Task 2 - Inspekcija koda

Uloge u timu:

- Moderator i zapisničar: Zijad Lendo
- Autor/programer/developer: Emir Kapić
- Recenzent/ocjenjivač: Emir Kapić, Eman Alibalić, Zijad Lendo, Alem Muratović i Muaz Sikirić

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Tabela grešaka

Ozbiljnost	Opis
5 (kritično)	(1) Sprječava postizanje osnovnih mogućnosti.(2) Ugrožava sigurnost, zaštitu i druge kritične zahtjeve.
4	 (1) Nepovoljno utiče na postizanje osnovnih mogućnosti, kada rješenje kojim se greška može izbjeći nije poznato. (2) Nepovoljno utiče na tehnički, troškovni i rasporedni rizik projekta ili sistemskog održavanja, kada rješenje kojim se greška može izbjeći nije poznato.
3	 (1) Nepovoljno utiče na postizanje osnovnih mogućnosti, ali je rješenje kojim se greška može izbjeći poznato. (2) Nepovoljno utiče na tehnički, troškovni i rasporedni rizik projekta ili sistemskog održavanja, ali je rješenje kojim se greška može izbjeći poznato.
2	 (1) Korisnička/operatorska neudobnost koja ne utiče na zahtijevanu misiju ili operaterove osnovne mogućnosti. (2) Neugodnost za programere ili personal na održavanju, ali ne sprečava realizaciju ovih odgovornosti.
1 (minorno)	Bilo koji drugi efekat.

Izvještaji o greškama

Lista provjere (1)

Lista provjere (1)
Struktura
☑ Does the code completely and correctly implement the design?
☑ Does the code conform to any pertinent coding standards?
☑ Is the code well-structured, consistent in style, and consistently formatted?
☐ Are there any uncalled or unneeded procedures or any unreachable code?
☐ Are there any leftover stubs or test routines in the code?
☐ Can any code be replaced by calls to external reusable components or library functions?
Are there any blocks of repeated code that could be condensed into a single procedure?
✓ Is storage use efficient?
Are symbolics used rather than "magic number" constants or string constants?
Are any modules excessively complex and should be restructured or split into multiple routines?
Dokumentacija
☑ Is the code clearly and adequately documented with an easy-to-maintain
commenting style?
✓ Are all comments consistent with the code?
Varijable
✓ Are all variables properly defined with meaningful, consistent, and clear names?
☑ Do all assigned variables have proper type consistency or casting?
☐ Are there any redundant or unused variables?
Aritmetičke operacije
☑ Does the code avoid comparing floating-point numbers for equality?
☑ Does the code systematically prevent rounding errors?
☑ Does the code avoid additions and subtractions on numbers with greatly different

Petlje i grananja

magnitudes?

☑ Are divisors tested for zero or noise?

Are all loops, branches, and logic constructs complete, correct, and properly nested?
Are the most common cases tested first in IFELSEIF chains?
Are all cases covered in an IFELSEIF or CASE block, including ELSE or DEFAULT clauses?
Does every case statement have a default?
Are loop termination conditions obvious and invariably achievable?
Are indexes or subscripts properly initialized, just prior to the loop?
Can any statements that are enclosed within loops be placed outside the loops?
Does the code in the loop avoid manipulating the index variable or using it upon exit from the loop?
nzivno programiranje
Are indexes, pointers, and subscripts tested against array, record, or file bounds?
Are imported data and input arguments tested for validity and completeness?
Are all output variables assigned?
Are the correct data operated on in each statement?
Is every memory allocation deallocated?
Are timeouts or error traps used for external device accesses?
Are files checked for existence before attempting to access them?
Are all files and devices left in the correct state upon program termination?

Izvještaj (1) o greškama za sesiju inspekcije

Datum sesije: 16.12.2023. Izvještaj pripremio: Emir Kapić

Naziv projekta: TechHaven

Dokument inspekcije: <u>Pregled dizajna</u> Verzija: <u>1</u>

Sekcije dokumenta koje su predmet inspekcije: OrdersController,

<u>HighestPriceStrategy i LowestPriceStrategy</u>

Inspekcijski tim: Emir Kapić, Eman Alibalić, Zijad Lendo, Alem Muratović I Muaz Sikirić

1 Lista grešaka

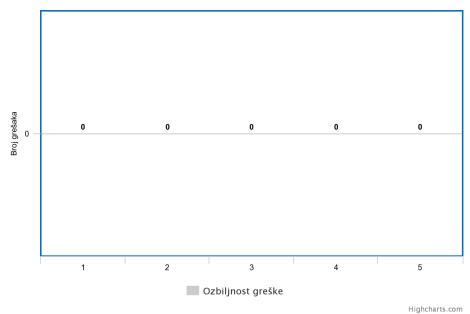
#	Tip greške (ozbiljnost)	Priroda greške	Opis greške	Lokacija greške
	Ukupno: 20 minuta			

