SVEUČILIŠTE U ZAGREBU

FAKULTET ORGANIZACIJE I INFORMATIKE

V A R A Ž D I N

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FitApp

Projektni zadatak

https://github.com/AIR-FOI-HR/AIR1911

https://app.zenhub.com/workspaces/air1911-5da934a839b1e30001be759f

Varaždin, 2019.

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FitApp

Projektni zadatak

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1. Uvod

Cilj ovog projekta je izraditi aplikaciju koja će služiti za daljnju nadogradnju u ostalim projektima sa poduzećem Studio Svemir.

* 1. Svrha aplikacije

Aplikacija je usmjerena na zdravlje i fitness, te svim potencijalno povezanim uslugama koje bi korisnik mogao tražiti u tom sektoru.

* 1. Korisnici aplikacije

Korisnici naše aplikacije su primarno ljudi zainteresirani za poboljšanje standarda svojeg zdravlja, u smisli bolje prehrane i aktivnijeg života.

* 1. Korist od aplikacije

Aplikacija FitApp omogućava korisnicima da planiraju svoju prehranu i aktivnosti, te iste mjere i izvode iznimno lagano. Aplikacije koje su trenutno dostupne na tržištu su vrlo dobre, ali u kritičnim koracima otežavaju korisničko iskustvo, što dovodi do vrlo visoke stope odustajanja.

Na primjer, aplikacija Samsung Health, glavna inspiracija za ovaj projekt, adekvatno izvodi kardiovaskularne vježbe (trčanje, hodanje) te daje odlične informacije o konzumiranoj hrani te stanju tijela, ali je vrlo loša u području vježbi snage (poput čučnjeva, mrtvog dizanja) i dodavanju konzumirane hrane (vrlo ograničena baza te teška pretraga).

S druge strane, aplikacija MyFitnessPal odlično obavlja praćenje konzumirane hrane te njezinu pretragu i odabir, ali u gotovo svim drugim područjima je vrlo površna.

1. Zahtjevi

U ovom poglavlju razmotriti ćemo korisničke, funkcijske, sistemske i sigurnosne zahtjeve aplikacije.

* 1. Korisnički zahtjevi

Postoji samo jedan tip korisnika, koji je ujedno i krajnji korisnik, te se modifikacija sadržaja aplikacije radi sa promjenama na bazi podataka od strane razvojnog tima.

1. Vrlo lagana registracija i prijava (gotovo nevidljiva) pomoću Google Sign-In integracije.
2. Aplikacija mora prilagoditi kalorijski budžet ovisno o masi, visini i cilju korisnika.
3. Omogućeno praćenje konzumirane hrane (kalorija) po obroku, te po određenom danu.
4. Iznimno lako dodavanje hrane pomoću skeniranja barkoda ili pretragom baze.
5. Omogućeno praćenje vježbi, te izračun potrošenih kalorija pri izvođenju iste.
6. Modificiranje setova, serija, mase te trajanje pauze pri vježbi.
7. Davanje uputa tijekom vježbe.
8. Praćenje pozicije tijekom kardiovaskularne vježbe (trčanja).
9. Izračun kalorija pri izvođenju iste.
10. Planiranje vježbi.
11. Planiranje hrane (jelovnik).

* 1. Funkcijski zahtjevi

Slijede funkcionalnosti aplikacije:

1. **Login i registracija**
   * Uz Google Sign-In integraciju.
   * Unos mase, visine, cilja (mase, stopa mršavljenja/debljanja, broja koraka).
   * Izračun kalorijskog budžeta ovisno o cilju.
2. **Dodavanje hrane i brojanje kalorija**
   * CRUD hrane
   * CRUD hrane određenom obroku na određeni dan.
   * Sken barkoda proizvoda za lakši unos hrane uz Google Barcode API.
   * Dodana hrana se pridodaje brojaču kalorija.
3. **Vježbe**
   * Korisnik odabire vježbu i unosi broj setova, serija, masu te trajanje pauze.
   * Google Cloud Text-to-Speech API daje korisniku kratke upute te ga obavještava kada počinje i završava pauza te kada je završio vježbu.
   * Ovisno o njegovoj visini, težini te težini samih utega, računaju mu se kalorije koje je potrošio te se oduzimaju od brojača kalorija.
4. **Trčanje**
   * Praćenje promjene pozicije senzorima ili GPS.
   * Google Maps API.
   * Naposljetku ovisno o njegovoj visini, masi te brzini, računaju mu se kalorije koje je potrošio te se oduzimaju od brojača kalorija.
5. **Režim i jelovnik**
   * Korisnik radi CRUD vježbe na režim, s brojem setova, serija, masom te trajanje pauze.
   * Korisnik radi CRUD nad hranom koju planira konzumirati u obroku određenog dana.
   * Pri pregledu režima može pokrenuti vježbu s planiranim postavkama, pri pregledu jelovnika može označiti hranu kao konzumiranu.
   * Pri stvaranju ili ažuriranju režima i jelovnika stvaraju se korespondirajući događaji preko Google Calendar API.

A picture containing text, map

Description automatically generated

Slika 1 Dijagram slučajeva korištenja

Dijagram slučajeva korištenja prikazuje ponašanje aplikacije, tj. sve slučajeve korištenja koje korisnik aplikacije ima mogućnost napraviti.

* 1. Sistemski, hardverski i mrežni zahtjevi

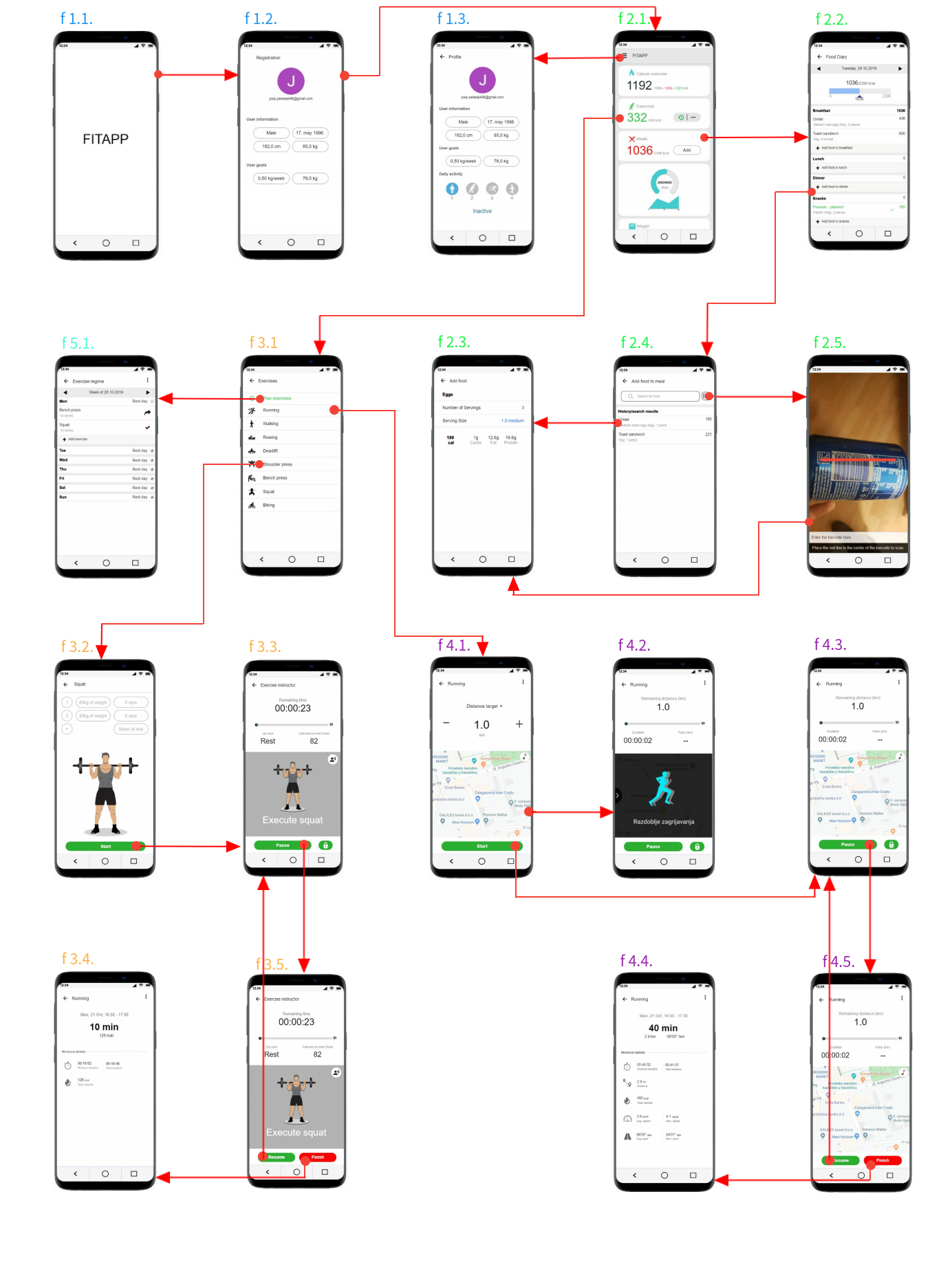
Aplikacija može raditi na API 21: Android 5.0 (Lollipop) te na svim višim verzijama, to povlači da će raditi samo na Android operacijskim sustavima, točnije na pametnim mobitelima s tim operacijskim sustavima.

