Univerzitet „Džemal Bijedić“ Mostar

Fakultet informacijskih tehnologija

Dinamička verifikacija softvera

- Formalne metode -

Profesor: van. prof. dr Nina Bijedić Student: Edin Pinjić

**IZJAVA O AUTORSTVU**

Ja, **Edin (Kemal) Pinjić,** student Fakulteta informacijskih tehnologija, Univerziteta „Džemal Bijedić“ u Mostaru, pod punom moralnom, materijalnom i krivičnom odgovornošću,

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# Uvod

Od samog početka kreiranja informacijskih sistema, pa sve do njegovog završetka, nastaju greške koje su u tim fazama zasigurno neizbježne. Najčešći način provjere tih grešaka, u informacijskim sistemima, jeste upotreba testiranja i simulacija. Ipak ove tehnike ne mogu u potpunosti garantirati nepostojanje nedostataka u sistemu. Sve dok su programi bili relativno mali, njihova operativna analiza mogla je pružiti uvjerljive dokaze o njihovoj adekvatnosti denotacije. Kako su aplikacije rasle u veličini i složenosti, a kako su jezici na visokom nivou umanjili bliskost između programske i računarske arhitekture, takvi operativni argumenti postali su manje ubjedljivi [7]. Dakle, potrebno je nešto mnogo pouzdanije, a ono što daje jako kvalitetnije i pouzdanije informacije o ispravnosti našeg sistema jeste formalna specifikacija sistema, tj. pisanje formalne specifikacije sistema na kojem se mogu dokazati različita svojstva i matematički dokazati da se implementacija sistema pridržava specifikacija. Treba napomenuti da formalne metode nisu nešto novo, nego su se one koristile još ranim fazama naše civilizacije. Na primjer Babilonci (1800. pr. Kr.) Postavili su svoje astronomske baze podataka i matematičke tablice u prvi normalan klinac [7]. Platon (400. pr. Kr.), U Sofistu, dao nam je strukturiranu analizu mnogo prije nego što smo znali za šta ga treba koristiti[7]. Formalne metode nam omogućavaju da daju opis sistemima da se razvijaju, na bilo kojem nivou željenog detalja. Ovaj formalni opis može da se koristi za usmjeravanje daljeg razvoja aktivnosti. Pored toga, može da se koristi da provjeri da li su zahtjevi za razvijen sistem potpuno i tačno naznačeni. Potreba za formalnom specifikacijom sistema je istaknuta godinama. U izvještaju ALGOL 58 ,[5] Džon Bakus predstavio je formalni zapis za opisivanje sintakse programskog jezika (kasnije nazvana Bakus normalna forma kasnije preimenovana Bakus–Naurova forma (BNF)[6]). Bakus je također napisao da formalni opis značenja sintaksi važećih Algol programa nije završena na vrijeme za uključivanje u izvještaj. "Stoga formalni tretman semantike pravnih programa biće uključen u narednom papiru." To se nije pojavilo.

U pomenutim formalnim metodama postoje dvije vrste verifikacija, odnosno testiranja softvera, a to su dinamička i statička verifikacija. Statička verifikacija softvera je vrsta testiranja koje se izvršava kako bi se provjerili nedostaci u softveru bez izvršavanja samog softvera. Međutim, kod dinamičke verifikacije je obratno, tj. kôd softvera se pokreće i na taj način se otkrivaju anomalije istog. Treba napomenuti da je statičko ispitivanje, za razliku od dinamičkog mnogo jeftinije, a i greške ispitivanja su lakše uočljive i pogodnije za ispravljanje, jer vrši se u ranoj fazi razvoja samog softvera.

Cilj ovog rada je da se prikažu osnovni koncepti dinamičke verifikacije i da se kroz primjer softvera „Studentski servis“ prikažu formalne metode, konkretno integracijsko testiranje, ali i jedinično testiranje, te na koji način se mogu koristiti kako bi se otkrile nepravilnosti u kôdu. „Studentski servis“ je aplikacija koja je rađena kao seminarski rad za predmeta Razvoj softvera I.