2 Aktivnosti nakon formalnog pregleda dizajna (Follow up decisions)

A Slijede ispravke diskusiranih dijelova

3 Komentari

*W-Wrong, M-Missing, O-Other



Lista provjere (2)

Struktura

☑ Does the code completely and correctly implement the design?
☑ Does the code conform to any pertinent coding standards?
☑ Is the code well-structured, consistent in style, and consistently formatted?
☐ Are there any uncalled or unneeded procedures or any unreachable code?
Are there any leftover stubs or test routines in the code?
Can any code be replaced by calls to external reusable components or library functions?
Are there any blocks of repeated code that could be condensed into a single procedure?
☑ Is storage use efficient?
☑ Are symbolics used rather than "magic number" constants or string constants?
☐ Are any modules excessively complex and should be restructured or split into multiple routines?
Dokumentacija
Is the code clearly and adequately documented with an easy-to-maintain commenting style?
✓ Are all comments consistent with the code?
Varijable
☑ Are all variables properly defined with meaningful, consistent, and clear names?
☑ Do all assigned variables have proper type consistency or casting?
☐ Are there any redundant or unused variables?
Aritmetičke operacije
☑ Does the code avoid comparing floating-point numbers for equality?
☑ Does the code systematically prevent rounding errors?
☑ Does the code avoid additions and subtractions on numbers with greatly different magnitudes?
☑ Are divisors tested for zero or noise?
Petlje i grananja
✓ Are all loops, branches, and logic constructs complete, correct, and properly
nested?
☑ Are the most common cases tested first in IFELSEIF chains?

		Are all cases covered in an IFELSEIF or CASE block, including ELSE or
		DEFAULT clauses?
	\checkmark	Does every case statement have a default?
	\checkmark	Are loop termination conditions obvious and invariably achievable?
	\checkmark	Are indexes or subscripts properly initialized, just prior to the loop?
		Can any statements that are enclosed within loops be placed outside the loops?
		Does the code in the loop avoid manipulating the index variable or using it upon
		exit from the loop?
De	far	nzivno programiranje
	\checkmark	Are indexes, pointers, and subscripts tested against array, record, or file bounds?
	\checkmark	Are imported data and input arguments tested for validity and completeness?
	\checkmark	Are all output variables assigned?
	\checkmark	Are the correct data operated on in each statement?
	\checkmark	Is every memory allocation deallocated?
		Are timeouts or error traps used for external device accesses?
	\checkmark	Are files checked for existence before attempting to access them?
	\checkmark	Are all files and devices left in the correct state upon program termination?

Izvještaj (2) o greškama za sesiju inspekcije

Datum sesije: 16.12.2023. Izvještaj pripremio: Eman Alibalić

Naziv projekta: <u>TechHaven</u>

Dokument inspekcije: <u>Pregled dizajna</u> Verzija: <u>1</u>

Sekcije dokumenta koje su predmet inspekcije: CartController, OrdersManager i

Randomizer

Inspekcijski tim: Emir Kapić, Eman Alibalić, Zijad Lendo, Alem Muratović I Muaz Sikirić

1 Lista grešaka

#	Tip greške (ozbiljnost)	Priroda greške	Opis greške	Lokacija greške
1	2	0	Izbrisan kod bez funkcionalnosti	CartController
2	1	0	Izbrisan bespotreban kod	CartController

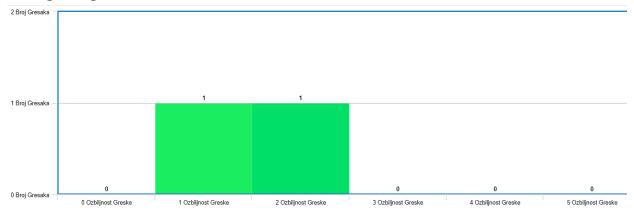
Ukupno: 30 minuta

2 Aktivnosti nakon formalnog pregleda dizajna (Follow up decisions)

A | Slijede ispravke diskusiranih dijelova

3 Komentari

*W-Wrong, M-Missing, O-Other



Lista proviere (3)

