



SOFTWARE ENGINEERING PROJECT COMPUTER ENGINEERING

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Instructor: Dr. Haya samaana

This project was developed by:-

1-Fadi Hamad

registration number: 12112857

2-Omar Jarbou

registration number: 12112067

3-Mohammad Esawi

registration number: 12112545

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1. STATUS OF QUALITY GATE

SONAR BEFORE ANY UPDATING

The screenshot shows the SonarCloud interface with the following details:

- Filters:** Quality Gate (Passed: 0, Failed: 1), Reliability (A-E), Security (A-F).
- Perspective:** Overall Status (Failed).
- Project Information:** SoftwareProject2024najah / Event_Planner (PUBLIC), Last analysis: 4/1/2024, 2:44 AM - 3.3k Lines of Code - Java, XML.
- Metrics:** Bugs (E 25), Vulnerabilities (A 0), Hotspots Reviewed (E 0.0%), Code Smells (A 301), Coverage (O 0.0%), Duplications (G 3.7%).
- Status Summary:** 1 of 1 shown.
- Bottom Navigation:** Terms, Pricing, Privacy, Cookie Policy, Security, Community, Documentation, Contact us, Status, About.
- Project Overview:** Event_Planner (E). Last analysis: Apr 01, 2024. 3.3k Lines of Code. Languages: Java (orange), XML (purple).
- Main Branch Status:** Failed (3 failed conditions). Details: Reliability Rating on New Code (A Rating required), 0.0% Security Hotspots Reviewed on New Code (100% required), 0.0% Coverage on New Code (80.0% required).
- Main Branch Evolution:** Since 7 days ago. Findings: 357 Findings (260 new). Findings tab selected. Metrics: Bugs (25, +21), Code Smells (301, +214), Vulnerabilities (0), Security Hotspots (31).

AllTests in Event_Planner▶ ⚡ ⚡ ⚡

CoverageAllTests in Event_Planner⋮

✓✖ ↕ ↕ ↖ ↘☰

Element ^	Class, %	Method, %	Line, %
all	95% (23/24)	86% (211/244)	78% (845/1079)
software_project.authentication	100% (3/3)	64% (11/17)	77% (34/44)
software_project.DataBase	100% (1/1)	100% (10/10)	100% (25/25)
software_project.DataBase.delete	100% (1/1)	80% (4/5)	46% (13/28)
software_project.DataBase.insert	100% (1/1)	90% (10/11)	87% (129/148)
software_project.DataBase.retrieve	100% (2/2)	72% (16/22)	61% (179/293)
software_project.DataBase.update	100% (1/1)	75% (3/4)	56% (13/23)
software_project.EventManagement	100% (4/4)	96% (61/63)	90% (110/122)
software_project.helper	83% (5/6)	73% (41/56)	82% (249/302)
software_project.UserManagement	100% (1/1)	95% (19/20)	97% (37/38)
software_project.Vendor	100% (4/4)	100% (36/36)	100% (56/56)

2. BUGS

The screenshot shows a list of four bugs, each with a checkbox, a title, status, reliability, severity, effort, and timestamp. The bugs are identical, suggesting a template or a common issue across multiple files.

checkbox	Intentionality	Make sure "ratingsCount" can't be zero before doing this division.	cert	cwe	...	+
<input type="radio"/>	Open ▾ Not assigned ▾	Reliability critical	Bug	Critical	5min effort	12 days ago
<input type="radio"/>	src/.../DataBase/retrieve/retrieve.java	Use try-with-resources or close this "Statement" in a "finally" clause.	cert	cwe	...	+
<input type="radio"/>	Open ▾ Not assigned ▾	Reliability critical	Bug	Blocker	5min effort	7 days ago
<input type="radio"/>	src/.../DataBase/retrieve/retrieve.java	Use try-with-resources or close this "Statement" in a "finally" clause.	cert	cwe	...	+
<input type="radio"/>	Open ▾ Not assigned ▾	Reliability critical	Bug	Blocker	5min effort	7 days ago
<input type="radio"/>	src/.../DataBase/retrieve/retrieve.java	Use try-with-resources or close this "Statement" in a "finally" clause.	cert	cwe	...	+
<input type="radio"/>	Open ▾ Not assigned ▾	Reliability critical	Bug	Blocker	5min effort	7 days ago

These are four bugs we have fix them

The screenshot shows a code editor with a sidebar of issues and the main area displaying Java code. A callout box highlights a specific line of code related to the bug fix.

Issues sidebar:

- 72 / 709 issues
- clause.
- Use try-with-resources or close this "PreparedStatement" in a "finally" clause.
- Make sure "ratingsCount" can't be zero before doing this division.
 - 1 execution flow
 - 1 Implies 'ratingsCount' is zero.
 - 2 Division by zero.
- Navigate locations Alt + ⌘ ⌄ ⌅
- src/.../retrieve/Retrieve.java
- Use "addBatch" and "executeBatch" to execute multiple SQL statements in a single call.

Main code area:

```
String query2 =  
    "select \"Rating\" from \"Vendor_Review\" where \"Vendor_User_Name\" = \'\" + vr  
.getVendorUserName() + \"\' ;";  
  
ResultSet rs = stmt.executeQuery(query2);  
int avgRating = 0;  
1 int ratingsCount = 0;  
while (rs.next()) {  
    avgRating += Generator.StarCounter(rs.getString("Rating"));  
    ratingsCount++;  
}  
  
2 avgRating /= ratingsCount;
```

Callout box:

Make sure "ratingsCount" can't be zero before doing this division.

Final code (partially visible):

```
String query3 = "update \"Vendor_Service\" set \"Average_Rating\" = \'\"  
+ avgRating + \"\' where \"Vendor_User_Name\" = \'\" + vr.getVendorUserName() + \"\' ;"  
stmt.executeUpdate(query3);  
  
setStatus("service confirmed to vendor successfully");
```

This bug about possible division by zero we check if rate!=0 before division

The screenshot shows a code editor interface with a sidebar on the left listing issues and the main area showing Java code with a specific line highlighted.

Issues:

- src/.../retrieve/retrieve.java: Use try-with-resources or close this "Statement" in a "finally" clause.
- src/.../AddEditDeleteEventContro...: Rename this package name to match the regular expression `^a-zA-Z+[a-zA-Z0-9]*\$`.
- src/.../EventTab...: Rename this field "EventTabs" to match the regular expression `^a-zA-Z+[a-zA-Z0-9]*\$`.
- src/.../Tab1...: Rename this field "Tab1" to match the regular expression `^a-zA-Z+[a-zA-Z0-9]*\$`.

Code Area:

```
public Places retriveplace(String place_name) throws SQLException {
    Statement stmt = null;
    Places place = new Places();
    try {
        stmt = con.createStatement();
        String query = "SELECT * FROM \"Places\" where \"Name\" = \'"
        place_name + "\'";
        ResultSet rs = stmt.executeQuery(query);
        while (rs.next())
        {
            place.setId(rs.getInt("ID"));
            place.setName(rs.getString("Name"));
            place.setCapacity(rs.getString("Capacity"));
            place.setAmenities(rs.getString("Amenities"));
        }
    } finally {
        if (stmt != null)
            stmt.close();
    }
    return place;
}
```

A callout box highlights the line `stmt = con.createStatement();` with the message: **Use try-with-resources or close this "Statement" in a "finally" clause.**

This bug about try-catch statement , we use try with resources or we close the statement in finally block

And another two bug same problem , I have 25 bugs (All of them About try-catch except one , I explained above).

3. BAD SMELLS

BAD SMELLS WE HAVE FIX

a) DUPLICATING

The screenshot shows a code review interface with two items under the 'DUPLICATING' section:

- Adaptability**:
Define a constant instead of duplicating this literal "Title" 4 times.
Open Not assigned Maintainability (critical) Code Smell Critical
10min effort • 7 days ago
- Adaptability**:
Define a constant instead of duplicating this literal "Price" 3 times.
Open Not assigned Maintainability (critical) Code Smell Critical
8min effort • 7 days ago

Here We have 2 bad smells about Duplicating

Where is the issue?	Why is this an issue?	How can I fix it?	Activity
61 s12112... ● 62 63 64 s12112... 65 s12112... ● 66 67 68 69 70	ResultSet rs3 = stmt.executeQuery(query3); while (rs3 != null && rs3.next()) { EventService es = new EventService(); es.setId(rs3.getInt("Id")); es.setTitle(rs3.getString("Title")); es.setDetails(rs3.getString("Details")); es.setEventCategory(rs3.getString("Event_Category")); es.setPrice(rs3.getString("Price")); es.setPlace(rs3.getString("Place")); es.setStartTime(rs3.getString("Start_Time"));	Define a constant instead of duplicating this literal "Title" 4 times.	

We fix it by declare a String constant = "Title" and replace 4 locations by the constant.

