Opis odvijanja sesije

Dodjela uloga

Moderator dodjeljuje uloge članovima ekipe, i dijelove koda koji će oni pregledati.

Uloge i podjela koda :

- Emir Agović (moderator, recezent) – HomeController
- Amar Tahirović (recezent) – HomeController
- Ahmed Ljubunčić (recezent) – RentController
- Emin Zukić (recezent) – AdminPanelController
- Emir Bronja (recezent) – Model klase

Pronalazak grešaka

Recezenti pomoću checkliste pronalaze greške u kodu koji im je dodijeljen na pregled.

Generic Checklist for Code Reviews

Structure

- ☐ 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?

Documentation

- ☐ Is the code clearly and adequately documented with an easy-to-maintain commenting style?
- ☐ Are all comments consistent with the code?

Variables

- ☐ 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?

Arithmetic Operations

- ☐ 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?

Loops and Branches

- ☐ Are all loops, branches, and logic constructs complete, correct, and properly nested?
- ☐ Are the most common cases tested first in IF- -ELSEIF chains?
- ☐ Are all cases covered in an IF- -ELSEIF 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?

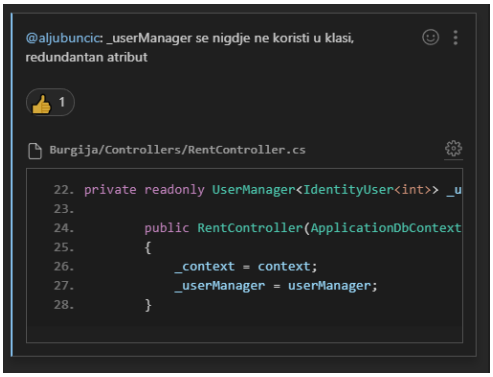
Defensive Programming

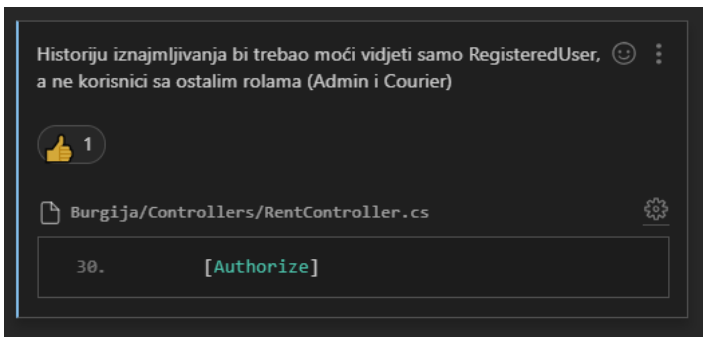
- ☐ Are indexes, pointers, and subscripts tested against array, record, or file bounds?
- ☐ Are imported data and input arguments tested for validity and completeness?
- ☐ Are all output variables assigned?
- ☐ Are the correct data operated on in each statement?
- ☐ Is every memory allocation deallocated?
- ☐ 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 are left in the correct state upon program termination?

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.

Prijava grešaka

Putem CodeStream alata dodaju issue i comment kartice koje će služiti kao uputa autoru prilikom izvršavanja korektivnih akcija.



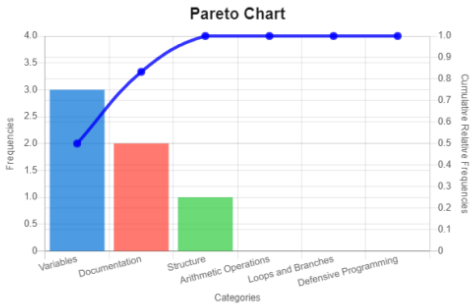


Pojedinačni izvještaji

Recezenti pomoću tabele ozbiljnosti grešaka formiraju Izvještaj 1, pojedinačni izvještaj vezan za dio koda koji je njima bio dodijeljen na početku inspekcije.

5	Variables	W	Discount id uvijek je postavljen na null vrijednost kad se kreira Rent objekat	RentController (105)	2
6	Variables	E	_userManager se nigdje ne koristi u klasi, redundantan atribu	RentController (22)	1

a	Follow-up will be carried out by: Emir Agović
b	Re-inspection is recommended: Yes



Sumirani izvještaj

Moderator sumira sve greške i izvještaje recezenata i formira Izvještaj 2 pomoću kojeg dobijemo jasniju sliku rezultata same inspekcije.

Inspection Session Summary Report

The inspection team: Emir A, Emir B, Ahmed, Amar, Emin

1 Resources invested (hours worked)

#	Team member	Overview meeting	Preparation	Inspection session	Total (hours)	Comment
1	Inspection leader Emir A.	1	2	2	5	
2	Ahmed	1	1	2	4	
3	Amar	1	1	1	3	
4	Emin	1	1	1	3	
5	Emir B.	1	1	1	3	
Total		5	6	7	18	

2 Error summary

Error severity	Total Errors	Error nature W	M	E	Severity factor	Total errors (Standardized)	Comment
5 - critical					16		
4					8		
3	11	1	10		4	44	
2	10	2	6	2	2	20	
1 - minor	1			1	1	1	
Total	22	3	16	3		65	

3 Defect detection metrics

(1) Average defects per page = **C/A = 21/13 = 1.69**

(2) Average defects per page (Standardized) = **D/A = 65/13 = 5**

(3) Defects detection efficency (hours per defect) = **B/C = 18 / 22 = 0.82**

(4) Standardized defect detection efficency (hours per standardized defect) = **B/D = 18 / 65 = 0.28**

Prepared by: Emir Agović
Date: 13.12.2023

- W = WRONG
- M = MISSING
- E = EXTRA

Korektivne akcije

Autor vrši korektivne akcije za greške otkrivene u toku inspekcije. Nakon toga, moderator potvrđuje da li su zaista izvršene korektivne akcije.