Mrežno, aplikacija će u svrhu jednostavnosti izvedbe, raditi samo ako je povezana na Internet, jer ovisi o raznim „cloud“ servisima te bazama podataka.

* 1. Sigurnost

Korisnička sigurnost je zajamčena pri registraciji i prijavi preko integracije Google Sign-In. Sigurnost korisničkih podataka osigurana je preko web servisa za povezivanje na bazu podataka.

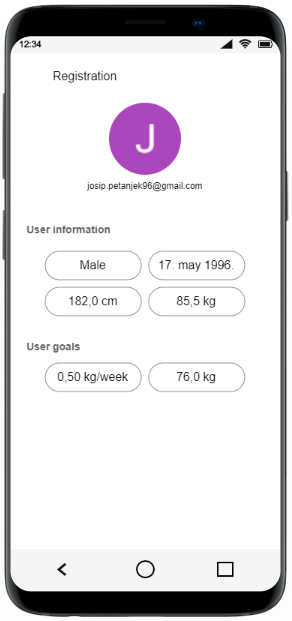
1. Wireframe aplikacije

Wireframe aplikacije je pojednostavljeni prikaz budućeg dizajna koji pokazuje osnovne elemente pojedinih ekrana, odnosno ne mora nužno definirati finalni izgled aplikacije već pokazati kako će pojedini ekran funkcionirati. Grupiran je u pet osnovnih dijelova koji predstavljaju funkcionalnosti.

Slika 2. Wireframe aplikacije

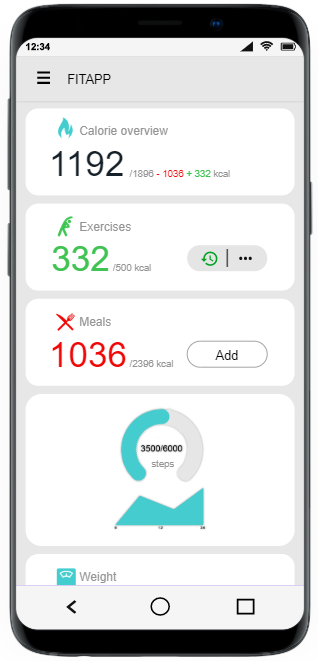
1. Funkcionalnosti
   1. Prijava i registracija

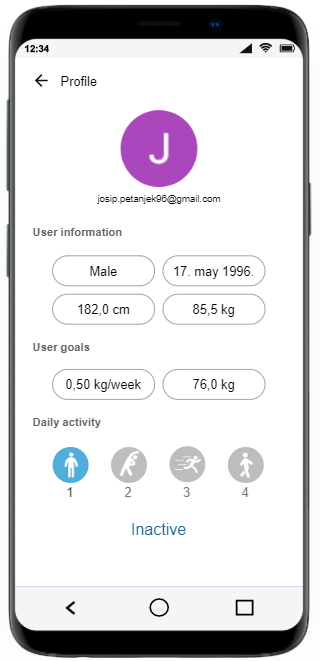
Uključivanjem aplikacije pojavljuje se ekran f 1.1 koji prikazuje logo aplikacije, nakon kojeg se otvara ekran f 1.2 za prijavu pomoću Google računa. Ukoliko korisnik još nije registriran, najprije unosi osnovne informacije o sebi (spol, datum i godinu rođenja, visinu, masu) te cilj koji želi postići korištenjem ove aplikacije (ciljna masa, koliko kilograma želi smanjiti/dobiti po tjednu).



Ekran f 1.1 Splash screen

Ekran f 1.2 Registration

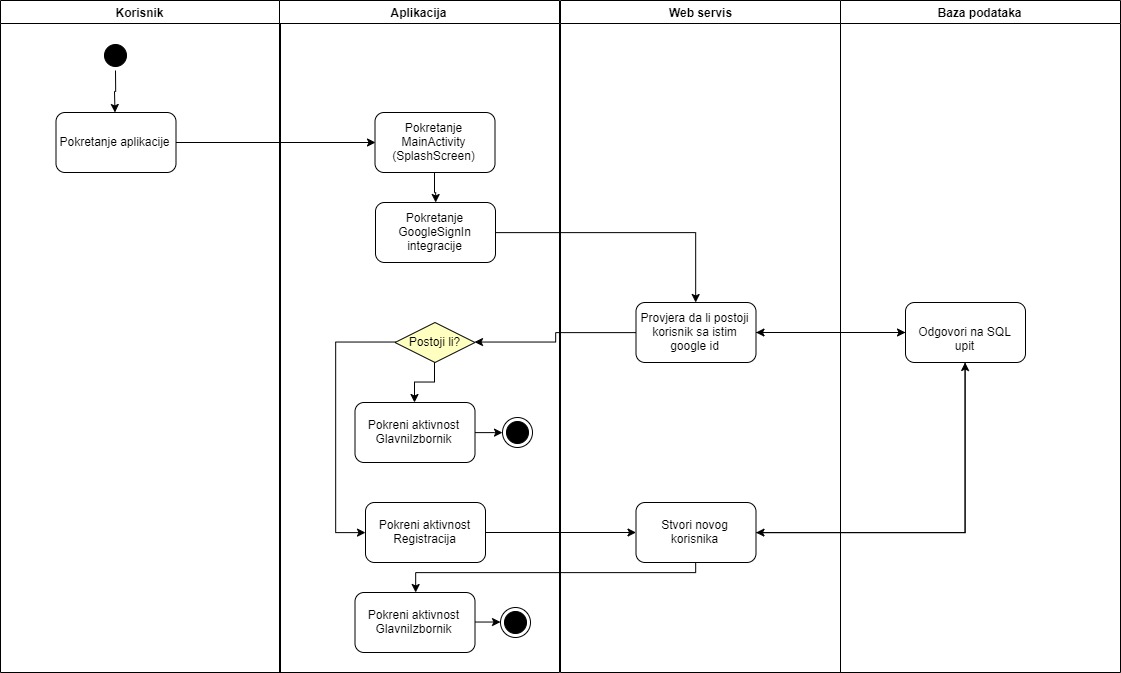
Nakon uspješne registracije, otvara se ekran f 2.1, odnosno „Main menu“ na kojem korisnik vidi table koje pružaju osnovne informacije o stanju kalorija korisnika u tekućem danu. Na tabli za pregled kalorijskog stanja (Calorie overview) vidi preostalu preporučenu količinu kalorija koju taj dan treba unijeti na temelju informacija koje je unio prilikom registracije, a u ovisnosti o tome koliko je kalorija unio hranom ili potrošio vježbanjem. Na tabli za vježbe (Exercises) dostupan mu je pregled potrošenih kalorija s obzirom na planirano trošenje, te poveznica na pokretanje režima vježbi ili odabir vježbi. Na tabli za hranu (Meals) dostupan je pregled konzumiranih kalorija s obzirom na planirane, te poveznica na jelovnik. Naposljetku, dostupne su mu table za praćenje broja koraka te težinu.



Ekran f 2.1 Main menu

Pritiskom na gumb u gornjem lijevom kutu ekrana f 2.1 „Main menu“, korisnik može pogledati svoj profil (ekran f 1.3) te ukoliko je potrebno izmijeniti pojedine informacije.

Ekran f 1.3 Profile



Na ovom dijagramu aktivnosti dostupan je pregled akcija aplikacije tijekom registracije i prijave pomoću Google „Sign In“ integracije.

U nastavku je prikazana klasa Korisnik koja je korištena za prijavu i registraciju.

A screenshot of a cell phone screen with text

Description automatically generated

Slijedi prikaz operacija za upravljanje korisnikom na web servisu.