And we fixed any duplication same above.

b) RENAMING

The screenshot shows three separate code smell notifications from a tool like SonarQube or Checkstyle:

- src/.../java/software_project/DataBase/DB_Connection.java**
 - Consistency**: Rename this package name to match the regular expression `^[a-z_]+(\.[a-z_])[a-z0-9_]*$!`. **Maintainability** (Open, Not assigned), **Code Smell** (Code Smell, Minor). Effort: 10min effort, 1 month ago.
 - Convention** button with a plus sign.
- src/.../DataBase/delete/deleteEvent.java**
 - Consistency**: Rename this class name to match the regular expression `^[A-Z][a-zA-Z0-9]*$!`. **Maintainability** (Open, Not assigned), **Code Smell** (Code Smell, Minor). Effort: 5min effort, 13 hours ago.
 - Convention** button with a plus sign.
- Code Editor View**
 - Line 1: `1 s12112... package software_project.DataBase;` The word `DataBase` is underlined with a red wavy line. A tooltip box says: "Rename this package name to match the regular expression `^[a-z_]+(\.[a-z_])[a-z0-9_]*$!`".
 - Line 2: `2 import java.sql.Connection;`
 - Line 3: `3 import java.sql.DriverManager;`
 - Line 4: `4`
 - Line 5: `5`
 - Line 6: `6 public class DB_Connection {` The word `DB_Connection` is underlined with a red wavy line.
 - Line 7: `7`
 - Line 8: `8`

This code smell we fix it by rename the package to 'softwareproject'

```
public class DB_Connection {
```

Rename this class name to match the regular expression '^[A-Z][a-zA-Z0-9]*\$'.

```
    private String databaseName;
    private String username;
    private String password;
    private String status;
    private int port;
    private Connection con;

    public DB_Connection() {
        setPort(5432);
        setDatabaseName("Event_Planner");
        setUsername("postgres");
        setPassword("admin");
        setCon();
    }
}
```

This code smell we fix it by rename the Class to ‘DBConnection’

```
    public String getStatus() {
        return status;
    }

    public void setStatus(String status) {
        this.status = status;
    }

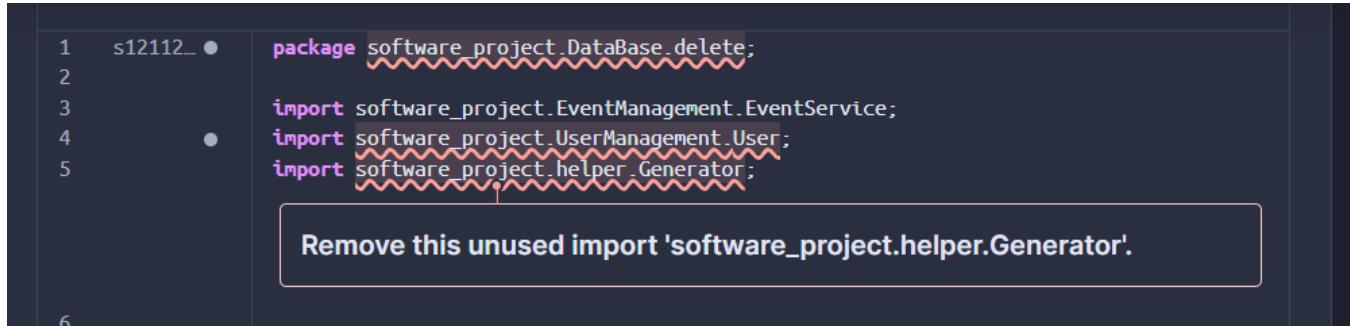
    public boolean delete_event(EventService ES) {
```

Rename this method name to match the regular expression '^([a-zA-Z][a-zA-Z0-9]*)\$'.

```
        return false;
    }
}
```

This code smell we fix it by rename the method to ‘deleteEvent’

c) Remove Unsend import

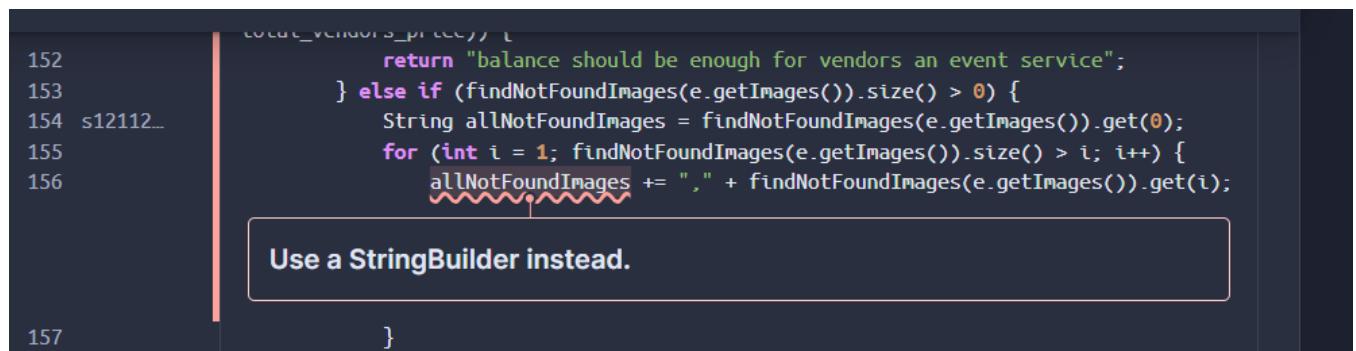


```
1 s12112... ● package software_project.Database_delete;
2
3     import software_project.EventManagement.EventService;
4     import software_project.UserManagement.User;
5     import software_project.helper.Generator;
```

Remove this unused import 'software_project.helper.Generator'.

We fix it by remove this import

d) USING A STRING BUILDER INSTEAD OS STRING



```
152         calculate_vendors_price();
153         return "balance should be enough for vendors an event service";
154     } else if (findNotFoundImages(e.getImages()).size() > 0) {
155         String allNotFoundImages = findNotFoundImages(e.getImages()).get(0);
156         for (int i = 1; findNotFoundImages(e.getImages()).size() > i; i++) {
157             allNotFoundImages += ", " + findNotFoundImages(e.getImages()).get(i);
```

Use a StringBuilder instead.

We fix this code smell by replace any string that we use for concatenation with
StringBuilder because Strings are immutable objects

e) USING A STRING BUILDER INSTEAD OS STRING

```
155      cal.set(Calendar.DAY_OF_MONTH, 1);
160
161      int startDayOfWeek = cal.get(Calendar.DAY_OF_WEEK);
162
163      int numDaysInMonth = cal.getActualMaximum(Calendar.DAY_OF_MONTH);
164
165      System.out.println(" " + getMonthName(month) + " " + year);
```

Replace this use of System.out by a logger.

We fix it by replace System.out.println with logger

f) make the field final

Where is the issue? Why is this an issue? Activity More info

```
21
22
23 s12112... import static java.lang.Math.abs;
24
25 s12112... public class Generator {
26
27 s12112...     public static DB_Connection conn = new DB_Connection();
```

Make this "public static conn" field final

```
String FROM;
SecureRandom random;
public int verificationCode;
```

Make verificationCode a static final constant or non-public and provide accessors if needed.

We fix it by make the field final, or static final

g) Delete All comments

```
    activeSessions.add(sessionId);
    //
Main.logger.log(Level.INFO, "Session created for user: {0}, Session ID: {1}", new
Object[]{username, sessionId});  
This block of commented-out lines of code should be removed.  
    return sessionId;
}
```

We fix it by delete all comments line

h) Reduce the number of continue and break in loop

```
1204
1205      while(true)
1206
1207
1208
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1210
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1221
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1223
1224
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1227
1228
1229
1230
1231
1232
1233
1234
>Show 11 more lines
1226 s12112...           updateStatus("refuse",events.get(ch1-1).getId());
1227
1228
1229
1230
1231
1232
1233
1234
}
else{
    break;
}
break;
```

We fix it by reduce the number of break and continue , or fragmentation the method to another methods

i) invoke method only conditionally

Where is the issue?	Why is this an issue?	Activity
891 s12112... 892 s12112... 893 894 s12112...	boolean cont = false; logger.info(String.format("%-15s%-25s%-40s%-15s%-15s%-20s%n", "Type", "Rating")); List<String> printedVendors = new ArrayList<>(); List<Integer> printedPrice = new ArrayList<>();	<p>Invoke method(s) only conditionally.</p>

We fix it by check if logger.info is loggable by if statement

```
for (Event e : events) {  
    if (logger.isLoggable(Level.INFO)){
```

j) Replace with TextBlock

868 869 870 871	image = chooseImagePath(); images.add(image); logger.info("Do You Want Choose Another Image ?\n" + "1- Yes\n" + "2- No");
--------------------------	---

We fix it by replace with \s (TextBlock)

k) COGNITIVE COMPLEXITY

```
130 s12112...
131 s12112...
132     public static String eventValidationTest(Event e) throws SQLException {
133         String emptyFieldsTest = emptyEventFieldsTest(e);
134
135         r = new retrieve(new DB_Connection().getCon());
136
137         if (!emptyFieldsTest.equals(validEvent))
138             return emptyFieldsTest;
139         else if (!integerValidationTest(e.getAttendeeCount())) {
140             return "Attendee count should be integer value";
141         } else if (!integerValidationTest(e.getBalance())) {
142             return "balance should be integer value";
143         }
144
145         EventService es = r.selectEventServicesOfParticularName(e
146             .getServiceTitle());
147         int total_vendors_price = 0;
148         for (int i = 0; i < e.getVendors().size(); i++) {
149             VendorService vs = r.selectVendorServiceOfParticularName(e
149             .getVendors().get(i));
150             total_vendors_price += (Integer.parseInt(vs
```

Refactor this method to reduce its Cognitive Complexity from 34 to the 15 allowed.

This code smells we fix it by extract complex conditions in a new function.