Struktura ☑ Does the code completely and correctly implement the design? ☑ Does the code conform to any pertinent coding standards? ☐ Is the code well-structured, consistent in style, and consistently formatted? ☐ Are there any uncalled or unneeded procedures or any unreachable code? ☐ Are there any leftover stubs or test routines in the code? ☑ Can any code be replaced by calls to external reusable components or library functions? ☑ Are there any blocks of repeated code that could be condensed into a single procedure? ✓ Is storage use efficient? ☑ Are symbolics used rather than "magic number" constants or string constants? ☐ Are any modules excessively complex and should be restructured or split into multiple routines? Dokumentacija ☐ Is the code clearly and adequately documented with an easy-to-maintain commenting style? ☐ Are all comments consistent with the code? Varijable ☑ Are all variables properly defined with meaningful, consistent, and clear names? ☐ Do all assigned variables have proper type consistency or casting? ☐ Are there any redundant or unused variables? Aritmetičke operacije ☑ Does the code avoid comparing floating-point numbers for equality? ☑ Does the code systematically prevent rounding errors? ☑ Does the code avoid additions and subtractions on numbers with greatly different magnitudes? Are divisors tested for zero or noise? Petlje i grananja ✓ Are all loops, branches, and logic constructs complete, correct, and properly

☐ Are the most common cases tested first in IF- -ELSEIF chains?

nested?

 □ Are all cases covered in an IFELSEIF or CASE block, including ELSE or DEFAULT clauses? ☑ Does every case statement have a default? ☑ Are loop termination conditions obvious and invariably achievable? ☑ Are indexes or subscripts properly initialized, just prior to the loop? □ Can any statements that are enclosed within loops be placed outside the loops? □ Does the code in the loop avoid manipulating the index variable or using it upon exit from the loop?
 Defanzivno programiranje ☐ Are indexes, pointers, and subscripts tested against array, record, or file bounds? ☑ Are imported data and input arguments tested for validity and completeness? ☑ Are all output variables assigned? ☑ Are the correct data operated on in each statement? ☑ Is every memory allocation deallocated? ☐ Are timeouts or error traps used for external device accesses? ☐ Are files checked for existence before attempting to access them? ☑ Are all files and devices left in the correct state upon program termination?

Izvještaj (3) o greškama za sesiju inspekcije

Datum sesije: 16.12.2023. Izvještaj pripremio: Zijad Lendo

Naziv projekta: <u>TechHaven</u>

Dokument inspekcije: <u>Pregled dizajna</u> Verzija: <u>1</u>

Sekcije dokumenta koje su predmet inspekcije: Filter, AlphabeticalStrategy i

ProductsController

Inspekcijski tim: Emir Kapić, Eman Alibalić, Zijad Lendo, Alem Muratović I Muaz Sikirić

1 Lista grešaka

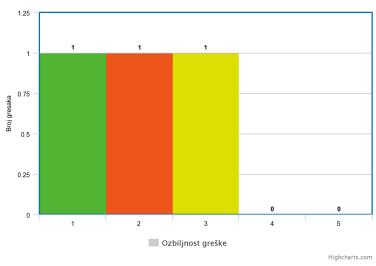
#	Tip greške (ozbiljnost)	Priroda greške	Opis greške	Lokacija greške
1	2	0	Nečitak kod	Filter
2	3	M	Nesigurno definisani atributi	Filter
3	1	0	Bespotreban kod	Filter
Ukupno: 30 minuta			pno: 30 minuta	

2 Aktivnosti nakon formalnog pregleda dizajna (Follow up decisions)

A | Slijede ispravke diskusiranih dijelova

3 Komentari

*W-Wrong, M-Missing, O-Other



Lista provjere (4)

Struktura

Struktura
☑ Does the code completely and correctly implement the design?
☑ Does the code conform to any pertinent coding standards?
☑ Is the code well-structured, consistent in style, and consistently formatted?
☐ Are there any uncalled or unneeded procedures or any unreachable code?
☐ Are there any leftover stubs or test routines in the code?
☐ Can any code be replaced by calls to external reusable components or library functions?
Are there any blocks of repeated code that could be condensed into a single procedure?
✓ Is storage use efficient?
✓ Are symbolics used rather than "magic number" constants or string constants?
☐ Are any modules excessively complex and should be restructured or split into multiple routines?
Dokumentacija
Is the code clearly and adequately documented with an easy-to-maintain commenting style?
✓ Are all comments consistent with the code?
Varijable
 ☑ Are all variables properly defined with meaningful, consistent, and clear names? ☑ Do all assigned variables have proper type consistency or casting? ☐ Are there any redundant or unused variables?
Aritmetičke operacije
☑ Does the code avoid comparing floating-point numbers for equality?
☑ Does the code systematically prevent rounding errors?
☑ Does the code avoid additions and subtractions on numbers with greatly different magnitudes?
✓ Are divisors tested for zero or noise?
Petlje i grananja
Are all loops, branches, and logic constructs complete, correct, and properly nested?

