime kreiran nalog | | |
| **Postuslovi:** | POST-1. Korisnik se uspešno ulogovao na sistem | | |
| **Normalni tok:** | 1. Login na sistem  * Korisnik bira opciju za login * Sistem prikazuje formu za login * Korisnik popunjava formu (unosi username I password) * Korisik potvrđujue unos pritiskom na dugme „Login“ (Ex1) * Sistem proverava tačnost popunjenosti forme (Ex2)(Ex3) * Sistem prikazuje korisniku meni sa opcijama (u zavisnosti od role) | | |
| **Alternativni tokovi:** | / | | |
| **Izuzeci:** | Ex1 – Sva polja moraju biti popunjena  Ex2 – Korisnik nije pravilno uneo password (password mora imati od 5 do 10 karaktera I bar jedno malo I veliko slovo I jedan broj)  Ex3 – Korisnik nije uneo važeći username | | |
| **Prioritet:** | Visok | | |
| **Frekvencija upotrebe:** | Minimum jednom dnevno, a maksimum nije definisan | | |
| **Poslovna pravila:** | / | | |
| **Druge informacije:** | / | | |
| **Pretpostavke:** | Pretpostavlja se da su podaci koje korisnik unosi semantički ispravni I da se poklapaju sa onima u bazi | | |

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| --- | --- | --- | --- |
| **ID i naziv:** | **UC-3Rad sa bazom svih podataka** | | |
| **Kreator:** | Andrea Busic | **Datum kreiranja:** | 20.01.2024. |
| **Primarni akter:** | Administrator | **Sekundarni akteri:** | / |
| **Pokretač:** | Administrator treba da pristupi aplikaciji I bazi podataka za unos, čitanje, ažuriranje, brisanje podataka | | |
| **Opis:** | Administratoru treba omogućiti sve funkcije vezane za podatke dostupne u kompaniji, odnosno unos, čitanje, ažuriranje ibrisanje podataka | | |
| **Preduslovi:** | PRE-1. Postoji konekcija na internet  PRE-2. Baza podataka je online  PRE-3. Administrator je uspešno autentifikovan pomoću svojih podataka za pristup sistemu | | |
| **Postuslovi:** | POST-1. Administrator uspešno izvršio potrebne manipulacije sa podacima u bazi | | |
| **Normalni tok:** | 1. Rad sa bazom podataka  * Administrator bira opciju za rad sa bazom * Sistem prikazuje bazu * Administrator bira tabelu kojoj hoće da pristupi (zaposleni, korisnici, ponude, rezervacije, pregled izveštaja) * Sistem prikazuje traženu tabelu * Administrator bira opciju koju želi: unos, čitanje, ažuriranje, brisanje podataka * Sistem proverava podatke(Ex1) * Administrator dobija obaveštenje da je sve uspešno izvršeno | | |
| **Alternativni tokovi:** | / | | |
| **Izuzeci:** | Ex1 – Sva polja moraju biti popunjena | | |
| **Prioritet:** | Visok | | |
| **Frekvencija upotrebe:** | Minimum jednom dnevno ako je potrebno neko ažuriranje | | |
| **Poslovna pravila:** | Administrator može pristupitisvim podacima u bazi | | |
| **Druge informacije:** | / | | |
| **Pretpostavke:** | Pretpostavlja se da su podaci koje administrator unosi semantički ispravni i da se sve proverava od strane direktora | | |

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| **ID i naziv:** | **UC-4 Komunikacija** | | |
| **Kreator:** | Andrea Busic | **Datum kreiranja:** | 20.01.2024. |
| **Primarni akter:** | Korisnik, Zaposleni | **Sekundarni akteri:** | / |
| **Pokretač:** | Korisnik ili zaposleni treba da pristupi aplikaciji odabere opciju za komunikaciju (chat) | | |
| **Opis:** | Korisniku I zaposlenom treba omogućiti primanje I slanje poruka kako bi komunikacija sa drugom stranom bila uspešna | | |
| **Preduslovi:** | PRE-1. Postoji konekcija na internet  PRE-2. Baza podataka je online  PRE-3. Korisnik/zaposleni je uspešno autentifikovan pomoću svojih podataka za pristup sistemu | | |
| **Postuslovi:** | POST-1. Komunikacija je uspešno izvršena | | |
| **Normalni tok:** | 1. Komunikacija između korisnika I zaposlenog  * Korisnik/zaposleni bira opciju za komunikaciju * Sistem prikazuje formu za unos * Korisnik/zaposleni unosi kome je namenjena poruka I tekst poruke I potvrđuje unos klikom na “Pošalji” (Ex1) * Sistem proverava unos I šalje poruku * Korisnik/zaposleni dobija obaveštenje da je poruka poslata I čeka odgovor | | |
| **Alternativni tokovi:** | / | | |
| **Izuzeci:** | Ex1 – Sva polja moraju biti popunjena | | |
| **Prioritet:** | Nizak | | |
| **Frekvencija upotrebe:** | Nije definisano | | |
| **Poslovna pravila:** | / | | |
| **Druge informacije:** | / | | |
| **Pretpostavke:** | Pretpostavlja se da su podaci koji se unose prilikom komunikacije između korisnika I zaposlenog semantički ispravni | | |