I) DEFINE AND THROW A DEDICATED EXCEPTION.

```
1302                                     EVENTS_ADD(Event),  
1303                                 }  
1304                             }  
1305                         }  
1306                     }  
1307                 }  
1308             } catch (SQLException e) {  
1309                 throw new RuntimeException(e);  
1310             }
```

Define and throw a dedicated exception instead of using a generic one.

```
1311         }  
1312     }  
1313     return events;  
1314 }  
1315  
1316 private static List<String> SelectAllStatus() {  
1317     Statement stmt = null;  
1318     List<String> statuses = new ArrayList<>();  
1319     try {  
1320         ...  
1321     } catch (SQLException e) {  
1322         throw new RuntimeException(e);  
1323     }  
1324 }
```

We solve it by define a dedicated exception because generic one have negative impact on any code trying to catch them

m) Hotspots Reviewed

The screenshot shows a Java code editor with a dark theme. The file is `src/.../java/software_project/DataBase/insert/insertData.java`. The code contains a SQL update statement:

```
247     }
248
249     avgRating /= ratingsCount;
250
251     String query3 =
252         "update \"Vendor_Service\" set \"Average_Rating\" = '" + avgRating +
253         "' where \"Vendor_User_Name\" = '" + vr.getVendorUserName() + "'";
254     stmt.executeUpdate(query3);
255
256
257     setStatus("service confirmed to vendor successfully");
258 }
```

A red squiggly underline is under the line `stmt.executeUpdate(query3);`, indicating a potential issue. A callout box with a blue border and white background contains the text: **Make sure using a dynamically formatted SQL query is safe here.**

We fix it by replace statement with preparedStatement

The screenshot shows the same Java code editor after refactoring. The dynamic SQL query has been replaced by a prepared statement:

```
try (PreparedStatement updateStatement = conn.prepareStatement("UPDATE \"Vendor_Service\" SET \"Average_Rating\" = ? WHERE \"Vendor_User_Name\" = ?")) {
    updateStatement.setInt(1, avgRating);
    updateStatement.setString(2, vr.getVendorUserName());
    updateStatement.executeUpdate();
}
```

src/.../java/software_project/ DataBase/insert/insertData.java

```
43     preparedStmt.execute();
44     setStatus("User was inserted successfully");
45     conn.commit();
46     return true;
47 } catch (Exception e) {
48     e.printStackTrace();
```

Make sure this debug feature is deactivated before delivering the code in production.

```
49     setStatus("Couldn't insert user");
50
51     return false;
52 }
53
```

Show 217 more lines

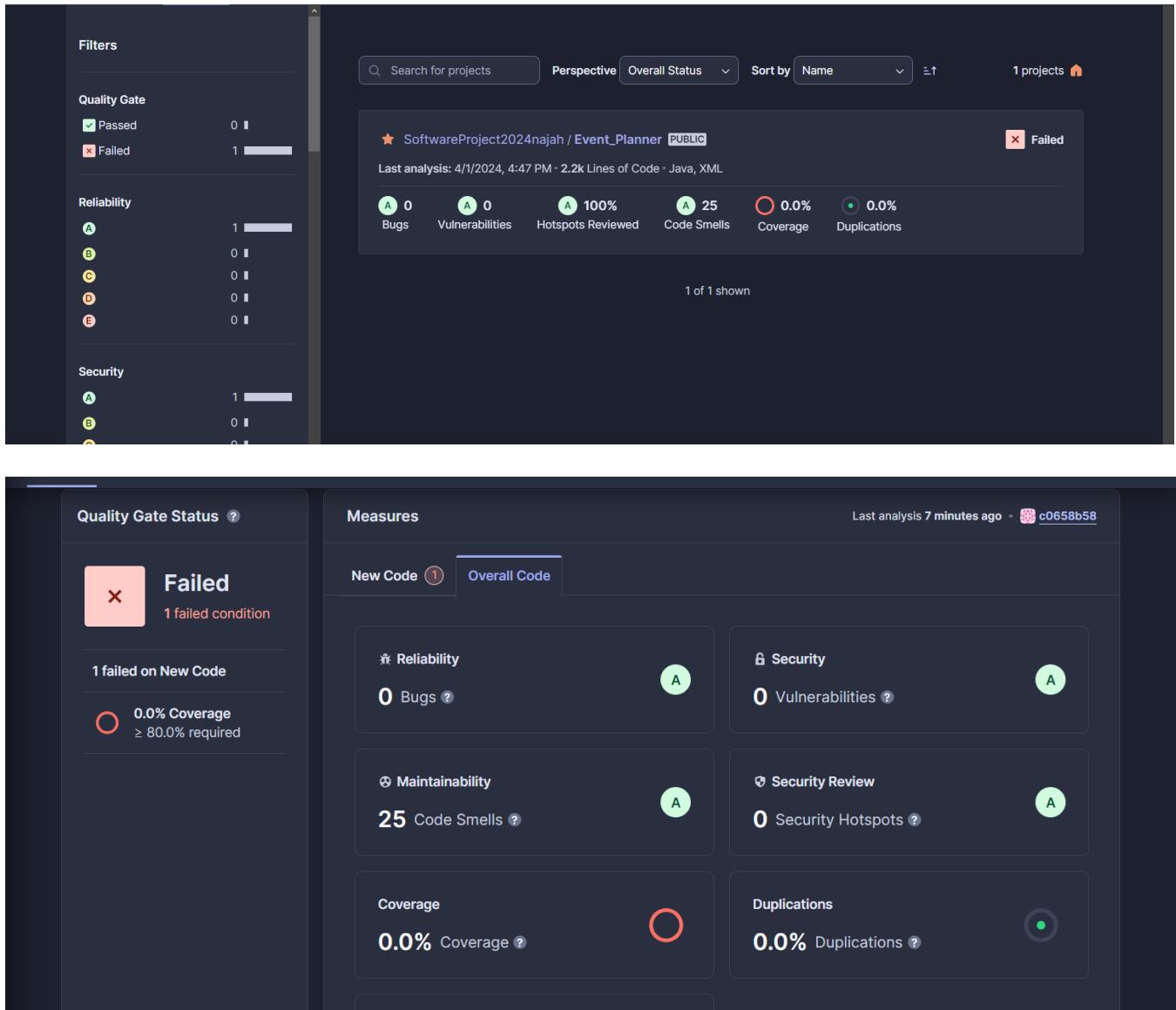
We fix it by remove 'printStackTrace' and replace it by another statement

We have many of HOTSPOTS reviewed, same problem as above and we fixed it with same method as above.

4. Sonar Analysis & Statistics

SONAR AFTER REFACTORING WITH INTELJ COVERAGE (JACOCO)

n) Without Main



o) With Main

The screenshot shows a software analysis dashboard for the project "SoftwareProject2024najah / Event_Planner" (PUBLIC). The dashboard includes a search bar, navigation tabs for "Perspective" and "Overall Status", and sorting options. A summary card displays the last analysis date (4/1/2024, 4:57 PM), code size (3.5k Lines of Code), and languages (Java, XML). Key metrics shown include 0 Bugs, 0 Vulnerabilities, 100% Hotspots Reviewed, 36 Code Smells, 0.0% Coverage, and 2.7% Duplications. The coverage metric is highlighted with a red circle.

SoftwareProject2024najah / Event_Planner PUBLIC

Last analysis: 4/1/2024, 4:57 PM • 3.5k Lines of Code • Java, XML

Bugs: 0 | Vulnerabilities: 0 | Hotspots Reviewed: 100% | Code Smells: 36 | Coverage: 0.0% | Duplications: 2.7%

Reliability
0 Bugs ?

Security
0 Vulnerabilities ?

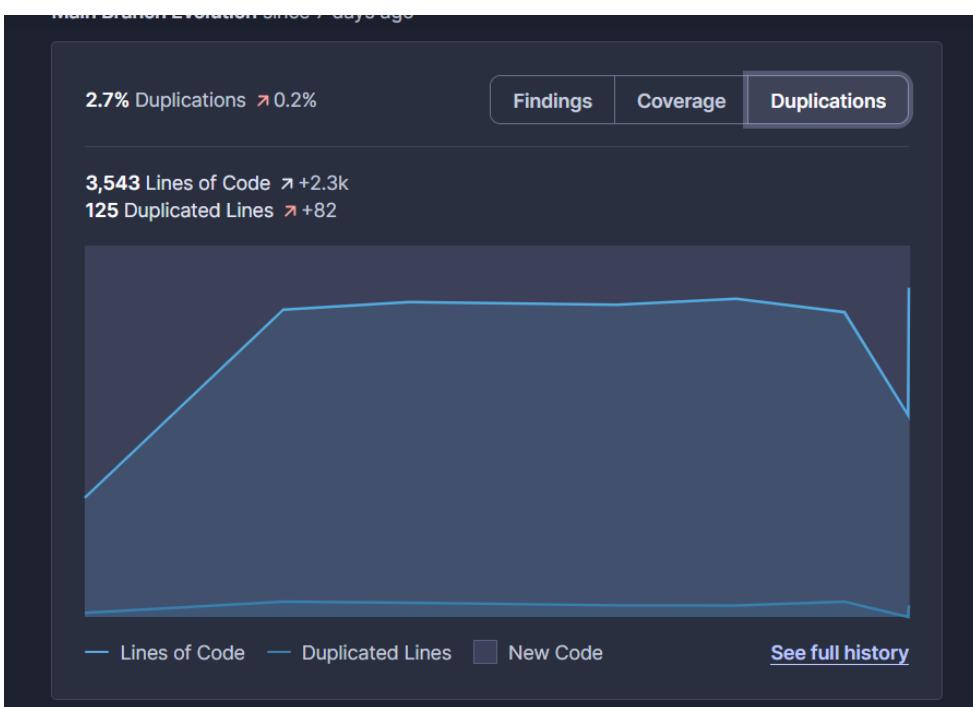
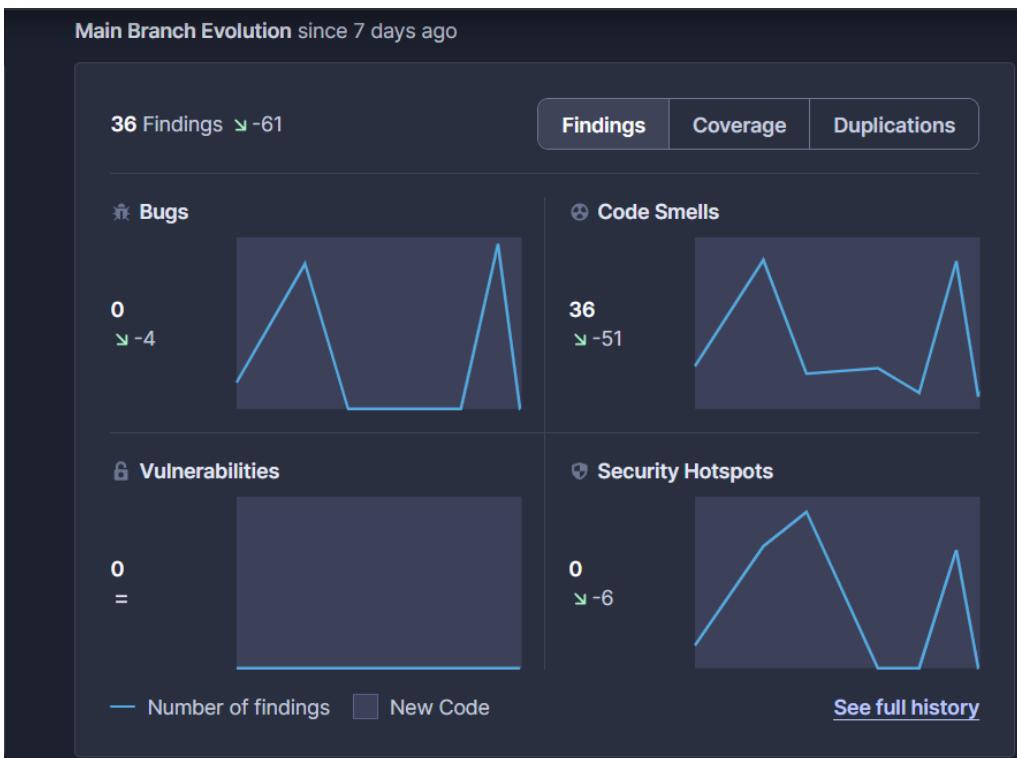
Maintainability
36 Code Smells ?