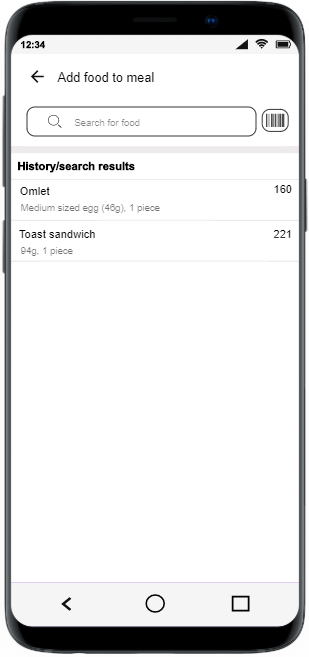


* 1. Dodavanje hrane i brojanje kalorija

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDgRXhpZgAATU0AKgAAAAgABAE7AAIAAAAHAAAISodpAAQAAAABAAAIUpydAAEAAAAOAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFNhYmluYQAAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzEzAACSkgACAAAAAzEzAADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Pritiskom na sekciju „Meals“ na ekranu „f 2.1 Main menu“, otvara se ekran „f 2.2 Food diary“ na kojem je prikazan popis unesene hrane s pripadnim kalorijama te ukupna suma kalorija za svaki pojedini obrok. Također, na vrhu ekrana nalazi se skala koja prikazuje ukupan broj unesenih kalorija za taj dan. Ukoliko korisnik želi dodati hranu za pojedini obrok, to može učiniti pritiskom na gumb „+ Add food to breakfast/lunch/dinner/snacks“. Time se otvara novi ekran kao što je prikazano na „f 2.4 Add food to meal“.



Ekran f 2.2 Food diary

Na ekranu „f 2.4 Add food to meal“ može se odabrati neka od ponuđenih vrsta hrane s popisa pretraživanih (History/search results). Ukoliko korisnik želi dodati neku novu vrstu hrane, odnosno onu koju još nije unosio, ima mogućnost pretraživanja vrsta hrana iz baze upisivanjem željene hrane u okvir „Search for food“ ili upotrebom skeniranja barkoda pritiskom na gumb u gornjem desnom kutu. Nakon odabira, otvara se ekran „f 2.3 Add food“.

Ekran f 2.4 Add food to meal

Ukoliko je korisnik pritisnuo na gumb za skeniranje barkoda na ekranu „f 2.4 Add food to meal“ otvara se ekran „f 2.5 Barcode scan“ na kojem je potrebno kameru usmjeriti na željeni kod. Na taj način će aplikacija prepoznati o kojem se proizvodu radi te će se otvoriti ekran „2.3 Add food“.

**![A screenshot of a cell phone

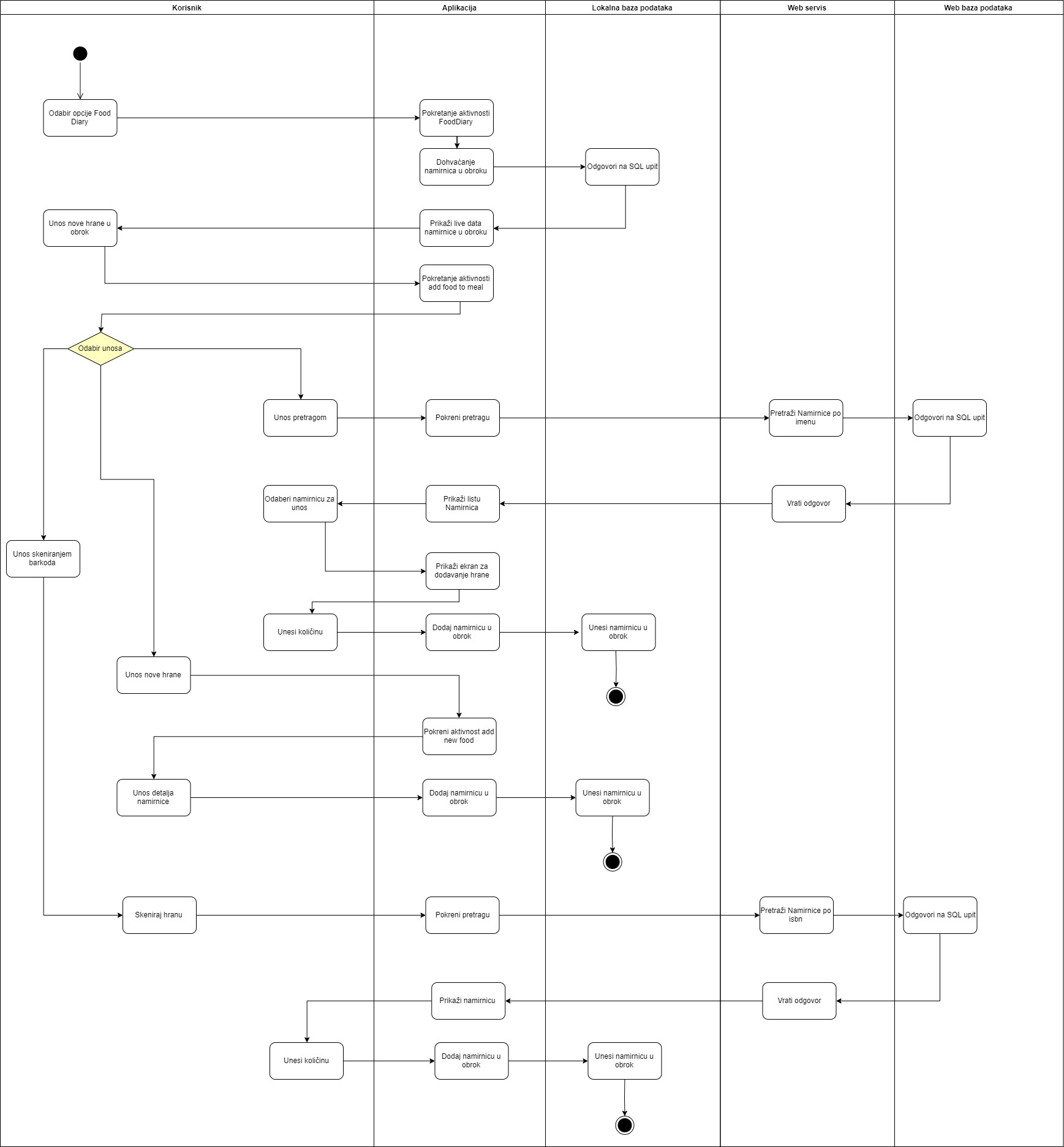
Description automatically 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r8m1ZR6n/61SR+GLxnAdkAPp1/I4oAxqvabYSXVwPlO0c12mhfCfXtYkH2DSry6RvuyGLy0z7lsD8mr2Xwh+zwYzHN4qukSNTn7HaH73+85/kAT6GmI4L4eeCdQ8UagtvpqlIVx9ovSvyRL7ep9P8AJH1Noei2fh7RrfTNNj8u3t12r6se5PuTzUul6TY6Lp8dlpdrHbW8Y+WONcD6+596uUhhRS0UAFFFFACUUUUANeNJBh0Vh7jNY9z4N8NXk/n3Og6fJL/z0Nsu788ZoooAzbz4YeEL5WWbR0UN18qV4/8A0FhWU/wS8GMfktryP/dvHP8AMmiigCE/AzwkTw+pD2F1/wDWqSH4IeD4mzJHfzj0ku2H/oOKKKALLfBrwSy4GmTL7i9mz/6FVJ/gZ4RZ8o2pRj+6t1kD8waKKAE/4UZ4T/566n/4Ej/4mg/Azwmf+Wup/wDgSP8A4miigBP+FFeE/wDntqn/AIFD/wCJo/4UV4T/AOe2qf8AgUP/AImiigA/4UX4T/57an/4Ej/4mnD4GeEweZNSP1uR/wDE0UUASD4I+ER/DfH/ALej/hS/8KS8I/3L7/wKP+FFFACf8KS8I/3L7/wKP+FL/wAKS8I/3L7/AMCj/hRRQA1vgj4RI4F+vuLo/wCFM/4UZ4T/AOeupf8AgSP/AImiigBP+FGeFP8AnrqX/gSP/iaP+FGeFP8Anrqf/gSP/iaKKAD/AIUZ4T/566l/4Ej/AOJpf+FG+E/+eupf+BI/+JoooAB8DfCY/j1L/wACR/8AE0v/AAo3wn/f1L/wJ/8AsaKKAE/4Ub4T/wCempf+BP8A9jR/wozwl/f1L/wK/wDrUUUAOHwP8Id11A/W7NTRfBTwVGwLWV1IR/fvZP6EUUUAa1t8NvCNqu1NEgkH/TYtJ/6ETWtp/hrRNJydM0ixtCepht1Un8hRRQBpAADAGB7UtFFABiloooAKKKKAP//Z)**