# Formalne metode

Formalne metode su tehnike dizajniranja sistema koje koriste strogo određene matematičke tehnike i alate za specifikaciju, dizajn i verifikaciju softverskih i hardverskih sistema. Ovo znači da se specifikacija sastoji od dobro formiranih izjava koristeći matematičku logiku i da se formalna verifikacija sastoji od edukcija izvedenih iz te logike. Snaga formalnih metoda jeste da omogućavaju verifikaciju kompletnog prostora sistema [1] i da dokazane osobine, koje stoje u sistemu, će stojati i za sve moguće ulaze. Kada se formalne metode ne mogu koristiti kroz čitavu fazu razvoja sistema, zbog kompleksnosti sistema, nedostatka alata ili nekih drugih razloga, one se i dalje mogu koristiti na dijelovima sistema, kao na primjer u dijelovima sistema koji su zaduženi za sigurnost kritičnih komponenti. Veliki broj različitih formalnih metoda je rezultat različitih metoda modeliranja i dokaznih pristupa potrebnih različitim domenama primjena. Također različite faze razvoja sistema mogu zahtijevati različite metode, tehnike ili alate. Iako je veliki broj razvijenih formalnih metoda rezultat istraživačkih napora na univerzitetima, sve je više formalnih metoda dostupnih izvan akademskih zajednica. Kada se novi sistem implementira obično je prvi korak pisanje specifikacije zahtjeva. Ta specifikacija treba da tačno opiše željeno ponašanje sistema te da bude kompletna i nedvoznačna, što može biti teško za izvesti. Nakon završetka specifikacije, programer, koji također razumije specifikaciju, prevodi istu u kôd te ispravlja sve nejasne i dvoznačne dijelove. Programer koji piše kôd može napraviti grešku u kôdu, zatim sama veličina sistema, koja može biti tolika da je teško pratiti sve dijelove sistema koji moraju raditi prema uputama specifikacije. Nadalje, često se koristi više različitih timova u razvoju sistema, što također može biti izvor grešaka, jer će svaki tim imati svoj način rada, svoju interpretaciju specifikacije zahtjeva i informacija dijeljenih tokom faze razvoja sistema. Tokom i nakon faze pisanja koda, obično se vrše testiranja sistema kako bi se utvrdilo da ispunjava postavljane uslove te da nema prisutnih grešaka (bug-ova). Testiranje velikih i složenih sistema može koštati mnogo vremena, te zbog same veličine sistema i količine kôda, iscrpno testiranje nije ostvarljivo. Uprkos tome, kada je u pitanju sistem, koji je sigurnosno kritičan, njegova ispravnost mora biti garantovana, što zahtjeva iscrpno testiranje ili način dokazivanja da je kod ispravno implementiran prema zadanoj specifikaciji. Koncept formalnih metoda nam predstavlja alate za matematičko opisivanje sistema ili dijelova sistema u specifikaciji i za dokazivanje da rezultirajući program zapravo ispunjava uslove zadane u specifikaciji. Formalna verifikacija je precizna i nema mogućnosti za pogrešnom interpretacijom. Naravno, u praksi se ne može u potpunosti garantovati da implementacija nema grešaka, jer same formalne metode mogu imati svoje mane ili čak može biti i greška u samom dokazu. Međutim, povećano korištenje formalnih metoda i alata će rezultirati boljim implementacijama i pouzdanijim metodama i alatima. Ograničenje formalnih metoda je to što mogu samo biti korištene za dokazivanje ispravnosti sistema prema specifikaciji. Stoga, samo zato što je implementacija matematički dokazana da prati pravila specifikacije, to ne znači da je specifikacija sama po sebi ispravna i bez grešaka. Bez obzira, osobine i dalje mogu biti dokazane kako bi se pojačalo uvjerenje da specifikacija tačno predstavlja željene funkcionalnosti.