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| --- | --- | --- | --- |
| **ID i naziv:** | **UC-5 Kontrola rada kompanije I unos izveštaja** | | |
| **Kreator:** | Andrea Busic | **Datum kreiranja:** | 20.01.2024. |
| **Primarni akter:** | Direktor | **Sekundarni akteri:** | / |
| **Pokretač:** | Direktor treba da pristupi aplikaciji i odabere opciju za pregled podataka o radu I finansijama kako bi kasnije kreirao I izveštaj | | |
| **Opis:** | Direktoru treba omogućiti uvid u sve podatke vezane za rad kompanije I njene finansije kako bi mogao da izvrši kontrolu I kreira izveštaj | | |
| **Preduslovi:** | PRE-1. Postoji konekcija na internet  PRE-2. Baza podataka je online  PRE-3. Direktor je uspešno autentifikovan pomoću svojih podataka za pristup sistemu | | |
| **Postuslovi:** | POST-1. Direktor je uspešno izvršio kontrolu rada kompanije  POST-2. Izveštaj o radu I finansijama za određeni mesec je kreiran | | |
| **Normalni tok:** | 1. Kontrola rada I kreiranje izveštaja  * Direktor bira opciju za kontrolu rada komapnije * Sistem prikazuje sve podatke iz baze o dostupnim događajima, izvršenim rezervacijama, novim korisnicima, radu zaposlenih, izvršenim uplatama * Direktor bira opciju za kreiranje izveštaja * Sistem prikazuje formu za popunjavanje podataka * Direktor unosi potrebne podatke (datum I vreme kreiranja izveštaja, mesec za koji se kreira, podatke o rezervacijama, podatke o finansijama) * Sistem proverava podatke(Ex1) * Direktor dobija obaveštenje da je sve uspešno izvršeno I da je izveštaj kreiran I unet u bazu | | |
| **Alternativni tokovi:** | / | | |
| **Izuzeci:** | Ex1 – Sva polja moraju biti popunjena | | |
| **Prioritet:** | Visok | | |
| **Frekvencija upotrebe:** | Minimum jednom mesečno se mora proveriti rad kako bi se kreirao izveštaj za taj mesec | | |
| **Poslovna pravila:** | Direktor može pristupiti pregledu svih podataka u bazi | | |
| **Druge informacije:** | / | | |
| **Pretpostavke:** | Pretpostavlja se da su podaci koje direktor unosi semantički ispravni | | |