Security Review
0 Security Hotspots ?

Coverage
0.0% Coverage ?

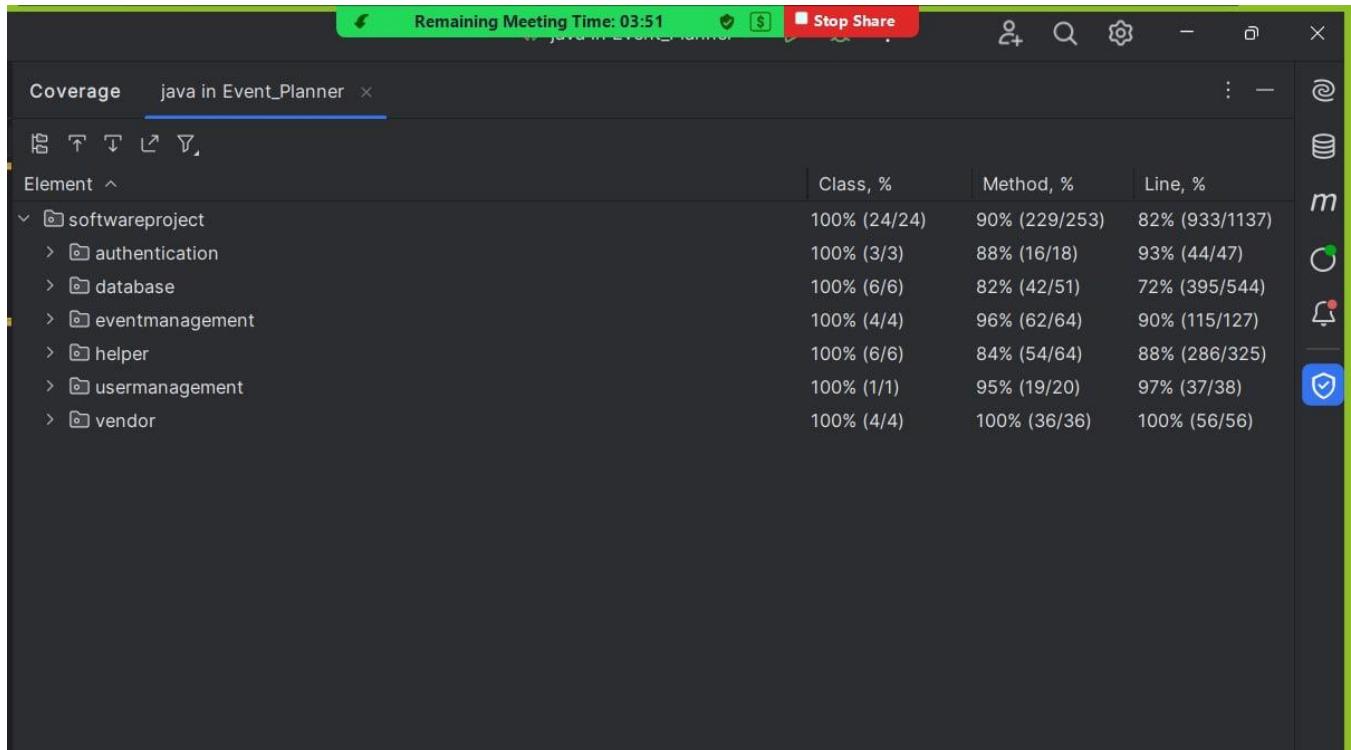
Duplications
2.7% Duplications ?

Accepted Issues
0



p) Coverage

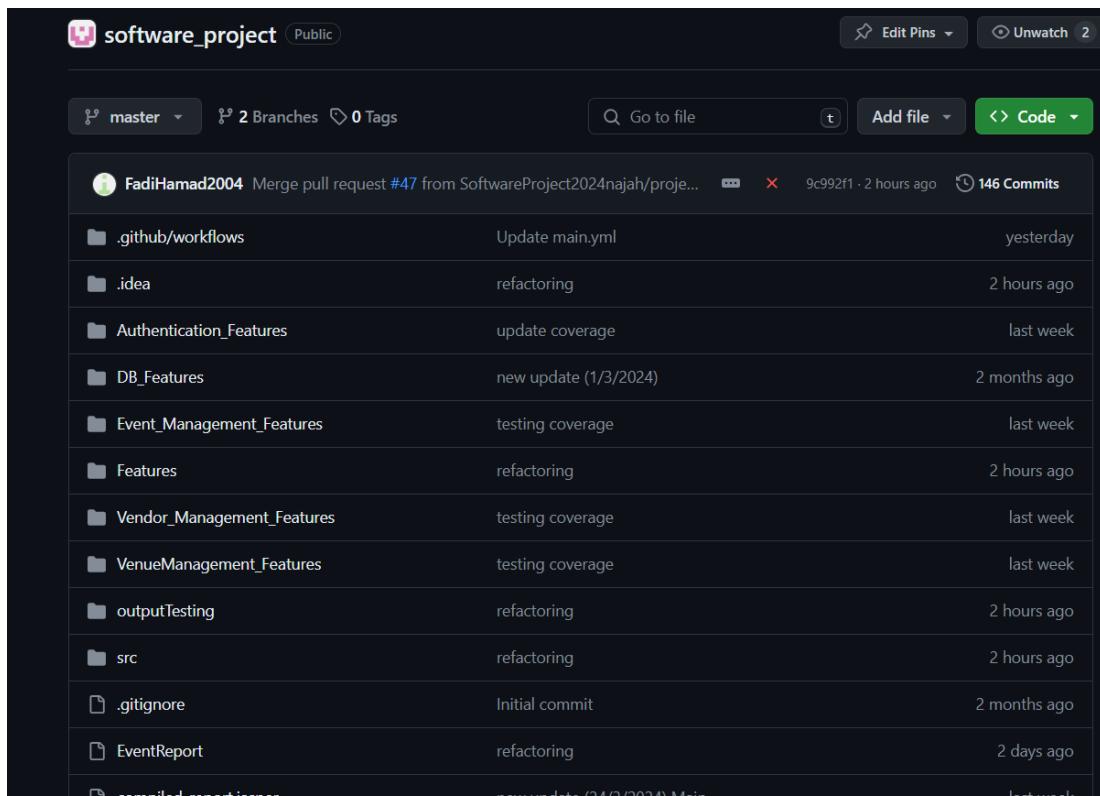
COVERAGE ON SONAR AND ON INTELLIJ IDEA



5. GIT HUB & GITHUB ACTION

q) GIT HUB

*Note: All members of the group participated in building the project, but because we have a database, all members were forced, after any modification (editing) or improvement(refactoring), to send this modification to 'CEFadiHamad' or 'FadiHamad2004' same person, for testing and then commit and push to GitHub.