Ekran f 2.5 Barcode scan

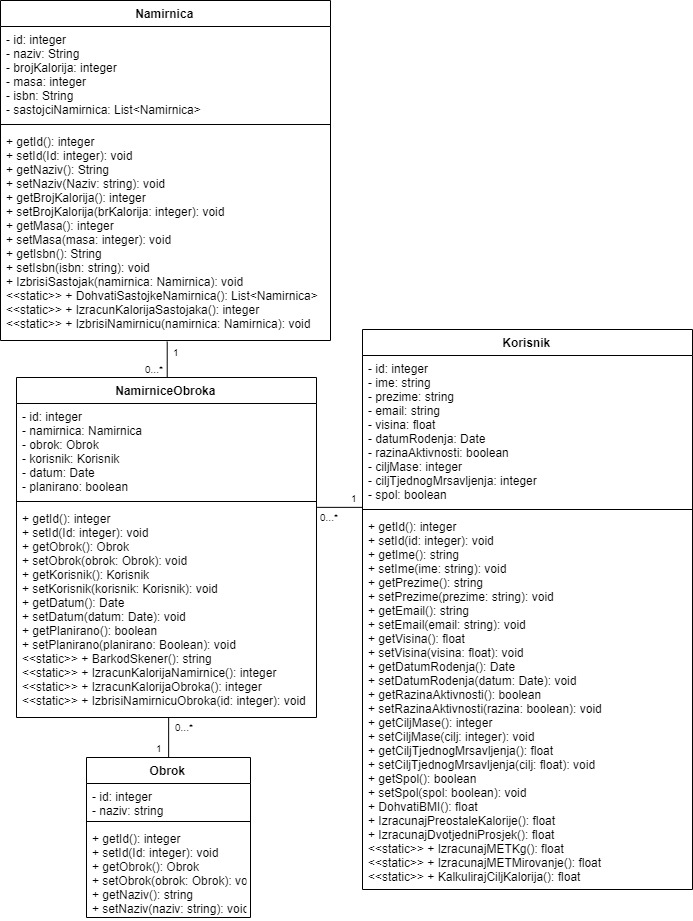
Na ekranu „f 2.3 Add food“ korisnik odabire broj komada hrane koju želi unijeti te veličinu porcije. Prema tome, aplikacija izračunava broj unesenih kalorija te koliko je od toga ugljikohidrata, masti i proteina.

Ekran f 2.3 Add food

Na ovom dijagramu aktivnosti dostupan je pregled akcija aplikacije tijekom dodavanja hrane i brojanja kalorija.



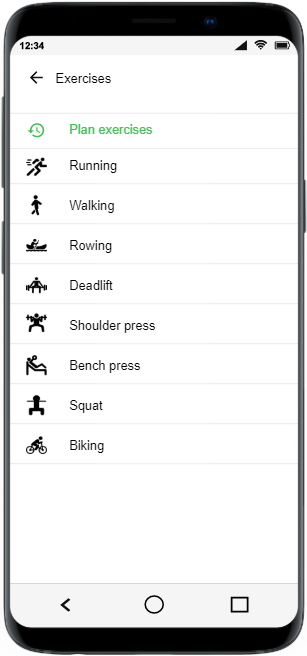
U nastavku je prikazana klasa Namirnica, NamirniceObroka te Obrok uz Korisnika koje su korištene za osposobljavanje dodavanje hrane i brojanje kalorija.

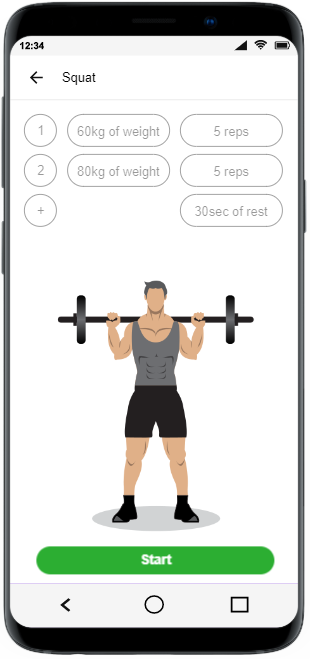


Slijedi prikaz operacija za upravljanje namirnicama na web servisu.



* 1. Vježbe

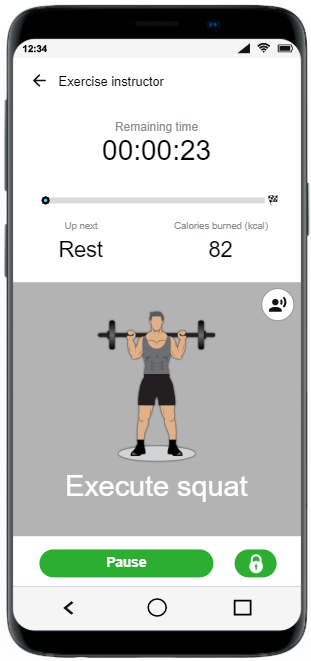
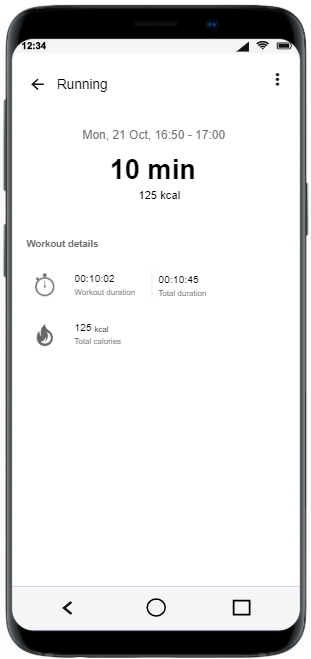
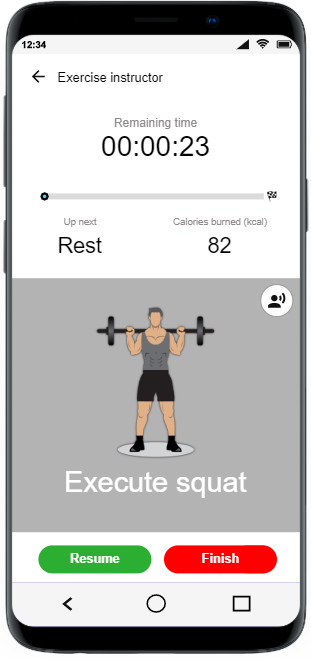
Ako na glavnom izborniku kliknemo na tablu za vježbanje (Exercises), točnije na tri točke, pojavljuje nam se izbornik za odabir vježbe prikazan na „*f 3.1 Exercise selection*“, odabirom vježbe otvara se konfigurator iste, na vrhu je izravna poveznica na režim vježbi (Plan exercises).



Ekran f 3.1 Exercise selection

Ekran za konfiguraciju vježbe „*Ekran f 3.2 Exercise configuration“* , ako je odabrana vježba snage (poput čučnja), prikazuje setove, serije, te masu koju korisnik želi dizati, s unosom pauze na dnu. Na slici, korisnik želi 2 seta, 1. sa 60 kilograma i to sa 5 ponavljanja, 2. sa 80 kilograma i to sa 5 ponavljanja, uz 30 sekundi odmora između.