Ukratko, korištenjem formalnih metoda mogu se pronaći greške u ranim fazama razvoja sistema, te se neke klase grešaka mogu skoro u potpunosti ukloniti.

## Klasifikacija formalnih metoda

Postoji nekoliko različitih klasifikacija formalnih metoda, ali generalno gledajući formalne metode se koriste u dva aspekta:

• Da bi se primijenilo željeno ponašanje sistema prema specifikaciji. Specifikacija je model sistema koji opisuje kako se sistema mora ponašati, a formalne metode se koriste za validaciju metode;

• Da potvrdi da implementacija ima isto ponašanje kao što je navedeno u specifikaciji ili da dobavi implementaciju koja ima isto ponašanje kao i specifikacija. Ovdje se govori o formalnim vezama implementacije i specifikacije;

Još jedan način klasifikacije je na osnovu nivoa korištenja formalnih metoda:

• Nivo 0: Kada se formalne metode koriste samo za opisivanje željene funkcije i za usmjeravanje razvoja;

• Nivo 1: Kada se formalne metode koriste za provjeru funkcija;

• Nivo 2: Kada se formalne metode koriste za provjeravanje cijelog sistema kroz sve funkcije;

Još jedna generalna klasifikacija formalnih metoda može biti prema tome kako je model sistema opisan:

• Kao tranzicija sistema sa stanjima, tranzicija i stanje transformacije;

• Kao neka programska logika sa pre (prije) i post (poslije) uslovima kao i sa aksiomima i pravilima zaključka;

Treći način klasifikacije formalnih metoda je:

• Formalne metode koje se koriste za specificiranje i analizu specifikacije;

• Formalne metode koje se koriste za specificiranje i dokazivanje osobina specifikacije (formalna verifikacija);

• Formalne metode koje se koriste za specificiranje i izvođenje implementacije iz specifikacije;

• Formalne metode koje se koriste za specificiranje i transformaciju specifikacije, transformacije koje ili sakrivaju detalje specifikacije ili obogaćuju specifikaciju sa više detalje;

## Prednosti formalnih metoda

Formalne metode su dobar način otkrivanja pogrešaka u specifikaciji, utvrđivanju tačnosti sistema i predstavljanju sistem na nedvosmislen način. Upotreba ovakve metode može smanjiti troškove ukoliko se koristi na nekim manjim, ali kritičnim dijelovima sistema za koje je bitno da su precizni, bez grešaka. Neke prednosti korištenja formalnih metoda su sljedeće [3]:

* bolji uvid u zahtjeve, otklanjanje nesporazuma, smanjenje mogućnosti grešaka (što sve pridonosi pouzdanosti softvera);
* analiziranje matematičkim metodama (potpunost, konzistentnost);
* može služiti kao podloga za formalnu verifikaciju implementiranog sistema;
* mogućnost „animacije“ specifikacije u svrhu prototipiranja;

## Nedostaci formalnih metoda

Kao i sve drugo, ni pomenuta metoda nije bez mana. Unatoč svim gore navedenim prednostima, formalne metode ograničene su u praktičnom razvoju softvera, kako za veće sustave tako i za kritične dijelove sustava. Stoga je i malo stručnjaka koji imaju iskustva u razvoju ovakvom metodom. Razlozi za nekorištenje formalne metode su sljedeći [3]:

* Nerazumljiva je korisnicima i menadžmentu (korisnicima je teže provjeriti ispunjava li specifikacija njihove zahtjeve);
* Zahtijeva posebno osposobljene softverske inžinjere;
* Nije pogodna za interaktivne sisteme i sučelja;
* Nije skalabilna, za veće sustave količina posla postane prevelika;
* Nije kompatibilna s agilnom metodom razvoja softvera;