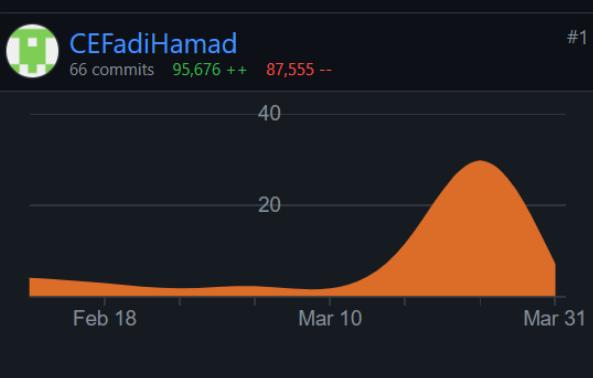
The screenshot shows a GitHub repository named "software_project" (Public). The master branch has 2 branches and 0 tags. There are 146 commits from the user "FadiHamad2004". The commits are listed below:

Commit Details	Date
.github/workflows/Update main.yml	yesterday
.idea/refactoring	2 hours ago
Authentication_Features/update coverage	last week
DB_Features/new update (1/3/2024)	2 months ago
Event_Management_Features/testing coverage	last week
Features/refactoring	2 hours ago
Vendor_Management_Features/testing coverage	last week
VenueManagement_Features/testing coverage	last week
outputTesting/refactoring	2 hours ago
src/refactoring	2 hours ago
.gitignore/Initial commit	2 months ago
EventReport/refactoring	2 days ago
compliance/compliance	last week

Feb 11, 2024 – Apr 1, 2024

Contributions: Commits ▾

Contributions to master, excluding merge commits



r) GIT HUB ACTION

The screenshot shows the GitHub Actions 'All workflows' page. It displays a list of 108 workflow runs. The runs are categorized by event (Merge pull request or refactoring), repository (SoftwareProject2024najah/projectsoft...), branch (master or projectsoftware), and status (success). Each run includes a timestamp (e.g., 2 hours ago, yesterday, 59s) and a 'More details' link.

Event	Status	Branch	Actor
Merge pull request #47 from SoftwareProject2024najah/projectsoft...	Success	master	SonarCloud #109: Commit 9c992f1 pushed by FadiHamad2004
refactoring	Success	projectsoftware	SonarCloud #108: Pull request #47 opened by FadiHamad2004
Merge pull request #46 from SoftwareProject2024najah/projectsoft...	Success	master	SonarCloud #107: Commit c0658b5 pushed by FadiHamad2004
refactoring	Success	projectsoftware	SonarCloud #106: Pull request #46 opened by FadiHamad2004
Merge pull request #45 from SoftwareProject2024najah/projectsoft...	Success	master	SonarCloud #105: Commit 25eb89b pushed by FadiHamad2004
refactoring	Success	projectsoftware	SonarCloud #104: Pull request #45 opened by FadiHamad2004

.YML FILE

```
1  name: SonarCloud
2  on:
3    push:
4      branches:
5        - master
6      pull_request:
7        types: [opened, synchronize, reopened]
8
9  jobs:
10   build:
11     name: Build and analyze
12     runs-on: ubuntu-latest
13     steps:
14       - uses: actions/checkout@v3
15       with:
16         fetch-depth: 0 # Shallow clones should be disabled for a better relevancy of analysis
17       - name: Set up JDK 17
18         uses: actions/setup-java@v3
19         with:
20           java-version: 17
21           distribution: 'zulu' # Alternative distribution options are available.
22       - name: Cache SonarCloud packages
23         uses: actions/cache@v3
24         with:
25           path: ~/.sonar/cache
26           key: ${{ runner.os }}-sonar
27           restore-keys: ${{ runner.os }}-sonar
28       - name: Cache Maven packages
29         uses: actions/cache@v3
```

```
with:
  path: ~/.m2
  key: ${{ runner.os }}-m2-${{ hashFiles('**/pom.xml') }}
  restore-keys: ${{ runner.os }}-m2
- name: Build and analyze
  env:
    GITHUB_TOKEN: ${{ secrets.GITHUB_TOKEN }} # Needed to get PR information, if any
    SONAR_TOKEN: ${{ secrets.SONAR_TOKEN }}
  run: mvn -B jacoco:prepare-agent verify jacoco:report org.sonarsource.scanner.maven:sonar-maven-plugin:sonar -Dsonar.projectKey=SoftwareProject2024na
```

s) BUILD ON GIT HUB ACTION:

The screenshot shows the GitHub Actions interface for a completed job named 'Build and analyze'. The job succeeded 2 hours ago in 1m 3s. The job history is listed as follows:

Step	Description	Duration
> ✓ Set up job		2s
> ✓ Run actions/checkout@v3		2s
> ✓ Set up JDK 17		5s
> ✓ Cache SonarCloud packages		3s
> ✓ Cache Maven packages		2s
> ✓ Build and analyze		45s
> ✓ Post Cache Maven packages		0s
> ✓ Post Cache SonarCloud packages		0s
> ✓ Post Set up JDK 17		0s
> ✓ Post Run actions/checkout@v3		0s
> ✓ Complete job		0s

```

v ✓ Set up job 2s
1 Current runner version: '2.314.1'
2 ► Operating System
6 ► Runner Image
11 ► Runner Image Provisioner
13 ► GITHUB_TOKEN Permissions
17 Secret source: Actions
18 Prepare workflow directory
19 Prepare all required actions
20 Getting action download info
21 Download action repository 'actions/checkout@v3' (SHA:f43a0e5ff2bd294095638e18286ca9a3d1956744)
22 Download action repository 'actions/setup-java@v3' (SHA:0ab4596768b603586c0de567f2430c30f5b0d2b0)
23 Download action repository 'actions/cache@v3' (SHA:e12d46a63a90f2fae62d114769bbf2a179198b5c)
24 Complete job name: Build and analyze

v ✓ Run actions/checkout@v3 2s
1 ► Run actions/checkout@v3
14 Syncing repository: SoftwareProject2024najah/software_project
15 ► Getting Git version info
19 Temporarily overriding HOME='/home/runner/work/_temp/cf463b58-2bbd-4b45-a7df-2552e7ab83a5' before making global git config changes
20 Adding repository directory to the temporary git global config as a safe directory
21 /usr/bin/git config --global --add safe.directory /home/runner/work/software_project/software_project
22 Deleting the contents of '/home/runner/work/software_project/software_project'
23 ► Initializing the repository
37 ► Disabling automatic garbage collection
39 ► Setting up auth
45 ► Fetching the repository

v ✓ Set up JDK 17 5s
1 ► Run actions/setup-java@v3
13 ► Installed distributions
30 Creating settings.xml with server-id: github
31 Writing to /home/runner/.m2/settings.xml

v ✓ Cache SonarCloud packages 3s
1 ► Run actions/cache@v3
12 Received 29360128 of 133676306 (22.0%), 28.0 MBs/sec
13 Cache Size: ~127 MB (133676306 B)
14 /usr/bin/tar -xf /home/runner/work/_temp/f01c37f4-59fc-4580-8d5c-ae7cad657c47/cache.tzst -P -C /home/runner/work/software_project/software_project --use-compress-program unzstd
15 Received 133676306 of 133676306 (100.0%), 63.7 MBs/sec
16 Cache restored successfully
17 Cache restored from key: Linux-sonar

v ✓ Cache Maven packages 2s
1 ► Run actions/cache@v3
12 Received 12582912 of 76263542 (16.5%), 12.0 MBs/sec
13 Cache Size: ~73 MB (76263542 B)
14 /usr/bin/tar -xf /home/runner/work/_temp/c044d863-fe46-4548-858d-8babef6c040b/cache.tzst -P -C /home/runner/work/software_project/software_project --use-compress-program unzstd
15 Cache restored successfully
16 Cache restored from key: Linux-m2-564e49df46071f6ca9778ef053a4d840e10348c9712d86153e418d5472cd37e1

```

```

19 [INFO]
20 [INFO] -----< software_project:Event_Planner >-----
21 [INFO] Building Event_Planner 2.0-SNAPSHOT
22 [INFO]   from pom.xml
23 [INFO] -----[ jar ]-----
24 [INFO] Downloading from central: https://repo.maven.apache.org/maven2/io/cucumber/messages/maven-metadata.xml
25 [INFO] Downloaded from central: https://repo.maven.apache.org/maven2/io/cucumber/messages/maven-metadata.xml (2.5 kB at 11 kB/s)
26 [INFO]
27 [INFO] --- jacoco-maven-plugin:0.8.11:prepare-agent (default-cli) @ Event_Planner ---
28 [INFO] argline set to -javaagent:/home/runner/.m2/repository/org/jacoco/org.jacoco.agent/0.8.11/org.jacoco.agent-0.8.11-
runtime.jar=destfile=/home/runner/work/software_project/software_project/target/jacoco.exec
29 [INFO]
30 [INFO] --- jacoco-maven-plugin:0.8.11:prepare-agent (default) @ Event_Planner ---
31 [INFO] argline set to -javaagent:/home/runner/.m2/repository/org/jacoco/org.jacoco.agent/0.8.11/org.jacoco.agent-0.8.11-
runtime.jar=destfile=/home/runner/work/software_project/software_project/target/jacoco.exec

```

```

307 [INFO] 13:57:50.300 Sensor Zero Coverage Sensor
308 [INFO] 13:57:50.300 Sensor Zero Coverage Sensor (done) | time=0ms
309 [INFO] 13:57:50.300 Sensor Java CPD Block Indexer
310 [INFO] 13:57:50.387 Sensor Java CPD Block Indexer (done) | time=87ms
311 [INFO] 13:57:50.396 SCM Publisher SCM provider for this project is: git
312 [INFO] 13:57:50.397 SCM Publisher 1 source file to be analyzed
313 [INFO] 13:57:50.642 SCM Publisher 1/1 source file have been analyzed (done) | time=245ms
314 [INFO] 13:57:50.652 CPD Executor Calculating CPD for 24 files
315 [INFO] 13:57:50.671 CPD Executor CPD calculation finished (done) | time=19ms
316 [INFO] 13:57:52.870 Analysis report generated in 2195ms, dir size=585 KB
317 [INFO] 13:57:52.984 Analysis report compressed in 114ms, zip size=198 KB
318 [INFO] 13:57:54.220 Analysis report uploaded in 1236ms
319 [INFO] 13:57:54.221 ANALYSIS SUCCESSFUL, you can find the results at: https://sonarcloud.io/dashboard?id=SoftwareProject2024najah\_software\_project&branch=master
320 [INFO] 13:57:54.221 Note that you will be able to access the updated dashboard once the server has processed the submitted analysis report
321 [INFO] 13:57:54.221 More about the report processing at https://sonarcloud.io/api/ce/task?id=Ay6Z88bn1FaVF3PgdbC7
322 [INFO] 13:57:56.140 Sensor cache published successfully
323 [INFO] 13:57:56.153 Analysis total time: 35.166 s
324 [INFO] -----
325 [INFO] BUILD SUCCESS
326 [INFO] -----
327 [INFO] Total time: 43.786 s
328 [INFO] Finished at: 2024-04-01T13:57:56Z
329 [INFO] -----

```

✓ Post Cache Maven packages 0s

- Post job cleanup.
- Cache hit occurred on the primary key Linux-m2-564e49df46071f6ca9778ef053a4d840e10348c9712d86153e418d5472cd37e1, not saving cache.