☑ Are the most common cases tested first in IF- -ELSEIF chains?

	\checkmark	Are all cases covered in an IFELSEIF or CASE block, including ELSE or
		DEFAULT clauses?
	\checkmark	Does every case statement have a default?
	\checkmark	Are loop termination conditions obvious and invariably achievable?
	\checkmark	Are indexes or subscripts properly initialized, just prior to the loop?
		Can any statements that are enclosed within loops be placed outside the loops?
	\checkmark	Does the code in the loop avoid manipulating the index variable or using it upon
		exit from the loop?
De	far	nzivno programiranje
	\checkmark	Are indexes, pointers, and subscripts tested against array, record, or file bounds?
		Are imported data and input arguments tested for validity and completeness?
	\checkmark	Are all output variables assigned?
	\checkmark	Are the correct data operated on in each statement?
	\checkmark	Is every memory allocation deallocated?
	\checkmark	Are timeouts or error traps used for external device accesses?
	\checkmark	Are files checked for existence before attempting to access them?
	\checkmark	Are all files and devices left in the correct state upon program termination?

Izvještaj (4) o greškama za sesiju inspekcije

Datum sesije: 16.12.2023. Izvještaj pripremio: Alem Muratović

Naziv projekta: <u>TechHaven</u>

Dokument inspekcije: <u>Pregled dizajna</u> Verzija: <u>1</u>

Sekcije dokumenta koje su predmet inspekcije: HomeController i

CustomerRecommendation

Inspekcijski tim: Emir Kapić, Eman Alibalić, Zijad Lendo, Alem Muratović I Muaz Sikirić

1 Lista grešaka

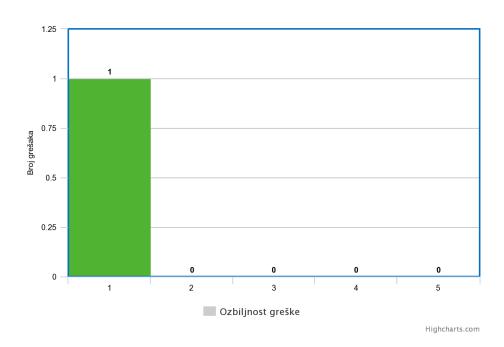
#	Tip greške (ozbiljnost)	Priroda greške	Opis greške	Lokacija greške			
1	1	0	Bespotreban kod	HomeController			
	Ukupno: 15 minuta						

2 Aktivnosti nakon formalnog pregleda dizajna (Follow up decisions)

A Slijede ispravke diskusiranih dijelova

3 Komentari

*W-Wrong, M-Missing, O-Other



Lista provjere (5)

Struktura

Does the code completely and correctly implement the design?
Does the code conform to any pertinent coding standards?
☑ Is the code well-structured, consistent in style, and consistently formatted?
☐ Are there any uncalled or unneeded procedures or any unreachable code?
☐ Are there any leftover stubs or test routines in the code?
Can any code be replaced by calls to external reusable components or library functions?
Are there any blocks of repeated code that could be condensed into a single procedure?
☑ Is storage use efficient?
Are symbolics used rather than "magic number" constants or string constants?
Are any modules excessively complex and should be restructured or split into multiple routines?
Dokumentacija
Is the code clearly and adequately documented with an easy-to-maintain commenting style?
Are all comments consistent with the code?
Varijable
 ✓ Are all variables properly defined with meaningful, consistent, and clear names? ✓ Do all assigned variables have proper type consistency or casting?
☐ Are there any redundant or unused variables?
Aritmetičke operacije
✓ Does the code avoid comparing floating-point numbers for equality?
☐ Does the code systematically prevent rounding errors?
Does the code avoid additions and subtractions on numbers with greatly different magnitudes?
☐ Are divisors tested for zero or noise?
Petlje i grananja
Are all loops, branches, and logic constructs complete, correct, and properly nested?

 Are all cases covered in an IFELSEIF or CASE block, including ELSE or DEFAULT clauses? Does every case statement have a default? Are loop termination conditions obvious and invariably achievable? Are indexes or subscripts properly initialized, just prior to the loop? Can any statements that are enclosed within loops be placed outside the loops? Does the code in the loop avoid manipulating the index variable or using it upon exit from the loop?
Defanzivno programiranje
 □ Are indexes, pointers, and subscripts tested against array, record, or file bounds? □ Are imported data and input arguments tested for validity and completeness? ☑ Are all output variables assigned? ☑ Are the correct data operated on in each statement? □ Is every memory allocation deallocated? □ Are timeouts or error traps used for external device accesses? □ Are files checked for existence before attempting to access them? ☑ Are all files and devices left in the correct state upon program termination?