# Dinamička verifikacija

Dinamička verifikacija softvera nije ništa drugo nego testiranje samog softvera kada je u stanju da se uspješno izvrši njegovo pokretanje. Jer kao što je ranije pomenuto, ova vrsta formalne metode se vrši tako što se kôd softvera mora prvo pokrenuti, pa tek nakon toga vršiti poznate metode testiranja. Kada se govori o dinamičkoj verifikaciji, odnosno dinamičkom testiranju, zavisno o pogledu testiranja, mogu se kategorizirati tri familije:

* Prva familija je „Unit testing“, tj. testiranje jedinki ili jedinično testiranje, gdje se vrši testiranje na malo, odnosno testira se samo jedna funkcija ili klasa. Moglo bi se reći da je ovaj način testiranja ujedno i najjednostavniji;
* Druga familija testiranja je testiranje na veliko u koje spadaju modul testiranje i integracijsko testiranje. U ovoj familiji se vrši testiranje grupa klasa, dakle ili jedan modul ili više modula;
* Treća familija testiranja jeste test prihvatljivosti koji je ustvari formalni test koji je definiran da provjerava prihvatljivosti kriterija samog softvera. U pomenutoj familiji pripadaju dva testiranja, a to su test funkcionalnosti i test nefunkcionalnosti;

## 3.1. Jedinično testiranje (Unit testing)

Jediničnim testiranjem provjeravamo ispravnost pojedini jedinice bez ikakve veze sa drugim jedinicama i to je prva vrsta testiranja koja se izvodi nad softverskim rješenjem. Jedinično testiranje se zasniva na tome da se uzme jedan mali dio koda, konkretno na primjer jednu funkciju, te putem testiranja šaljemo one podatke koje ta ista funkcija prima [1]. U slučaju da funkcija vraća željene podatke prilikom slanja adekvatnih parametara i ako ne vraća one podatke koje treba prilikom slanja neadekvatnih parametara, možemo sa sigurnošću reći da je testirana funkcija u redu i da ne bi trebala stvarati ikakve probleme u daljem razvoju sistema. Ovim načinom testiranja možemo biti sigurni da se sve pronađene greške odnose samo na testiranu jedinicu (unit), te ih je zbog toga jednostavnije ispraviti. Ukoliko se provjeri da se svaki dio programskog kôda ponaša na željeni način, manja je vjerovatnoća da će se pojaviti greške u završnom proizvodu. Prednost jedinično testiranja je pronalazak grešaka u veoma ranoj fazi implementacije, zbog čega je jednostavnije i brže ispraviti pronađene anomalije. Osim toga, jedinično testiranje pomaže pri održavanju programskog kôda, jer se osigurava da nastale promjene ne utiču na ostatak programskog kôda. Ukratko rečeno, ovakvo testiranje je najjednostavnije i jako je prosto, ali svejedno ima velik uticaj u pronalaženju i ispravljanju grešaka u programskom kôdu. U današnjem svijetu razvoja softvera, skoro da je nezamislivo upotpuniti razvoj sistema bez ijednog jedinično testa.

### Praktični prikaz jediničnog testiranja

U nastavku će biti prikazana primjena jediničnog (unit) testiranja nad već pomenutim sistemom „Studenski servis“ u razvojnom okruženju Visual Studio 2019.

Kao prvo, u već postojeći projekat dodan je novi projekat pod standardnim nazivom Unit Test Project (.NET Framework). U ovom projektu će se pisati sav potreban kôd za jedinično testiranje sistemskih jedinki. Prikazano je na sljedećoj slici.