Ekran f 3.2 Exercise configuration



Ekran f 3.3 Exercise instructor

Ekran f 3.4 Resume/Finish exercise

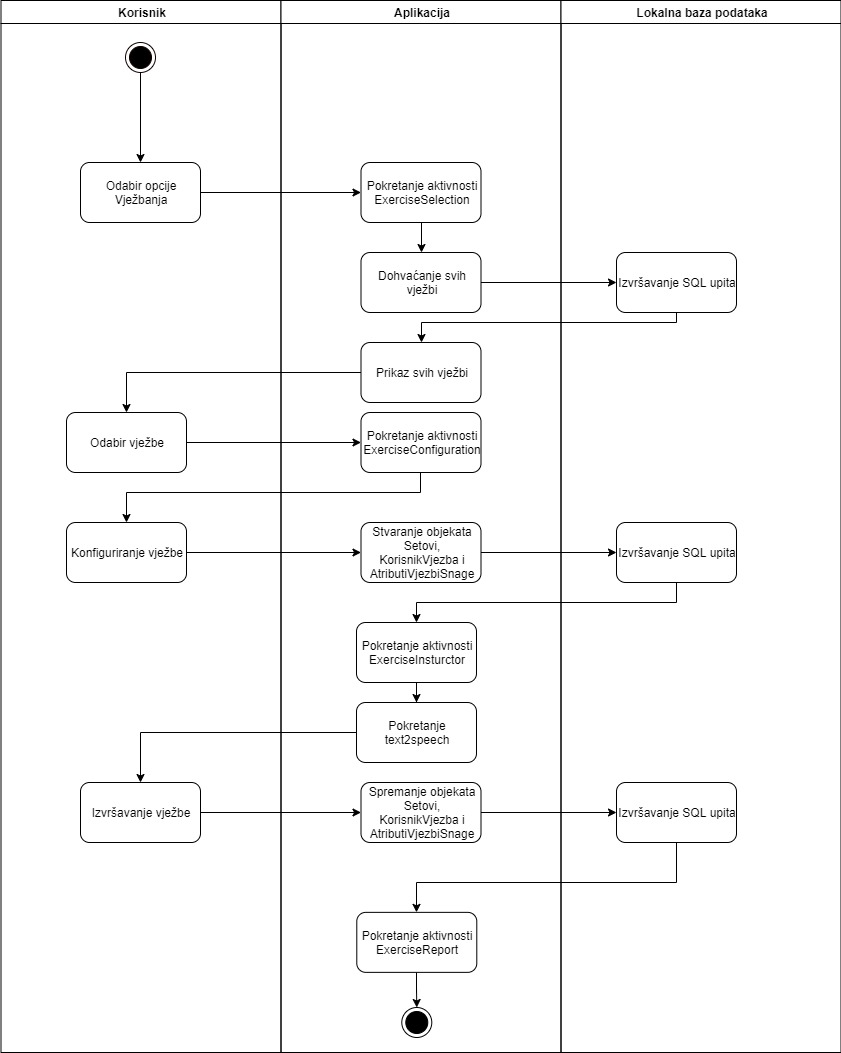
Ekran f 3.5 Workout details Exercise

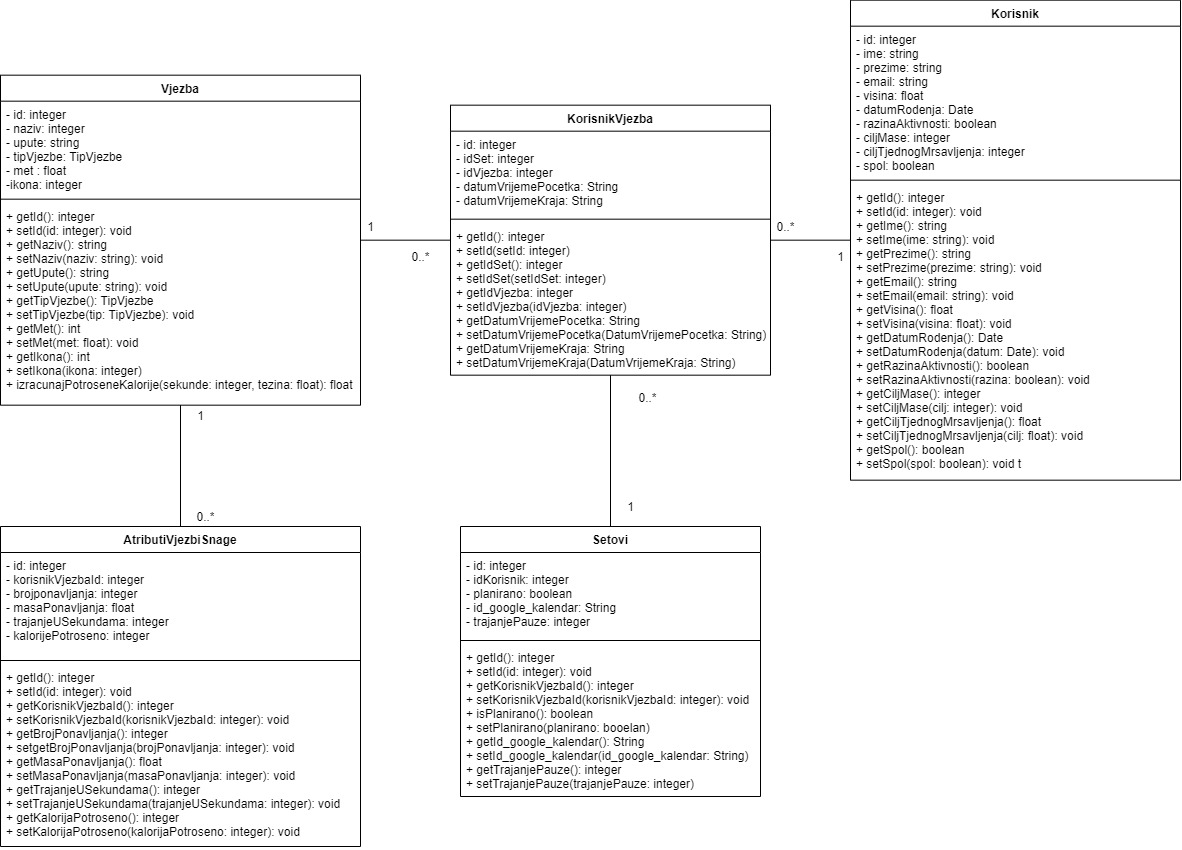
Pritiskom tipke „*Start*“ na ekranu „*f 3.2 Exercise configuration*“, prikazuje se ekran „*3.3 Exercise instructor*“ gdje je vidljivo ukupno preostalo vrijeme vježbe „*Remaining time*“, sa trakom napretka, prikazuje se i sljedeća uputa „*Up next*“ te potrošene kalorije „*Calories burned (kcal)*“. Na dnu ekrana prikazuju se trenutne upute, u gornjem desnom kutu nalazi se gumb za aktiviranje „Text 2 Speech“ uputa. Naposljetku, na dnu ekrana nalaze se kontrole za vježbu.

Pritiskom na „*Pause*“ aktivira se ekran „*f 3.4 Resume/Finish exercise*“, gdje se brojač vremena zaustavlja, te je moguće ponovo pokrenuti vježbu ili je završiti.

Pritiskom na „*Finish*“ aktivira se ekran „*f 3.5 Workout details Exercise*“, gdje su vidljivi detalji izvedene vježbe.

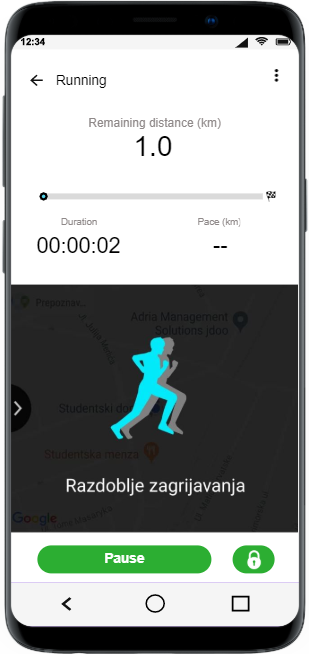
Na ovom dijagramu aktivnosti dostupan je pregled akcija aplikacije tijekom izvođenja vježbi snage.





* 1. Trčanje

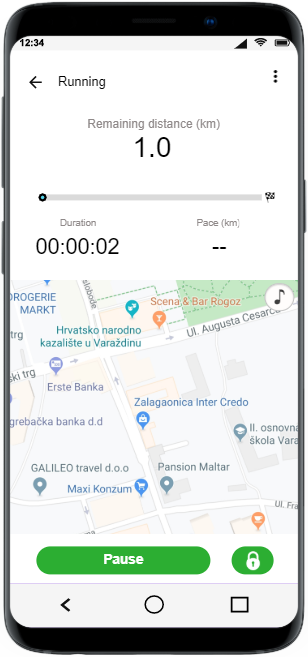
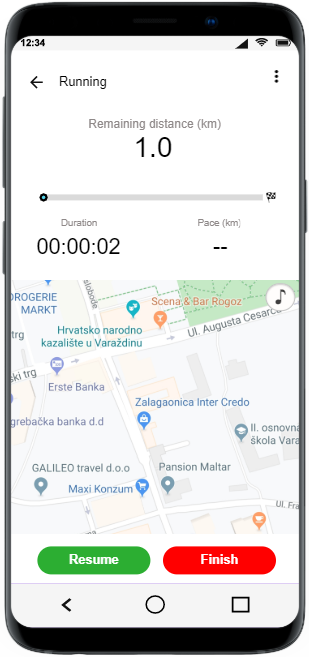
Odabirom „Running“ na ekranu „f 3.1 Exercise selection“ otvara se ekran „f 4.1 Running configuration“ na kojem je prikazana trenutna lokacija korisnika uz pomoć Google karti. Osim toga, na gornjem dijelu ekrana ima padajući izbornik u kojem korisnik može odabrati koji mu je cilj ovog trčanja u udaljenosti, koliko dugo želi trčati ili koliko kalorija želi izgubiti. U gornjem desnom kutu karte nalazi se ikona koja vodi na aplikaciju za glazbu. Pritiskom na gumb „Start“, aplikacija

započinje mjerenje.

Ekran f 4.2 Running instuctor

Ekran f 4.1 Running configuration

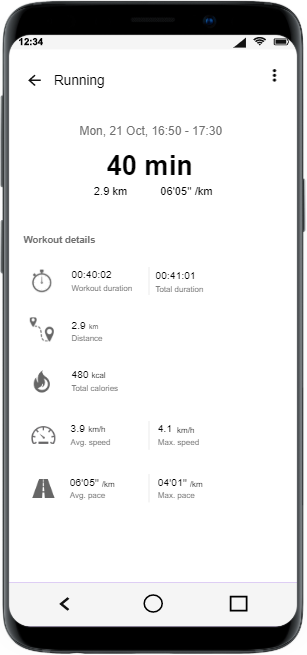
Nakon pritiska na gumb „Start“ korisnik ima mogućnost pogledati u kojoj je fazi trčanja (npr. Razdoblje zagrijavanja), te koliko je preostalo do izvršenja postavljenog cilja.