Izvještaj (5) o greškama za sesiju inspekcije

Datum sesije: 16.12.2023. Izvještaj pripremio: Muaz Sikirić

Naziv projekta: TechHaven

Dokument inspekcije: <u>Pregled dizajna</u> Verzija: <u>1</u>

Sekcije dokumenta koje su predmet inspekcije: MyAccountController, CartManager i

<u>ProductManager</u>

Inspekcijski tim: Emir Kapić, Eman Alibalić, Zijad Lendo, Alem Muratović I Muaz Sikirić

1 Lista grešaka

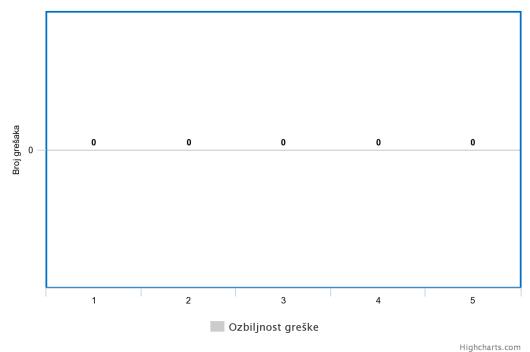
#	Tip greške (ozbiljnost)	Priroda greške	Opis greške	Lokacija greške
				Ukupno: 30 minuta

2 Aktivnosti nakon formalnog pregleda dizajna (Follow up decisions)

A Slijede ispravke diskusiranih dijelova

3 Komentari

*W-Wrong, M-Missing, O-Other



Sumarni izvještaj za sesiju inspekcije

Datum sesije: <u>16.12.2023.</u> Naziv projekta: <u>TechHaven</u>

Dokument inspekcije: <u>Detaljni dizajn</u> Verzija: <u>2</u>

Ukupno: (A) <u>5</u> stranice/linije teksta

Inspekcijski tim: Emir Kapić, Eman Alibalić, Zijad Lendo, Alem Muratović I Muaz Sikirić

Sumarno o greškama

Ozbiljnost	Prirode greške		reške	Ukupno	Faktor	Ukupno grešaka	Kamantar
greške	W	М	0	grešaka	ozbiljnosti	(standardizovano)	Komentar
5 (kritično)	0	0	0	0	16	0	1
4	0	0	0	0	8	0	1
3	0	1	0	1	4	4	1
2	0	0	2	2	2	4	1
1 (minorno)	0	0	3	3	1	3	1
Ukupno	0	1	5	(C) 6		(D) 11	

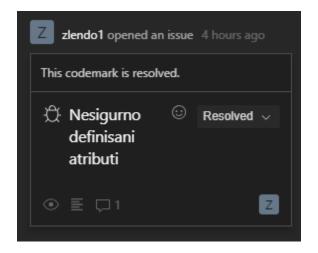
Metrike

- Prosječno grešaka po stranici = C/A = 1.2
- Prosječno grešaka po stranici (standardizovano) = D/A = 2.2
- Efikasnost detekcije grešaka (sati po greškama) = B/C = 0.347
- Efikasnost detekcije grešaka (standardizovano) = B/D = 0.189

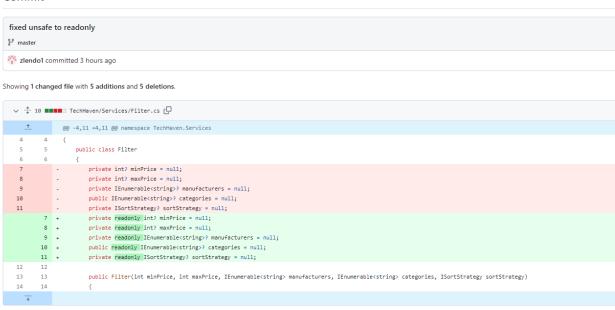
Spisak urađenih korektivnih relacija

- 1. Prolazak redom kroz kod i resolvanje prvo lakših grešaka i komentara
- Resolvanje issue-a oko grešaka veće ozbiljnosti
- 3. Provjera funkionalnosti koda
- 4. Moderator merga promjene u main

Inspekcije su rađene koristeći alat CodeStream i resolvane pushanjem commita na repozitorij:



Commit



0 comments on commit a5918c7