![A screenshot of a social media post

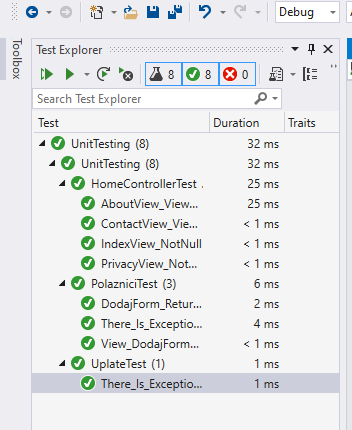
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Slika 1 - Dodavanje novog projekta pod nazivom „Unit Test Project (.NET Framework)“ za vršenje jediničnog testiranja u C# jeziku (VS\_Community\_2019\_ENU.1033)

Nakon kreiranja odgovarajućeg projekta, u daljem radu će biti prikazan postupak rada i rezultat pojedinih izvršenih testova.

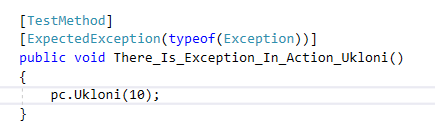


Slika 2 - Primjer urađenog jediničnog testa nad funkcijama projekta gdje se provjerava da li funkcije vraćaju očekivane rezultate

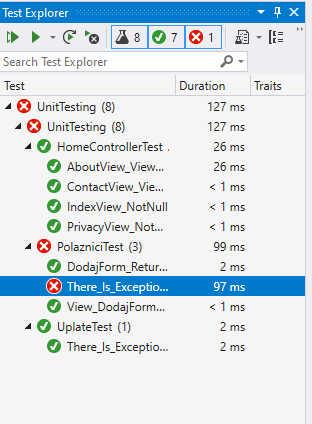


Slika 3 - Podaci izvršenog testiranja gdje se potvrđuje da testirane funkcije vraćaju očekivane rezultate (VS\_Community\_2019\_ENU.1033)

Na prethodnim slikama je prikazan primjer nekoliko unit testiranja, te njihov rezultat u Test Explorer-u. Kao što se može vidjeti iz priloženog, utrošeno vrijeme je jako malo, dakle mjereno je u milisekundama. Provjereno je da li određene akcije ne vraćaju potrebni poziv i da li se nakon određene akcije ispisuje potrebna poruka. S obzirom da je kôd ispravan i sam test nam to potvrđuje.



Slika 4 – Dio kôda koji je prepravljen tako da nas razvojno okruženje, prilikom testiranja, obavijesti o nastaloj anomaliji nastaloj na odabranoj funkciji



Slika 5 - Podaci o namjerno prepravljenom testiranju funkcije gdje se i očekivalo javljanje greške unutar testiranje funkcije (VS\_Community\_2019\_ENU.1033)

Prethodne dvije slike prikazuju grešku koja je nastala namjerno/nenamjerno. Iz priloženog se vidi da prilikom brisanja podatka sa ID-jem 10 ne dolazi do izuzetaka, te se operacija izvršava bez problema. Međutim, putem testa se htjelo testirati da li uspješno akcija baca izuzetak. Odmah što nam pada na oči jeste veće vrijeme testiranja. Dakle utrošeno je čak 93 ms više u odnosu na prethodno testiranje, a samim tim i veći resursi utrošeni na akciju. S obzirom da nismo testom dobili ono što želimo, tj. potvrdu da je funkcija ispravna, Test explorer nas odmah obavještava koji to dio kôda ne valja.

Dakle, iz priloženog se može vidjeti da jako brzo, bez mnogo komplikacija, možemo izvršiti testiranje jedinice sistema i možemo jako brzo saznati koji nam to dijelovi kôda valjaju, a koji ne i možemo vidjeti koliko se brzo svaka pojedinačno funkcija izvršava, te na osnovu toga popraviti efikasnost kôda našeg sistema.