✓ Post Cache SonarCloud packages 0s

- Post job cleanup.
- Cache hit occurred on the primary key Linux-sonar, not saving cache.

✓ Post Set up JDK 17 0s

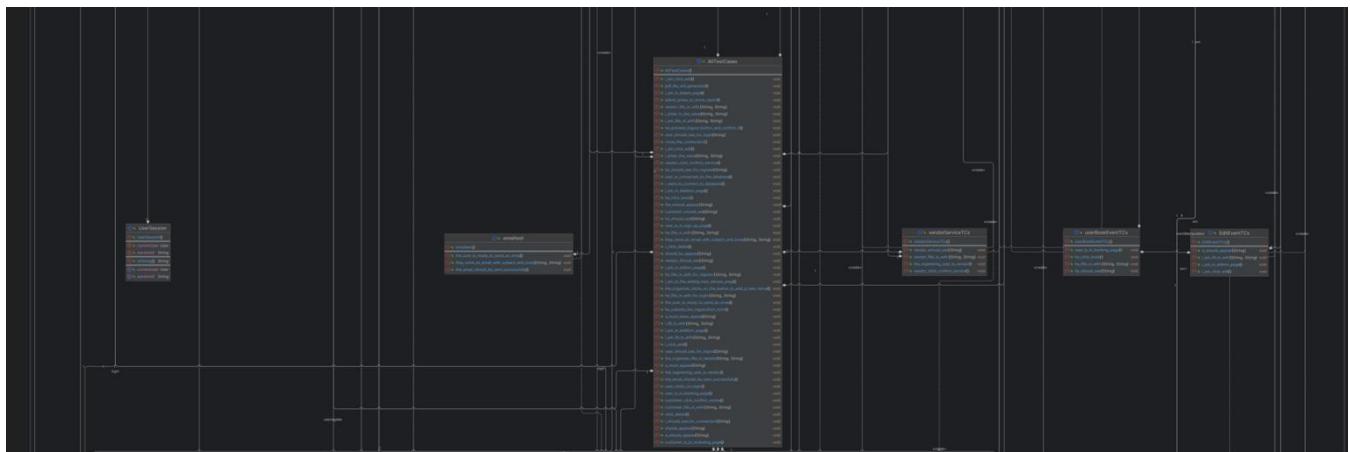
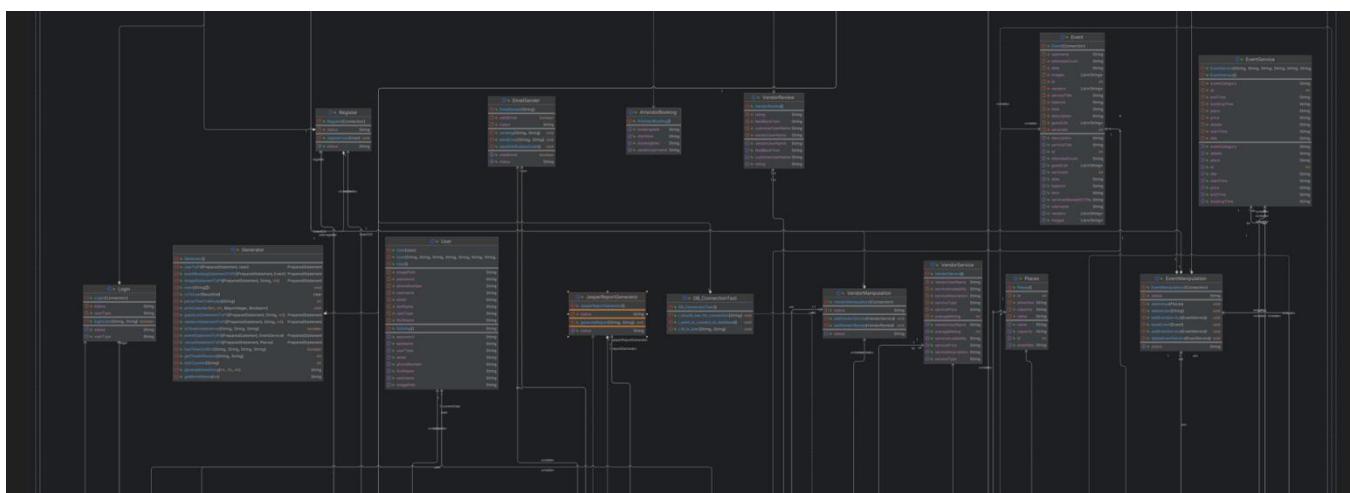
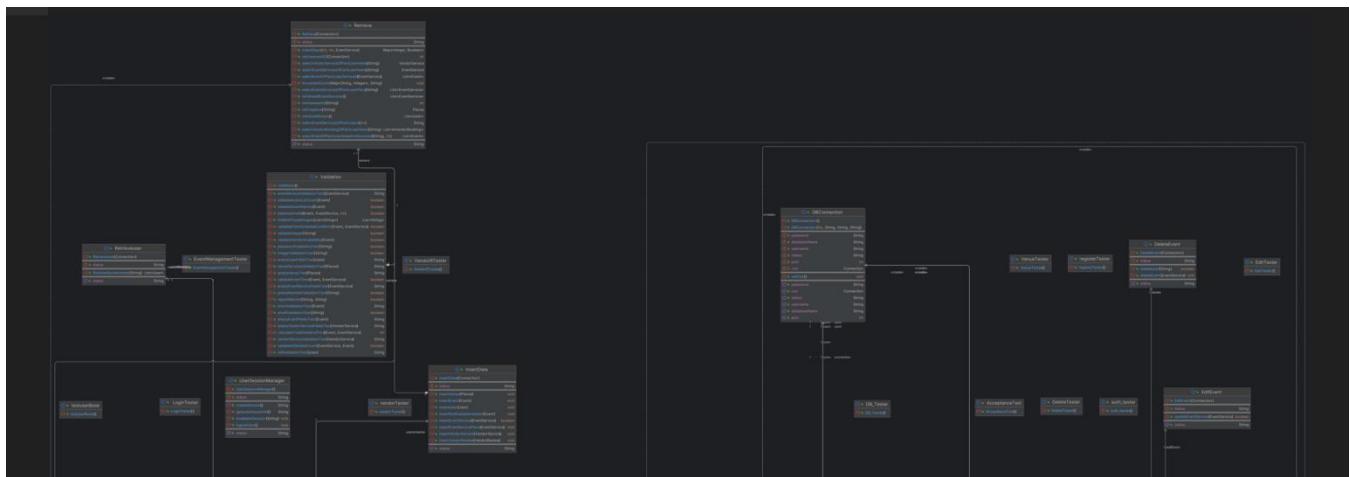
- Post job cleanup.

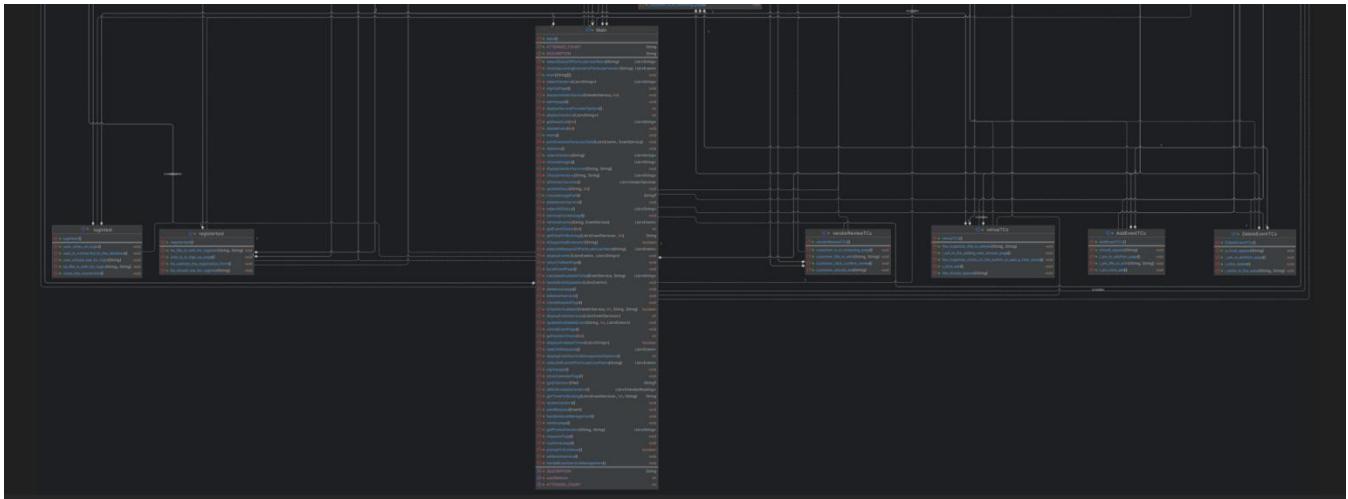
✓ Post Run actions/checkout@v3 0s

```
✓ Post Run actions/checkout@v3          0s
1 Post job cleanup.
2 /usr/bin/git version
3 git version 2.43.2
4 Temporarily overriding HOME='/home/runner/work/_temp/89fddc00-6782-46c1-9c74-71680717b287' before making global git config changes
5 Adding repository directory to the temporary git global config as a safe directory
6 /usr/bin/git config --global --add safe.directory /home/runner/work/software_project/software_project
7 /usr/bin/git config --local --name-only --get-regexp core\\.sshCommand
8 /usr/bin/git submodule foreach --recursive sh -c "git config --local --name-only --get-regexp 'core\\.sshCommand' && git config --local --unset-all 'core.sshCommand' || :"
9 /usr/bin/git config --local --name-only --get-regexp http\\.https:\\/\\/github\\.com\\/.extraheader
10 http.https://github.com/.extraheader
11 /usr/bin/git config --local --unset-all http.https://github.com/.extraheader
12 /usr/bin/git submodule foreach --recursive sh -c "git config --local --name-only --get-regexp 'http\\.https:\\/\\/github\\.com\\/.extraheader' && git config --local --unset-all 'http.https://github.com/.extraheader' || :"

✓ Complete job                          0s
1 Cleaning up orphan processes
```