 Pritiskom na gumb „Start“ aktivira se ekran „f 4.3 Running pause“ na kojem je moguće pritisnuti na gumb „Pause“ i na gumb za zaključavanje mobitela kako se tijekom trčanja ne bi slučajno pritisnuo neki gumb. Ukoliko korisnik pritisne na gumb „Pause“ aktivira se ekran „f 4.5 Running finish“ kada se zaustavlja brojač vremena i korisnik ima dvije mogućnosti: završiti vježbanje ili se vratiti natrag na ekran „f 4.3 Running pause“.

Ekran f 4.5 Running finish

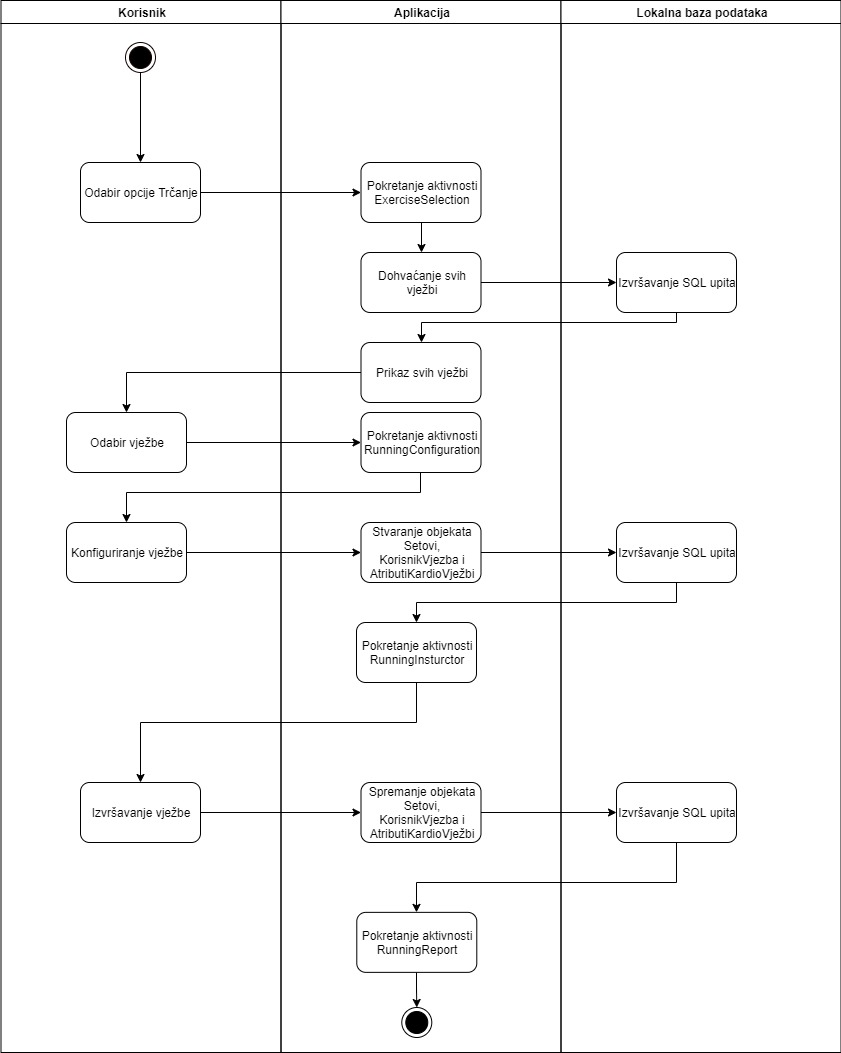
Ekran f 4.3 Running pause

Ekran f 4.4 Running details



Nakon završetka pojavljuje s ekran na kojem su vidljivi detalji upravo završenog trčanja, a to je vrijeme trčanja, prijeđena udaljenost, potrošene kalorije, prosječna brzina.

Na ovom dijagramu aktivnosti dostupan je pregled akcija aplikacije tijekom izvođenja trčanja.

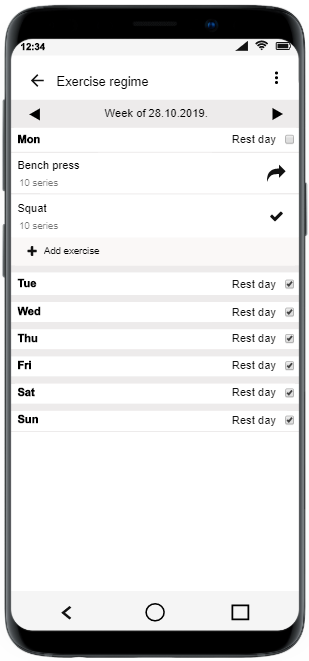


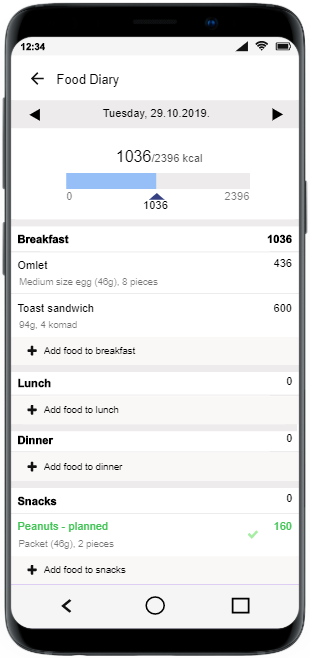
Na sljedećoj slici se nalazi dijagram klasa za Trčanje:

A close up of text on a white background

Description automatically generated

* 1. Režim i jelovnik

Klikom na „*Exercise regiment*“ na ekranu „*f 3.1 Exercise selection*“ ili klikom na ikonu za režim na tabli „*Exercises*“ ekrana glavnog izbornika „*f 2.1 Main menu*“, dolazimo do ekrana za režim „*f 5.1 Regime configuration*“. Ovdje nam je dostupan pregled planiranih vježbi po danu u tjednu. Određeni dan je moguće označiti kao dan za odmor, te u njega nije moguće dodati vježbu. Ako je vježba odrađena, pokraj nje se prikazuje kvačica, a ako još nije izvedena, dostupna je poveznica na njeno pokretanje. Dodavanje vježbe „*Add exercise*“ vodi do ekrana „*f 3.2 Exercise configuration*“ gdje se konfigurira vježba te se ta konfiguracija pamti dok se vježba ne pokrene.