## 3.2. Integracijsko testiranje (Integration testing)

Nakon jediničnog testiranja slijedi vršenje integracijskog testiranja našeg sistema. Integracijom nazivamo podsistem ili veću jedinicu koja nastaje povezivanjem programskih jedinica [1]. Iako je svaka programska jedinica testirana, nakon povezivanja nekoliko jedinica potrebno je provjeriti da li surađuju ispravno. Integracijskim testiranjem provjeravamo zajednički rad nekoliko programskih jedinica i njihovu međusobnu interakciju [1]. Međutim, jedan od najvećih problema pri integracijskom testiranju je određivanje najboljeg načina povezivanja programskih jedinica. Cilj je povezati jedinice u smislene cjeline kako bi se sistem lakše testirao.

Za grupiranje programskih jedinica može se koristiti neki od sljedećih pristupa [2]:

* Inkrementalna integracija – Integracija koja se realizira sa postupnim dodavanjem

programskih jedinica;

* Integracija odozgo prema dole (Top - Down) – Integracija se vrši od najvišeg modula prema nižim modulima;
* Integracija odozdo prema gore (Bottom - Up) – Integracija se vrši od najnižih modula prema višim modulima;
* Sendvič integracija – Predstavlja kombinaciju pristupa odozgo prema dole i odozdo prema gore;
* Veliki prasak – Testiranje svih pojedinačnih modula, te se u jednom koraku, nakon testiranja, integriraju u cjelinu;

### 3.2.1. Praktični prikaz integracijskog testiranja

U nastavku će biti prikazana primjena integracijskog testiranja nad već pomenutim sistemom „Studentski servis“ u razvojnom okruženju Visual Studio 2019.

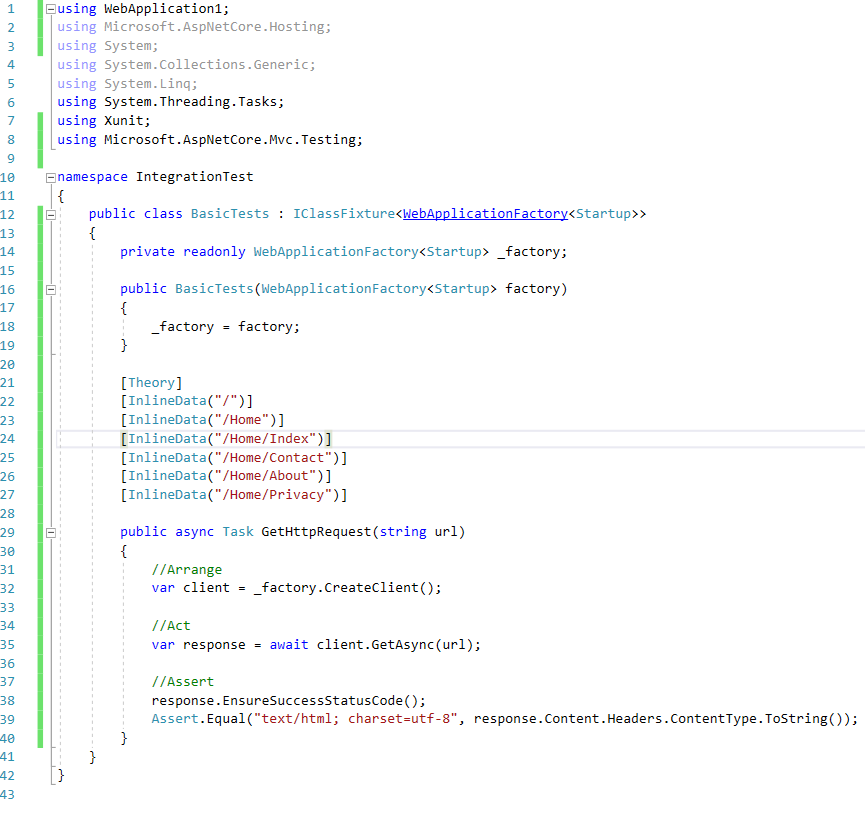
Za razliku od jediničnog testa (unit test), integracijski test je nešto kompleksniji i zahtjevniji. Postoje razlike u pripremi i obradi testova. Prvo što nam je učiniti jeste u već postojeći projekat dodati novi projekat pod nazivom „xUnit Test Project (.NET Core)“. U ovom projektu će se pisati sav potreban kôd za integracijsko testiranje sistemskih jedinki. Prikazano je na sljedećoj slici.

