

Software Engineering 10636312

Software Project

<u>Sakancom</u>

Dr. Haya Samna

Student :

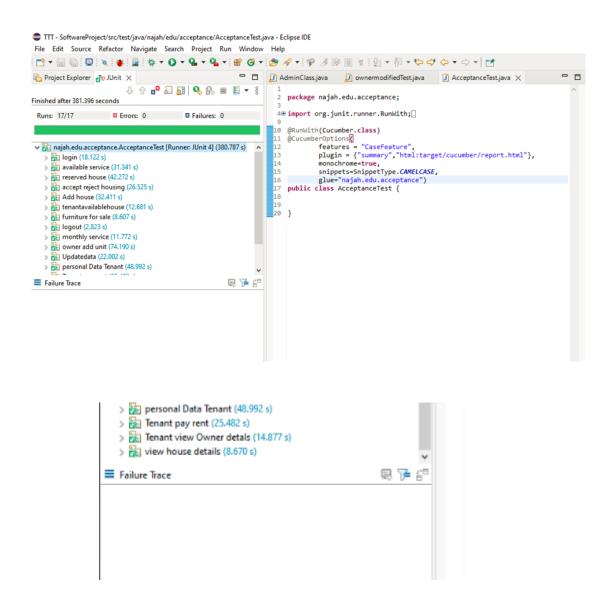
Areej Sawalha 12028958

Baraa Shelbaya 12028169

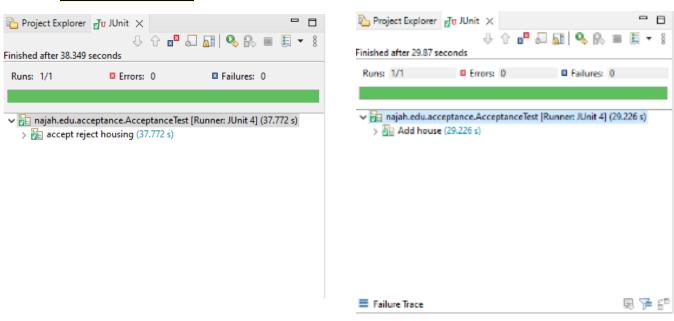
The result:

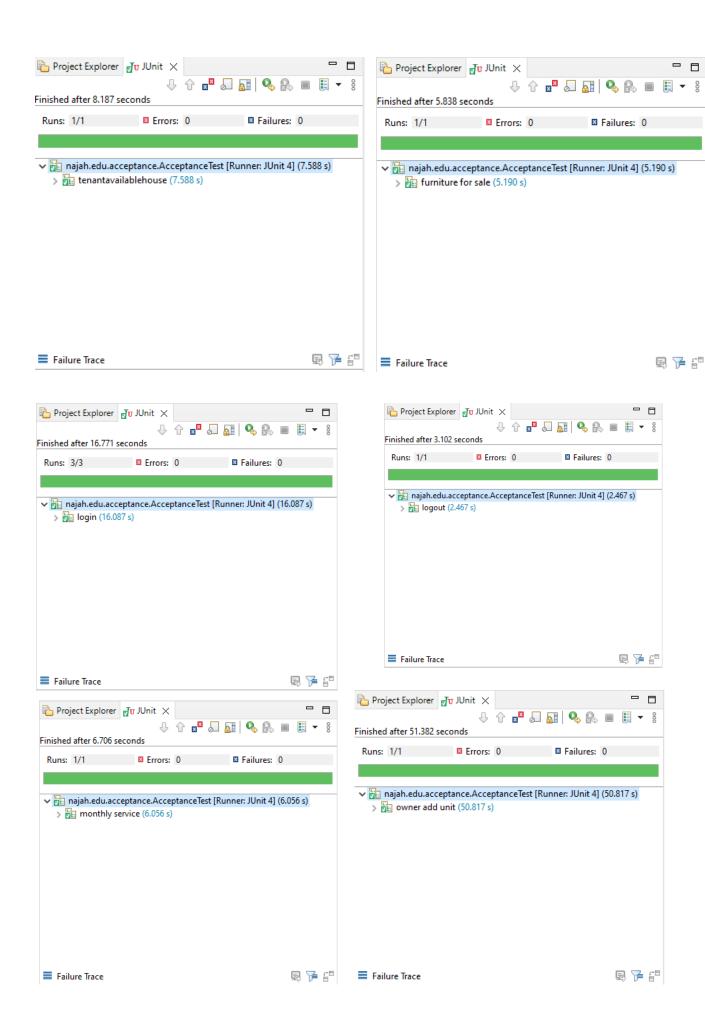
- - accept-reject-housing.feature
 - addhouse.feature
 - availablehouseTen.feature
 - furnituresale.feature
 - 🖀 Login.feature
 - 🥵 logout.feature
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 - nowneraddunit.feature
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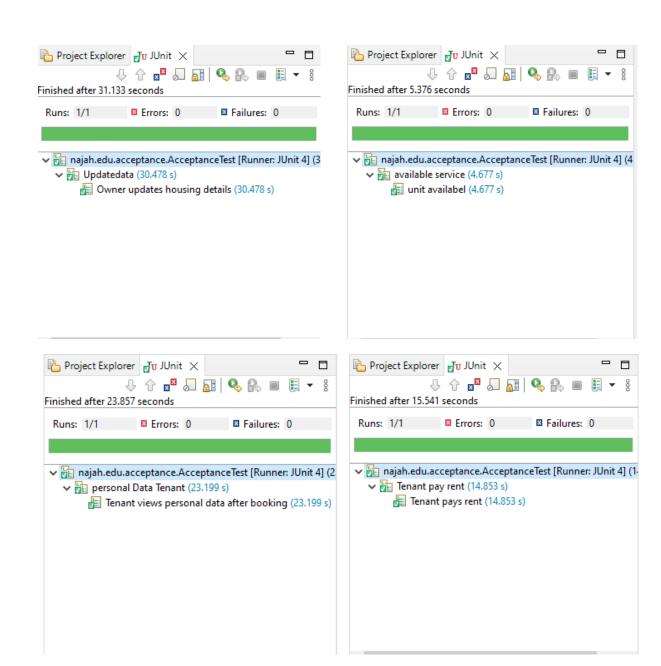
 - > 🔝 acceptrejecthousing.java
 - > AdminAddhouseTest.java
 - > 🔃 furnituresaleTest.java
 - > 🕖 LoginTest.java
 - > 🔎 logoutTest.java
 - > 🕖 monthlyrentTest.java
 - > 🕖 owneraddhouseTest.java
 - > 🕖 ownermodifiedTest.java
 - > 🔎 personaldatatenantTest.java
 - > 🔊 Serviceavailable.java
 - > 🕖 TenantpayrentTest.java
 - > 🚺 tenantviewavailablehouse.java
 - > 🔝 tenantviewownerdetalsTest.java
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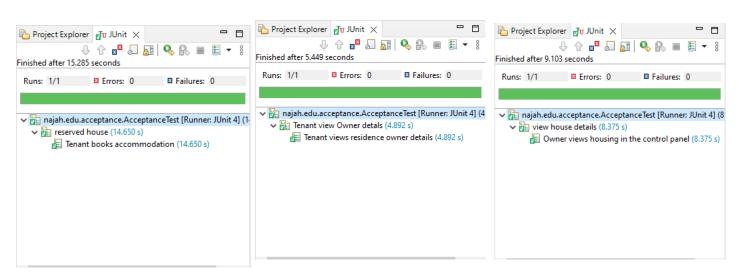


Test Feature:









In our project we made a 15 features
The system includes 3 menus:

1) Administrator:

requests for advertisement of housing and the ability to accept and reject it and add and advertise housing units through the system

2) owners:

The owner can add a house and he can also modify the house information The owner can determine the information of the house, is it available, does it contain electricity and water, determines the rent, and shows pictures of the house, and it can do many things related to the house, as it is responsible. The system that was designed is that there is a building that contains a unit inside it. The owner can determine the characteristics of the unit, the number of rooms, the price, and others. The owner has personal information to contact him in case of booking the house.