**Prikaz dijagrama stanja**

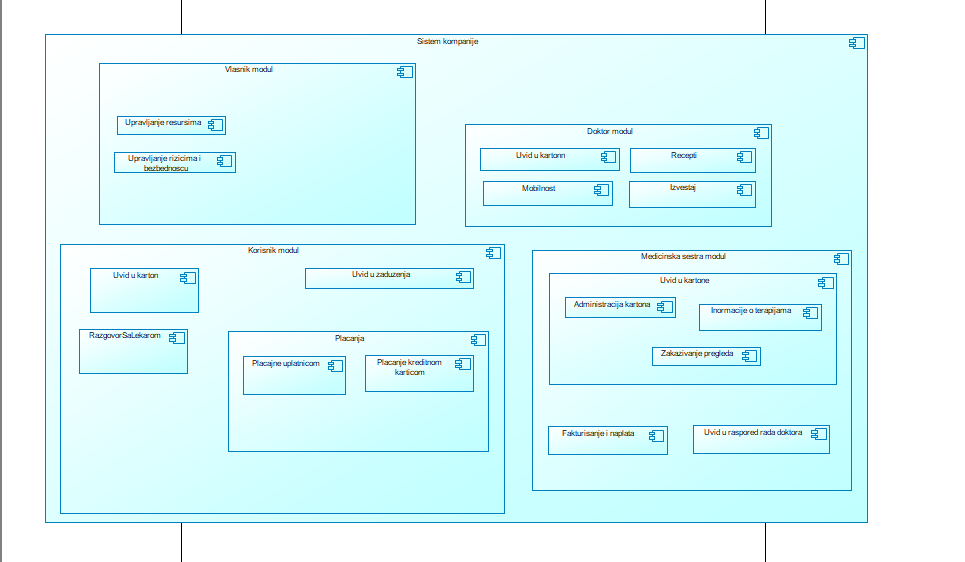
A screenshot of a computer

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# Arhitektura sistema

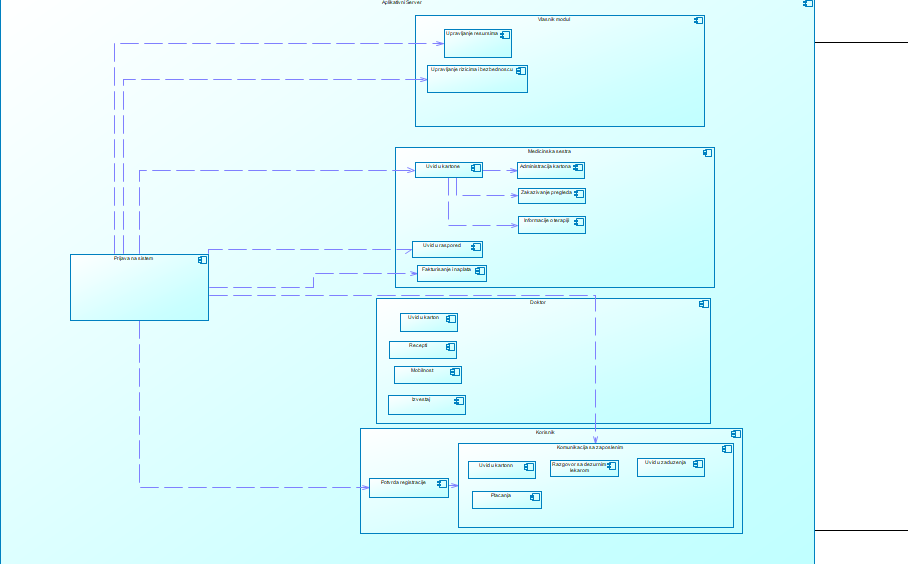
## **Stil razlaganja**



Uzimanjem elemenata i svojstava kroz pogled modula uz fokus na relaciju "je deo od" dobijamo stil razlaganja (dekompoziciju). Stil razlaganja opisuje strukturu programskog koda u vidu modula i podmodula i podelu sistemskih odgovornosti na njih.

Moduli na koje je podeljen sistem prilikom stila razlaganja jesu nezavisni, ali komuniciraju jedni sa drugima kako bi ispunili funkcionalne zahteve celog sistema. Ovaj sistem je podeljen u 4 modula: vlasik modul, pacijent modul, ms modul i doktor modul.

## **Stil podele**



## **Servisno-orijentisani stil**

A screenshot of a computer

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## **Stil raspoređivanja**

A diagram of a computer network

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Ovim stilom je predstavljena povezanost elemenata softverskog okruženja i elemenata softverske arhitekture. Sistem će biti postavljen na web serveru. Komunicira sa serverom baze podataka. Pristup sistemu imaju mobilni telefoni I računari.

**Radni zadaci**

A screenshot of a computer program

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## **Arhitektura distribuiranih komponenti**

A computer screen shot of a computer network

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Arhitektura distribuiranih komponenti, se koristi kada se resursi različitih sistema i baza podataka moraju kombinovati, ili se koristi kao model implementacije višeslojne klijent-server arhitekture.

**Servisno-orjentisani razrada**

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**Sekvencijalni dijagrami**

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A diagram of a computer program

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![A diagram of a program

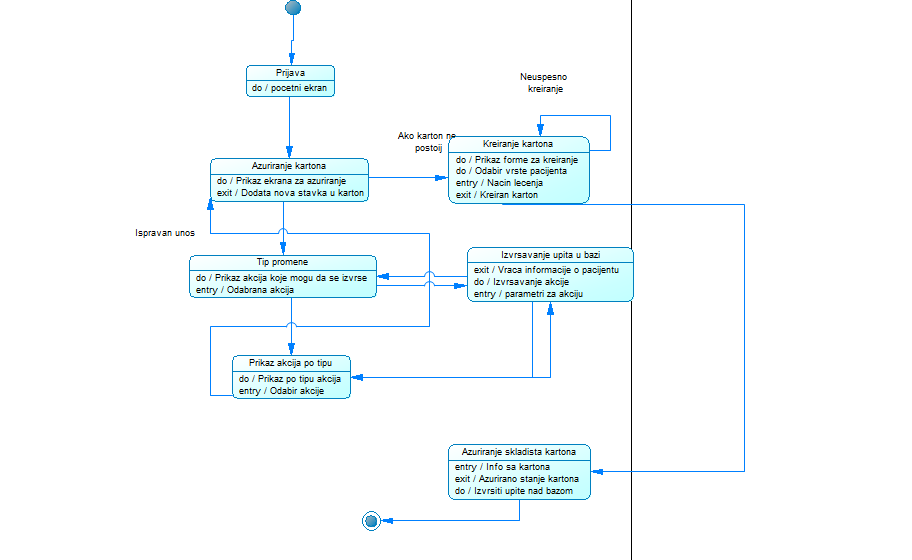
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**Dijagram stanja**

softverskog sistema uz tekstualni opis primarnih i sekundarnih scenarija (izuzetaka) za svaki slučaj korišćenja.