6. UML Generated By INTELLIJ IDEA

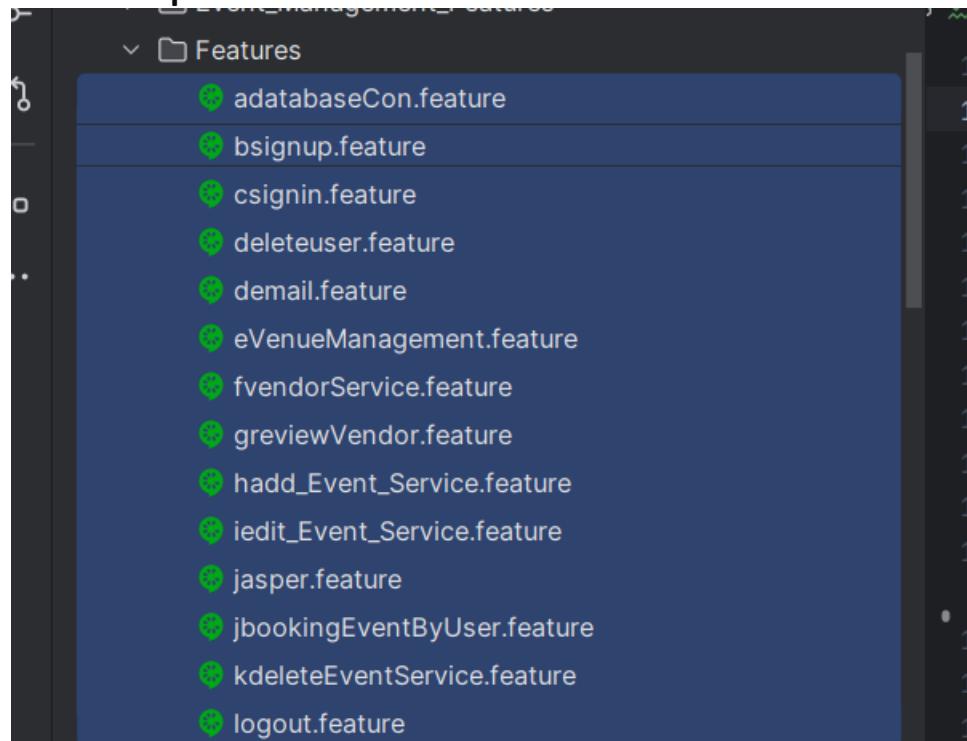




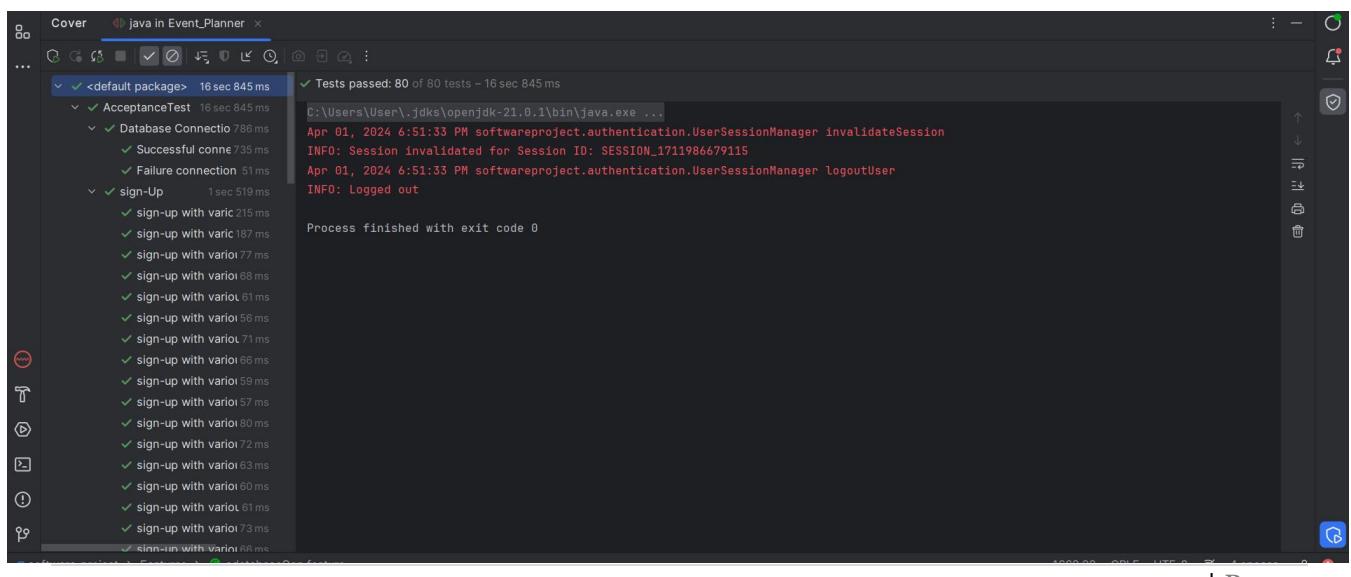
Full Image: [Click Here](#)

7. Feature Files and Test Cases

We developed 14 features from the project and these are pictures of the features we developed



Feature Files: we add letter (alphabetical order) beginning of each feature name to a guarantee executed in order.



Test pass

t) Sign Up

SIGN UP FEATURE							
Feature: sign-up							
Scenario Outline: sign-up with various inputs							
When user is in sign-up page							
And he fills in 'username' with "<Username>" for register							
And he fills in 'firstName' with "<FirstName>" for register							
And he fills in 'lastName' with "<LastName>" for register							
And he fills in 'phoneNumber' with "<PhoneNumber>" for register							
And he fills in 'password' with "<Password>" for register							
And he fills in 'email' with "<Email>" for register							
And he fills in 'userType' with "<userType>" for register							
And he submits the registration form							
Then he should see "<Message>" for register							
Examples:							
Username	FirstName	LastName	PhoneNumber	Password	Email	userType	Message
fadi28	Fadi	Hamad	0595778769	1234**Fa	fadi22@gmail.com	admin	User was registered successfully
mohammad12	Mohammad	Murad	0595478769	1234**Fa	mohammad22@gmail.com	vendor	User was registered successfully
ahmad1999	Ahmad	Hamad	0592289823	1234**Aa	Ahmad22@gmail.com	vendor	User was registered successfully
fadi18	Fadi	Hamad	059501402	1234**Aa	fadi18@gmail.com	admin	Invalid phone number
fadi12	Fadi	Hamad	059501402a	1234**Aa	fadi12@gmail.com	admin	Invalid phone number
fadi28	Fadi	Hamad	0595014020	weakPassword	fadi28@gmail.com	admin	Invalid password
fadi20	Fadi	Hamad	0595014020	1234**Aa	fadi22@gmail.com	admin	Invalid email address
fadi28	Fadi	Hamad	0595014020	1234**Aa	fadi28@gmail.com	admin	Username is already taken
	Fadi	Hamad	0595014020	1234**Aa	fadi29@gmail.com	admin	Username can't be empty
fadi19		Hamad	0595014020	1234**Aa	fadi29@gmail.com	admin	First name can't be empty
fadi19	Fadi		0595014020	1234**Aa	fadi29@gmail.com	admin	Last name can't be empty
fadi19	Fadi	Hamad		1234**Aa	fadi29@gmail.com	admin	Phone number can't be empty
fadi19	Fadi	Hamad	0595014020		fadi29@gmail.com	admin	Password can't be empty
fadi19	Fadi	Hamad	0595014020	1234**Aa		admin	Email address can't be empty
fadi28	Fadi	Hamad	0595014020	1234**Aa	fadi22@gmail.com		User type can't be empty
fadi21	Fadi	Hamad	0595014020	1234**Aa	fadi22@gmail.com	customer	User was registered successfully
fadi22	Fadi	Hamad	0595014020	1234**Aa	fadi22@gmail.com	service provider	User was registered successfully
fadi28	Fadi	Hamad	0595014020	1234**Aa	fadi22@gmail.com	none	Invalid user type
lokman12	lokman	sayed	0595014020	1234**Aa	lokman22@gmail.com	vendor	User was registered successfully

Try to sign up

```

Choose Number
1- Sign in
2- Sign up
2
*****Register Page*****
Enter UserName :
abd12
Enter FirstName :
abd
Enter LastName :
saleem
Enter PhoneNumber :
0599113164
Enter Password :
1234**Aa
Enter Email :
cefadihamad2004@gmail.com
Enter UserType :
vendor
Choose Image :

C:\Users\User\Pictures\Screenshots\Screenshot (7).png
Enter Verification Code (Send To Your Email) :
26488
Registered successfully

```

This is your verification code for Event Planner Inbox x



fadi3business@gmail.com

Your code is 53758 Please don't share this code with anyone



fadi3business@gmail.com

to me ▾

9:49 PM (0 minut

Your code is 26488

...