3) tenants

The tenant can see the available units he can also see the characteristics of the house that he will rent, for example, its price, the number of rooms, and so on he can book the house he wants, and the payment is done. After booking, the tenant can see the characteristics and information of the owner responsible for the unit. After booking, the tenant can see the information he booked and the data he entered. In the event that the tenant has furniture, it can be displayed in case someone wants to buy it.

The work was divided equally between us until we reached this result of the project.

Areej Sawalha:

- 1)Accept-reject-housing
- 2)login and logout
- 3) furniture's Sale
- 4)monthly rent
- 5)Service available
- 6) add house
- 7) view personal information Owner

Baraa Shelbaya:

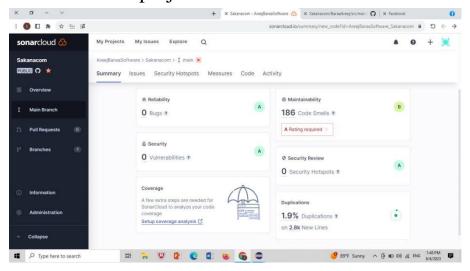
- 1)owner modified house
- 2)owner add unit in the house
- 3) view house
- 4)Tenant Reserved
- 5) view personal information Tenant
- 6) pay Rent
- 7) available house

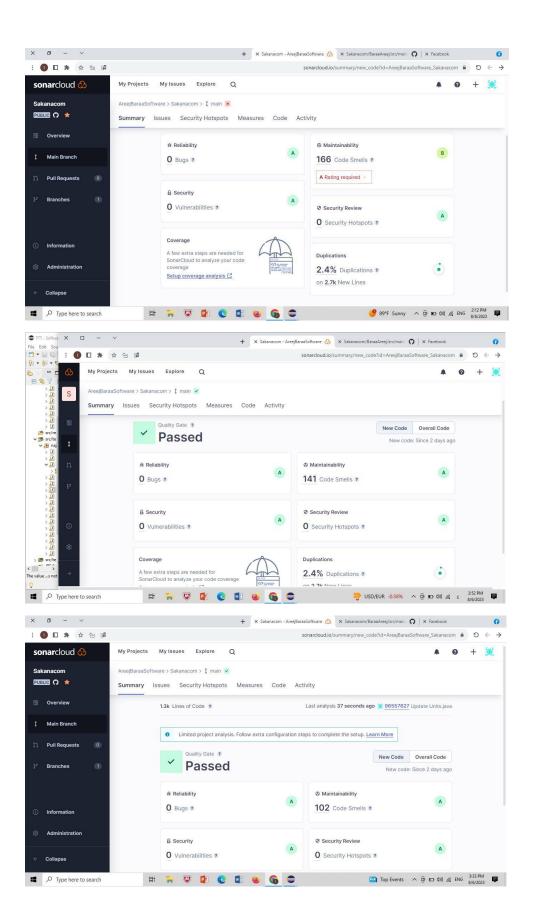
We created a brand-new organization on GitHub with the intention of moving our repository there. We have incorporated Sonar Cloud into our company to run a complete set of rules encompassing numerous elements of code, such as maintainability, dependability, and security, in order to guarantee the quality and integrity of our code. With the help of this integration, we can automatically check our code for compliance with these standards for every pull request, enhancing the overall quality and security of our codebase.