A diagram of a diagram

Description automatically generated



**Modelovani dijagram servisa**

projektovanog rešenja na kome se nalaze razvijeni servisi za potrebe softverskog sistema a i gotovi servisi koji su pronađeni i koji su u skladu sa definisanim zahtevima.

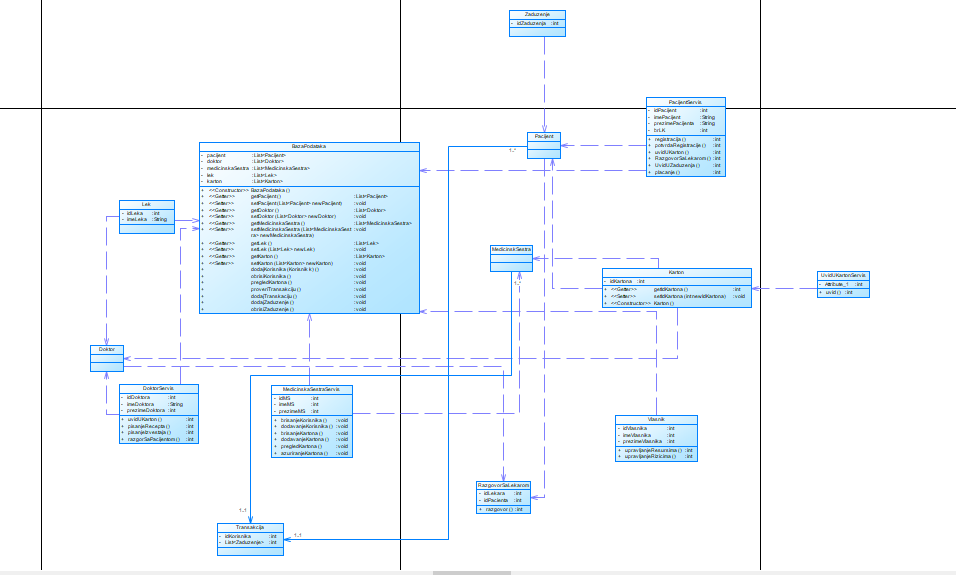
Modelovati dijagram projektnog rešenja primenom razvijenih servisa i gotovih servisa (koje možete pronaći) a koje su u skladu sa definisanim funkcionalnim i nefunkcionalnim zahtevima definisanim u prvoj nedelji.

A screenshot of a computer

Description automatically generated

Stil slojeva sa servisno orijentisanom arhitekturom sloj aplikacije sloj logie backend i bazepodataka kao i eksterni servis za placanje.

**Klasni dijagram**



Izvršiti specifikaciju jednog ili više interfejsa koji se koriste u projektnom rešenju uz opis veza sa klasama koje realizuju njihove servise.

A computer screen shot of a computer

Description automatically generated

**Generisanje svih Power Designer modela u cilju dobijanja inicijalnog programskog koda**. Preuzeti detaljan listing programskog koda i izvršiti opis razvijenih metoda u Javi.A screenshot of a computer

Description automatically generated

Zaključak

U okviru projekta "Privatna klinika," razvijena je aplikacija koja omogućava efikasno upravljanje procesima unutar privatne klinike. Kroz analizu funkcionalnih i nefunkcionalnih zahteva, implementirani su ključni moduli koji obuhvataju:

* Upravljanje pacijentima, medicinskim sestrama, doktorima i vlasnicima.
* Omogućavanje komunikacije između korisnika i zaposlenih.
* Upravljanje podacima kroz CRUD operacije za različite tabele u bazi.
* Generisanje izveštaja o poslovanju za vlasnika i direktora.
* Tehnologije korišćene u projektu, kao i servisno-orijentisana arhitektura, omogućavaju skalabilnost i modularnost sistema, što doprinosi lakšoj održivosti i potencijalnoj nadogradnji u budućnosti.

Postignuti ciljevi:

* Ostvareni su svi funkcionalni zahtevi definisani na početku projekta.
* Sistem je testiran i potvrđena je njegova pouzdanost u simuliranim uslovima rada.
* Dokumentacija pruža sveobuhvatan pregled projektovanog i realizovanog rešenja.
* Projekat predstavlja važan korak ka digitalizaciji procesa u zdravstvenim ustanovama, a njegova implementacija može značajno unaprediti efikasnost rada i korisničko iskustvo.