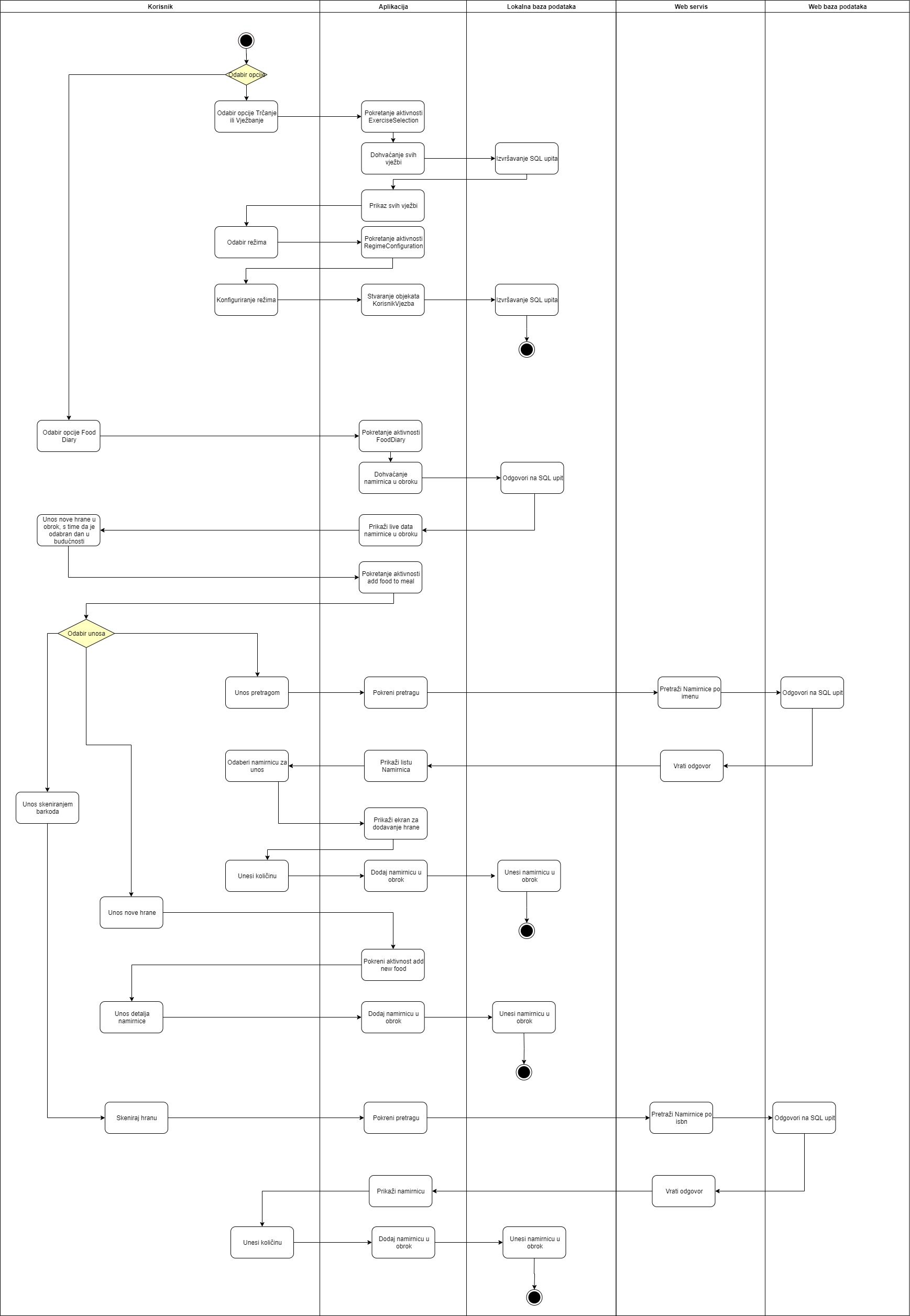


Ekran f 5.1 Regime configuration

Na ekranu za jelovnik „*f 2.2 Food Diary*“ također je dostupno planiranje jela unaprijed, jednostavno se pri dodavanju jela obroku ono označi kao planirano. Ako smo konzumirali planirano jelo, pritiskom na kvačicu ono se smatra konzumiranim, te se pribraja brojaču kalorija.

Ekran f 2.2 Food Diary

Na ovom dijagramu aktivnosti dostupan je pregled akcija aplikacije tijekom planiranja režima.



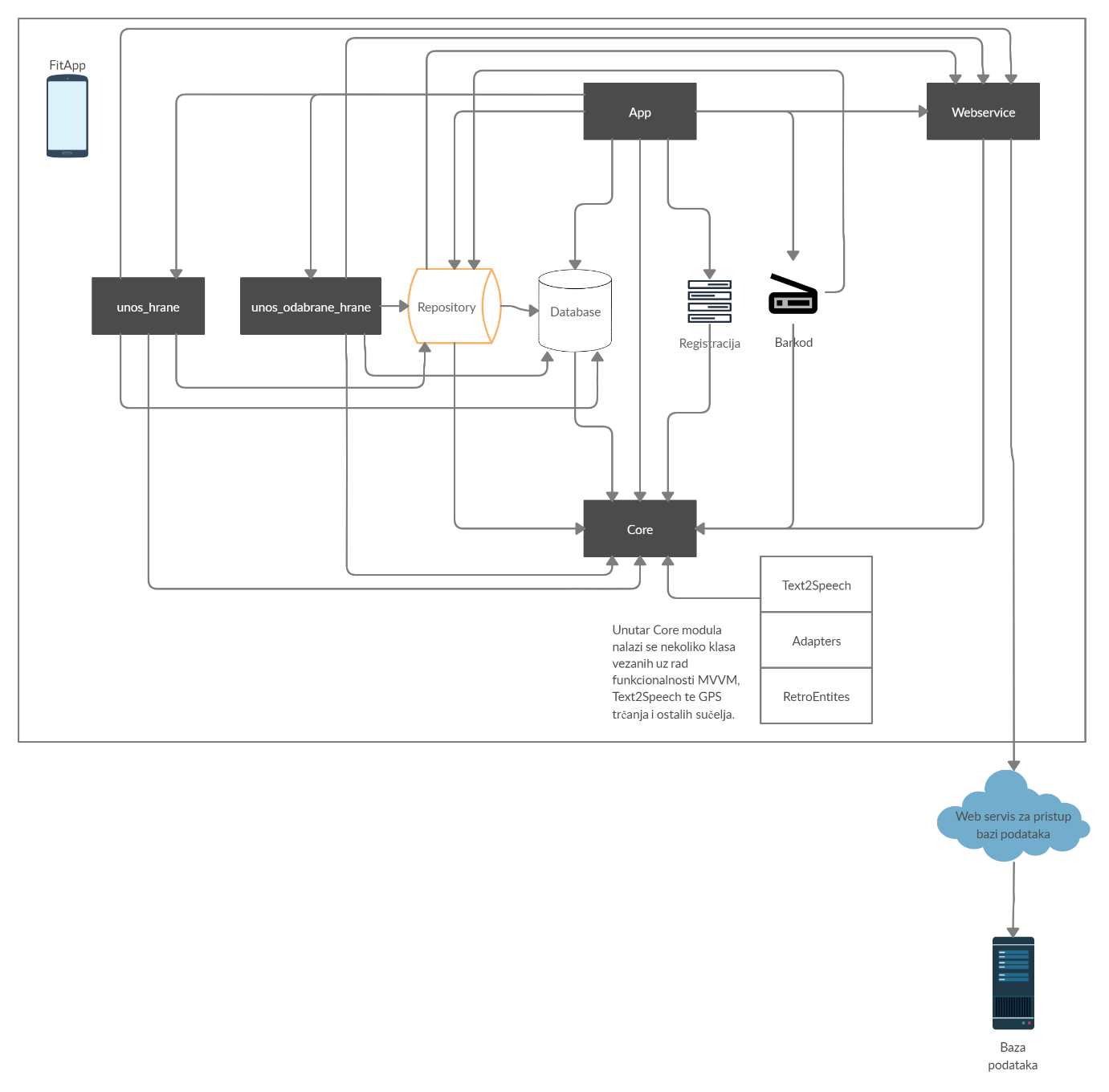
Na sljedećoj slici je prikazan dijagram klasa za Režim i jelovnik:

A close up of text on a white background

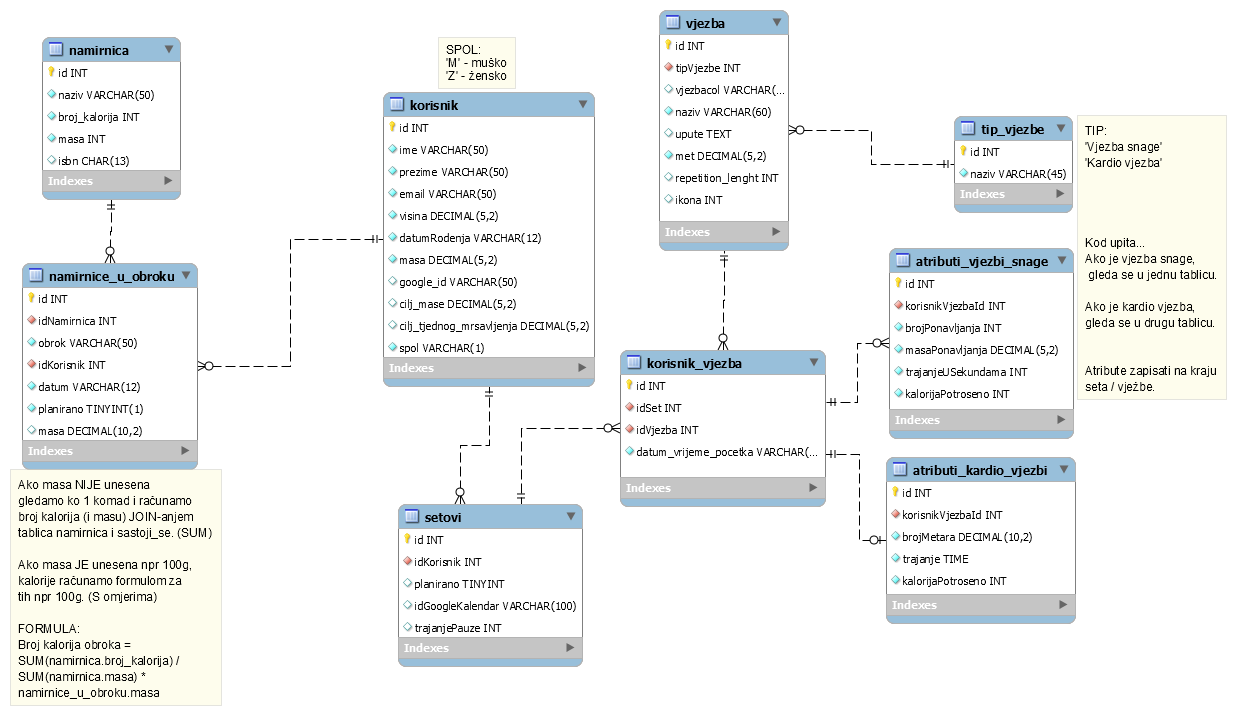
Description automatically generated

1. Tehnička dokumentacija
   1. Dizajn arhitekture softvera

Dizajn naše arhitekture je klasična troslojna arhitektura nad svakom aktivnošću ili fragmentom koja je implementirana preko MVVM (Model - View - View - Model) modela. Sve glavne aktivnosti kao i fragmenti koji sadrže korisnička sučelja nalaze se u modulu App, koji u ovom slučaju zapravo promatramo kao prezentacijski sloj. Unutar modula Core nalaze se funkcionalnosti, sučelja, klase i entiteti za rad s Retrofit servisom za dohvat podataka s web servisa, zbog navedenih ovisnosti "da svi znaju za core". Unutar barkod modula smjestili smo našu modularnost koja se temelji na čitanju barkoda s prehrambenih proizvoda te dohvat podataka s web servisa i slanje podataka k aktivnosti s koje je pozvan fragment barkod čitača. Naknadno se otvara aktivnost za odabir količine koja se potom upisuje u lokalnu bazu podataka. Modul registracije sadrži sve nužne funkcionalnosti za registraciju novog korisnika. Modul database je modul koji sadrži sve entitete (tablice) lokalne baze podataka, DAO klase te klasu za dohvaćanje instance lokalne baze podataka. Repository je modul koji sadrži klase unutar kojih se nalaze funkcije za lakši dohvat podataka iz lokalne baze podataka. Instancirane su gotove funkcije za dohvat, unos, brisanje ili ažuriranje striktnog skupa podataka. Modul unos\_hrane sadrži klase za rad s modularnošću za unos hrane, konkretno za ručni unos hrane u lokalnu bazu podataka. Webservice je modul koji sadrži klase za rad vezan uz dohvat, unos, brisanje i ažuriranje podataka s baze podataka koja se nalazi na internetu, konkretnije CRUD operacije nad tablicama korisnik i namirnica. Pomoću dijagrama oslikano je da se unutar modula Core nalaze neke od značajnijih klasa, poput adaptera za rad s ostalim view modelima, Retro entiteti, koji su zapravo entiteti dohvaćenih podataka s online baze podataka, te funkcionalnosti kao Text2Speech i GPSRunning.

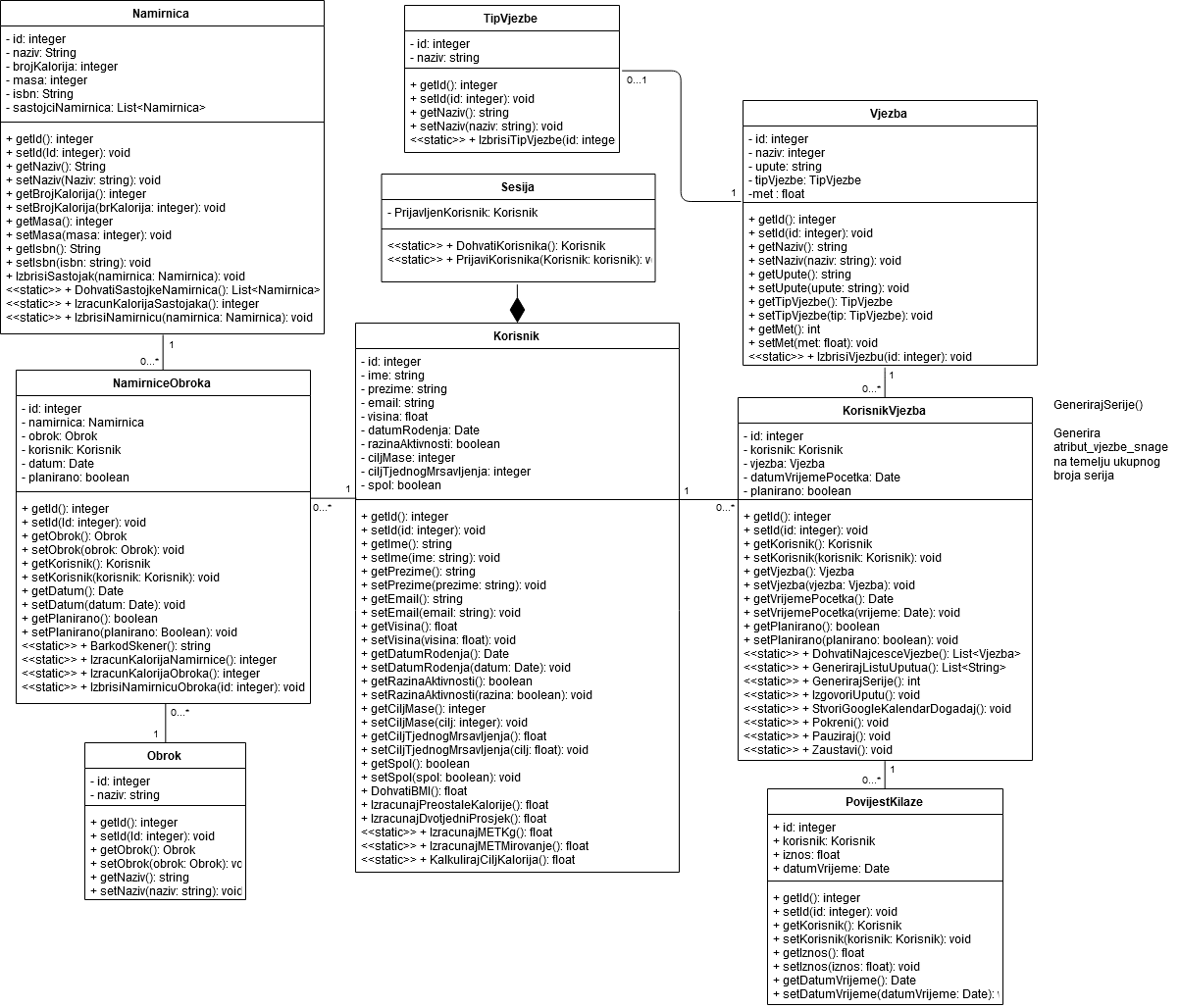


* 1. Model podataka (ERA)



* 1. Dijagram klasa

Napomena: dijagram klasa je ograničen samo na temeljne klase, generirani dijagram klasa će biti dostupan na kraju izvedbe projekta.



* 1. Web servis

Popis entiteta te njihovih operacije i metoda prikazani su u sljedećoj tablici:



* 1. Modularnosti

Planirane modularnosti su dakle:

* Trčanje - Praćenje promjene pozicije senzorima ili GPS.
* Dodavanje hrane i brojanje kalorija - Dodavanje hrane ručno pomoću  
  izbornika ili pomoću Barkod skenera

1. Prijava projektnog zadatka

Naziv projekta

FitApp

Članovi projektnog tima (za svakoga: ime i prezime, e-mail, JMBAG, GitHub korisničko ime)

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Sabina Pintar, spintar@foi.hr, 0177050711, spintar1,

Podaci o tvrtki partneru (do 200 riječi)

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RADOBOJSKA CESTA 6, KRAPINA  
Djelatnost:6201, Računalno programiranje  
OIB:02929283834

Odabrani projektni model

Model 2

Tehnologije koje ćete koristiti i ciljane platfome

Android Studio, Android OS, SourceTree, Github, DataGrip, Visual Paradigm, Google Sign-In, Calendar API, Barcode API, Cloud Text-to-Speech API, Maps API

Potrebni hardver i način kako ga osigurati

Mobilni uređaj s Android OS-om

Opis funkcionalnosti sustava (do 500 riječi, može se priložiti i skice).

1. Login i registracija
   * Uz Google Sign-In integraciju.
   * Unos mase, visine, cilja (mase, stopa mršavljenja/debljanja, broja koraka).
   * Izračun kalorijskog budžeta ovisno o cilju.
2. Dodavanje hrane i brojanje kalorija
   * CRUD hrane
   * CRUD hrane određenom obroku na određeni dan.
   * Sken barkoda proizvoda za lakši unos hrane uz Google Barcode API.
   * Dodana hrana se pridodaje brojaču kalorija.
3. Vježbe
   * Korisnik odabire vježbu i unosi broj setova, serija, masu te trajanje pauze.
   * Google Cloud Text-to-Speech API daje korisniku kratke upute te ga obavještava kada počinje i završava pauza te kada je završio vježbu.
   * Ovisno o njegovoj visini, težini te težini samih utega, računaju mu se kalorije koje je potrošio te se oduzimaju od brojača kalorija.
4. Trčanje
   * Praćenje promjene pozicije senzorima ili GPS.
   * Google Maps API.
   * Naposljetku ovisno o njegovoj visini, masi te brzini, računaju mu se kalorije koje je potrošio te se oduzimaju od brojača kalorija.
5. Režim i jelovnik
   * Korisnik radi CRUD vježbe na režim, s brojem setova, serija, masom te trajanje pauze.
   * Korisnik radi CRUD nad hranom koju planira konzumirati u obroku određenog dana.
   * Pri pregledu režima može pokrenuti vježbu s planiranim postavkama, pri pregledu jelovnika može označiti hranu kao konzumiranu.
   * Pri stvaranju ili ažuriranju režima i jelovnika stvaraju se korespondirajući događaji preko Google Calendar API.