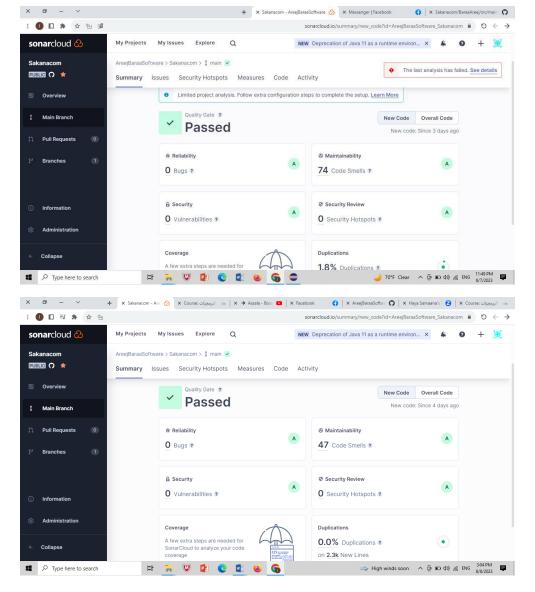
In the first analysis:



Then, in order to reduce the amount of code smells, we refactored our project.







Some example for things we refactored:

1) System.Out.println(" "); convert it to LOGGER.log(Level.INFO," ");

Result:

Duplicate in code

2)

Because the dash was repeated more than once, we solved the duplex in this way

3) Delete the comments because it gives code smells

```
// to view unit
public void viewunit() {

    for (Units Unitlist : unit ) {
        LOGGER.log(Level.INFO, "unitnumber: {0}", Unitlist.getUnitNumber()+" ");

public void viewunit() {

    for (Units Unitlist : unit ) {

        LOGGER.log(Level.INFO, "unitnumber: {0}", Unitlist.getUnitNumber()+" ");
}
```

4) Convert array list to protected or private final static (array list in public is code smell)

```
public ArrayList <TenantClass> Tenant= new ArrayList<TenantClass>();
```

```
private final static List <TenantClass> Tenant= new ArrayList<TenantClass>();
```

5) Convert type variable

```
public static String name;
public static String phone;
public static String location;

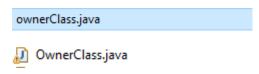
private static String name;
private static String phone;
private static String location;
```

6) Convert declaration flag

```
public static Boolean owneraddhouse;
public static Boolean flagepicture;

private static boolean owneraddhouse =false;
static boolean flagepicture=false;
```

7) Also, naming problems for classes and variables have been solved according to the rules