A close up of text on a white background

Description automatically generated

Slika 6 - Dodavanje novog projekta pod nazivom „xUnit Test Project (.NET Core)“ za vršenje integracijskog testiranja u C# jeziku (VS\_Community\_2019\_ENU.1033)

Nakon kreiranja odgovarajućeg projekta, u daljem radu će biti prikazan postupak rada i rezultat pojedinih izvršenih testova.



Slika 7 - Primjer urađenog integracijskog testa nad funkcijama projekta gdje se provjerava ispravnost URL adresa

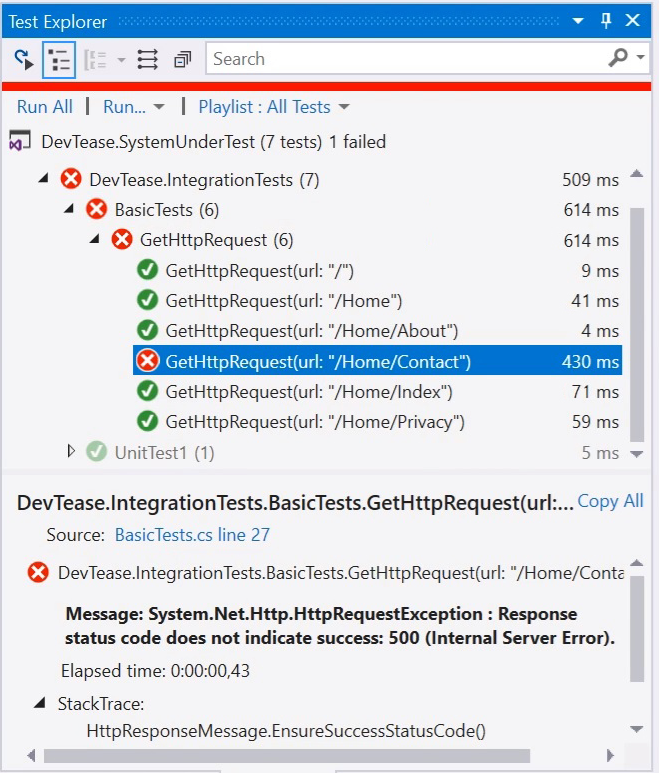
A screenshot of a cell phone

Description automatically generated

Slika 8 - Podaci izvršenog testiranja gdje se potvrđuje ispravnost URL adresa (VS\_Community\_2019\_ENU.1033)

Slika 7 nam prikazuje jedan primjer pripremljenog integracijsko testiranja. Prvobitno je kreiran HTTP klijent preko kojeg će se dobijati zahtjevi za dobavljanje određenih URL adresa. Kada se ovaj test pokrene „WebapplicationFactory“ pokreće aplikaciju kao dio pokretanja testa. Vrši se simulacija web servera, te se na taj način omogućava vršenje integracijskog testiranja.

Na sljedećoj slici, tj. slika 8, prikazan je rezultat izvršenog testa na Test Explorer-u i može se primjetiti da se dobavljanje postavljenih URL adresa vrši bez ikakvih problema. Također se može primjetiti, kao i kod jediničnog testiranja da nam prikazano proteklo vrijeme odzvanjanja određenih adresa.