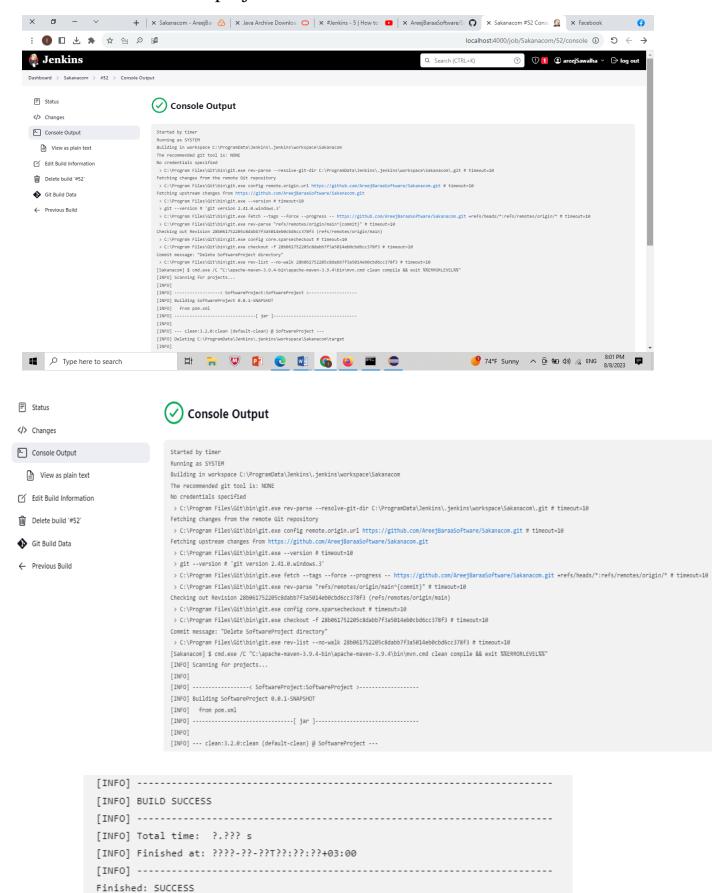


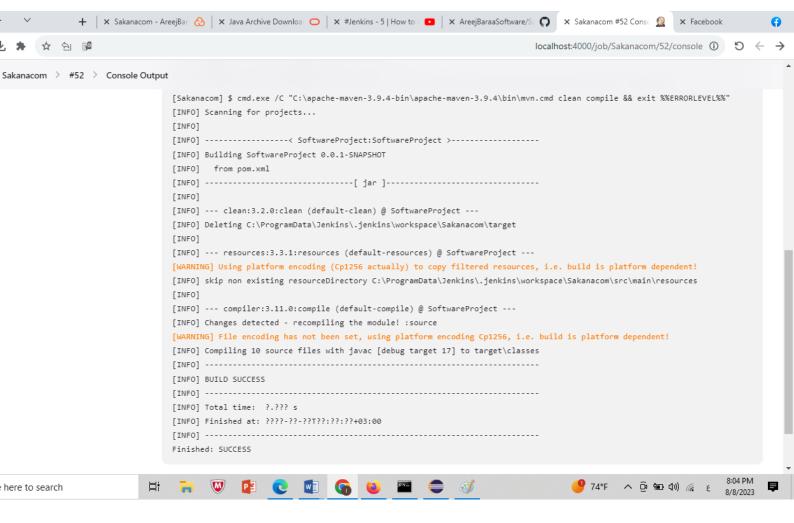
Coverage:

After we test our project from test cases, main sources the coverage of code is 91.0

nent	Co	overage	Covered Instructio	Missed Instructio	ns Total In	structions	
🛂 SoftwareProject		91.0 %	2,843	2	282	3,125	
✓ 😕 src/main/java		88.4 %	1,753	2	229	1,982	
✓ ⊕ najah.edu.acceptance		88.4 %	1,753	2	229	1,982	
> / LoginSteps.java		66.7 %	220	1	110	330	
> 🚺 Units.java	=	88.7 %	228		29	257	
> 🚺 User.java		0.0 %	0		21	21	
> Reservation.java	_	94.2 %	277		17	294	
>	•	87.7 %	107		15	122	
>		82.2 %	60		13	73	
> OwnerClass.java		78.0 %	39		11	50	
> 1 TenantClass.java		0.0 %	0		8	8	
> Main.java		96.3 %	104		4	108	
> AdminClass.java		99.9 %	718		1	719	
src/test/java		95.4 %	1,090		53	1,143	
-	_						
✓		95.4 %	1,090		53	1,143	
> D Login.java		93.0 %	66		5	71	
> acceptrejecthousing.java		95.1 %	78		4	82	
> AdminAddhouse.java		95.1 %	78		4	82	
> D Logout,java	_	93.2 %	55		4	59	
> AcceptanceTest.java		0.0 %	0		3	3	
> I Furnituresale.java		95.5 %	63		3	66	
> Monthlyrent.java		95.5 %	63		3	66	
> 🚺 Owneraddhouse.java		96.8 %	92		3	95	
> 🚺 Ownermodified.java	_	96.6 %	85		3	88	
> 🚺 Personaldatatenant.java		96.3 %	79		3	82	
> D Serviceavailable.java		95.7 %	67		3	70	
					2	78	
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When we build project in Jenkins:





GitHub link:

https://github.com/AreejBaraaSoftware/Sakanacom