Slika 9 – Podaci o namjerno prepravljenom testiranju funkcije gdje se i očekivalo javljanje greške unutar testiranje funkcije (VS\_Community\_2019\_ENU.1033)

Na slici 9 se jasno vidi nastala greška prilikom pokretanja integracijskog testa. U ovom slučaju, na komandu poziva URL-a „/Home/Contact“ nije reagovao, te nam vraća statusni kôd 500, tj. greška na serverskoj strani. Odmah znamo da sa tom funkcijom, odnosno stranicom moramo još raditi kako se ne bi ponovo pojavila ista greška. Također se može vidjeti proteklo vrijeme i u poređenju sa uspješnim testom, vidimo da je bilo potrebno više vremena da se izvrši poziv. Na žalost, ovakvi testovi nam ne govore na kojoj liniji našeg kôda se nalazi greška, tj. šta konkretno moramo izmijeniti. Međutim, svaki dovoljno pismen razvijaš softvera bi trebao u relativno brzo vrijeme naći uzrok greške i ispraviti je.

Iz primjera jasno vidimo pravu težinu integracijskog testa. Zahvaljujući integracijskom testiranju, simulacijom servera, te povezivanje više jedinki u jednu cjelinu, jasnije se uočavaju greške koje su nastale tokom razvoja.

# Zaključak

U svijetu informacijskih tehnologija, gdje informacijski sistemi ulaze sve više u upotrebu u svakom dijelu naše svakodnevnice, potrebno je osigurati ispravnost i efikasnost ovih sistema. O nekim informacijskim sistemima ovise životi mnogih ljudi, te su ti sistemi od ključne važnosti i u takvim okolnostima je važno da se otkloni svaka mogućnost bilo kakve greške. Jedan od načina jeste korištenjem formalnih metoda, konkretno dinamičkom verifikacijom softvera, jer na taj način se daje pečat na čitav urađeni sistem od strane razvijača ili testera. Iz prethodnih primjera nad aplikacijom „Studentski servis“ se moglo vidjeti da nas dinamička verifikacija, konkretno jedinično i integracijsko testiranje, upozorava na one dijelove projekta gdje je potrebno izvršiti ili popravku ili optimizaciju kôda. Pronalaskom anomalija, programeri mogu da se fokusiraju na te kritične dijelove i uklone moguće anomalije, čime će se uštediti mnogo vremena i nerava. Dinamička verifikacija nije savršena, te ima svoje nedostatke. Sama po sebi nije dovoljna da bi se osigurao kvalitetan sistem bez grešaka, jer postoje greške koje ne može da prepozna. Dinamička verifikacija je dobra u pronalasku grešaka koje statička verifikacija ne može da pronađe, te je statička verifikacija dobra u pronalasku grešaka koje dinamička verifikacije ne može da pronađe. Ta činjenica pokazuje kako se statička i dinamička verifikacija upotpunjuju kada se pravilno kombinuju, te se na taj način može izgraditi savršen sistem koji nema greške i koji radi optimalno. Dinamička verifikacija je moćna i može spriječiti velike gubitke kada se pravilno koristi. Informacijski sistem koji koristi formalne metode, konkretno dinamičku verifikaciju, definitivno će imati kvalitetniji kôd koji je lahko održavati i unaprjeđivati, a to je u svijetu informacijskih tehnologija vrijedna kvaliteta.

Zaključak svega navedenoga jeste da je dinamička verifikacija jako korisna ako se pravilno koristi, te se preporučuje prilikom razvoja bilo koje aplikacije. Ne oduzima puno vremena da se jedinično i/ili integracijski testira kôd, a pruža jasniju sliku kôda programeru, te pomaže programeru pisati čitljiviji i razumljiviji kôd. Dinamičku verifikaciju nije pretjerano teško savladati, ali, kao i sve ostale stvari, zahtjeva vrijeme i strpljenje. Potrebno je dosta vremena da bi se pronašla odgovarajuća literatura, te još toliko vremena kako bi se pročitao i razumio materijal. Ali ovo ulaganje vremena se na kraju isplaćuje kada se napiše kôd koji nema grešaka i koji je lahko razumjeti i čitati, pogotovo ako se pravi veliki informacijski sistem sa mnogo funkcionalnosti.

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