Reply

Forward



u) Log Out

LogOut FEATURE

Feature: Logout feature

User wants to logout from Company

Scenario: logout scenarios

When he pressed logout button and confirm it

Then user should see 'Logged out' for logout

Try to sign out

```
Enter UserName :  
abd12  
Enter Password :  
1234**Aa  
Login Successfully  
  
*****Vendor Page*****  
  
1- Show Upcoming Events  
2- Log out  
2  
*****Login Page*****  
  
Choose Number  
1- Sign in  
2- Sign up
```

v) Log In

SIGN IN FEATURE

```
@order2
Feature: Login
  Scenario Outline: login scenarios
    Given user is connected to the database
    When he fills in 'username' with '<username>' for login
    And he fills in 'password' with '<password>' for login
    And user clicks on login
    Then user should see '<message>' for login
    And close the connection

  Examples:
  | username | password | message |
  | fadi28   | 1234**Fa | Valid username and password |
  | fadi28   | 123456   | Invalid username or password |
  | fadihamad | 1234**Fa | Invalid username or password |
  |          | 12de456  | Invalid username or password |
  | fadihamad |           | Invalid username or password |
```

```
Choose Number
1- Sign in
2- Sign up
1
Enter UserName :
abd12
Enter Password :
1234**Aa
Login Successfully

*****Vendor Page*****
```

1- Show Upcoming Events
2- Log out

```
Enter UserName :  
fadi21  
Enter Password :  
1234**Aa  
Login Successfully  
  
*****Customer Page*****  
  
Choose Number  
1- Book Event  
2- Cancel Event  
3- Check Request  
4- Show Calendar  
5- Review Vendors  
6- Log out
```

```
*****Login Page*****  
  
Choose Number  
1- Sign in  
2- Sign up  
1  
Enter UserName :  
fadi28  
Enter Password :  
1234**Fa  
Login Successfully  
  
Choose Number  
1- All Users Report  
2- All Events Report  
3- All EventService Report  
4- Delete User  
5- Log Out
```

```
Choose Number  
1- Sign in  
2- Sign up  
1  
Enter UserName :  
fadi22  
Enter Password :  
1234**Aa  
Login Successfully  
  
*****ServiceProvider Page*****  
  
1- Event Service Management  
2- Venue Management  
3- Check Requests  
4- Log out
```

Sign in as vendor, admin, customer, service provider

w) Service Provider

Service Provider FEATURES:

Scenario Outline: Adding event as a service provider									
When I am in addition page									24
And I am fills in 'title' with "<Title>"									
And I am fills in 'details' with "<Details>"									
And I am fills in 'eventCategory' with "<EventCategory>"									
And I am fills in 'price' with "<Price>"									
And I am fills in 'place' with "<Place>"									
And I am fills in 'startTime' with "<StartTime>"									
And I am fills in 'endTime' with "<EndTime>"									
And I am fills in 'bookingTime' with "<BookingTime>"									
And I am click add									
Then "<Message>" should appear									
Examples:									
Title Details EventCategory Price Place StartTime EndTime BookingTime Message									
first event welcome Birthdays 3000 Paris Palace 14:00 18:00 2 Event added successfully									
enjoy Birthdays 3000 Jawhara 14:00 18:00 2 You should enter a title for the event									
new event Birthdays 3000 Jawhara 14:00 18:00 2 You should enter details for the event									
new event enjoy Birthdays 3000 Jawhara 14:00 18:00 2 You should enter an event category for the event									
new event enjoy Birthdays 3000 14:00 18:00 2 You should enter a price for the event									
new event enjoy Birthdays 3000 Jawhara 18:00 2 You should enter a place for the event									
new event enjoy Birthdays 3000 18:00 2 You should enter a start time for the event									
new event enjoy Birthdays 3000 Jawhara 14:00 2 You should enter an end time for the event									
new event enjoy Birthdays 3000 Jawhara 14:00 18:00 2 You should enter a booking time for the event									
new event enjoy Birthdays 3000 Jawhara 14:00 18:00 7:00 2 End time should be after at least BookingTime hours from start time									
new event enjoy Birthdays 3000 omar 14:00 18:00 2 Price should be integer value									
new event enjoy Birthdays 3000 Jawhara 14:00 18:00 omar Booking time should be integer value									
second event on fire Birthdays 2000 Paris Palace 10:00 16:00 2 Schedule conflicts between the time interval of the event service and the time interval of the other event services									
second event on fire Birthdays 2000 nablus 14:00 18:00 2 Event added successfully									
third event on fire Birthdays 2000 nablus 20:00 22:00 2 Event added successfully									

```
*****ServiceProvider Page*****  
1- Event Service Management  
2- Venue Management  
3- Check Requests  
4- Log out  
1  
*****Event Service Management*****  
  
1- Add EventService 2- Edit EventService3- Delete EventService  
1  
Enter Title :  
fourevent  
Enter Details :  
eidmelad  
Enter EventCategory :  
birthday  
Enter Price :  
2000  
Enter Place :  
nablus  
Enter StartTime :  
10:00  
Enter EndTime :  
16:00  
Enter BookingTime :  
2  
Schedule conflicts between the time interval of the event service and the time interval of the other event services  
Do you want to continue (yes/no)
```

```

-# Do you want to continue? (yes/no)
-# yes
-# Enter Title :
-# fourevent
-# Enter Details :
-# eidmela
-# Enter EventCategory :
-# birthday
-# Enter Price :
-# 2000
-# Enter Place :
-# nablus
-# Enter StartTime :
-# 8:00
-# Enter EndTime :
-# 12:00
-# Enter BookingTime :
-# 2
-# Event added successfully
*****ServiceProvider Page*****
1- Event Service Management
2- Venue Management
3- Check Requests
4- Log out

```

First try to add EventService, conflict will happen because it was another EventService conflict with same place, same time

	175	second event	on fire	Birthdays	2000	nablus	14:00	18:00	
--	-----	--------------	---------	-----------	------	--------	-------	-------	--

Feature: Event Creation And Management

Scenario Outline: Editing event as a service provider

```
When I am in edition page
And I am fill in 'id' with "<Id>"
And I am fill in 'title' with "<Title>"
And I am fill in 'details' with "<Details>"
And I am fill in 'eventCategory' with "<EventCategory>"
And I am fill in 'price' with "<Price>"
And I am fill in 'place' with "<Place>"
And I am fill in 'startTime' with "<StartTime>"
And I am fill in 'endTime' with "<EndTime>"
And I am fill in 'bookingTime' with "<BookingTime>"
And I am click edit
Then A "<Message>" should appear
```

Examples:

Id Title Details EventCategory Price Place StartTime EndTime BookingTime Message
3 first event welcome everyone Birthdays 3000 Paris Palace 14:00 18:00 2 Event updated successfully

```
*****
Event Service Management*****
1- Add EventService 2- Edit EventService3- Delete EventService
2
Id      Title       Details     EventCategory  Price      Place        StartTime   EndTime    BookingTime
174     first event  welcome    Birthdays     3000      Paris Palace  14:00      18:00      2
175     second event on fire    Birthdays     2000      nablus       14:00      18:00      2
176     third event  on fire    Birthdays     2000      nablus       20:00      22:00      2
177     fourevent    eidmelad   birthday     2000      nablus       8:00       12:00      2

Enter Event Id Which you want to Edit :
177
Enter Title :
foureventtt
Enter Details :
fdsf
Enter EventCategory :
birthday
Enter Price :
3000
Enter Place :
nablus
Enter StartTime :
8:00
```

```
Enter EndTime :
12:00
Enter BookingTime :
2
Event updated successfully
*****
ServiceProvider Page*****
1- Event Service Management
2- Venue Management
3- Check Requests
4- Log out
1
*****
Event Service Management*****
```

1- Add EventService 2- Edit EventService3- Delete EventService

Id Title Details EventCategory Price Place StartTime EndTime BookingTime
174 first event welcome Birthdays 3000 Paris Palace 14:00 18:00 2
175 second event on fire Birthdays 2000 nablus 14:00 18:00 2
176 third event on fire Birthdays 2000 nablus 20:00 22:00 2
177 foureventtt fdsf birthday 3000 nablus 8:00 12:00 2

```

> Feature: Delete Event Service

> Scenario Outline: Event deleting
  Given I am in deletion page
  When I enter in 'Event_ID' the value "<Event_ID>"
  And I click delete
  Then A "<Message>" must appear

  Examples:
    | Event_ID | Message |
    | 17       | Event service deleted successfully |

```

```

1- Add EventService 2- Edit EventService3- Delete EventService
3
Id          Title           Details        EventCategory   Price        Place        StartTime      EndTime      BookingTime
174         first event     welcome       Birthdays      3000        Paris Palace  14:00         18:00        2
175         second event    on fire       Birthdays      2000        nablus       14:00         18:00        2
176         third event     on fire       Birthdays      2000        nablus       20:00         22:00        2
177         foureventtt     fdsf         birthday      3000        nablus       8:00          12:00        2

Enter The Event_Id you want To Delete :
177
Event service deleted successfully

```

	Id [PK] integer	Title character varying (20)	Details character varying (50)	Event_Category character varying (20)	Price character varying (20)	Place character varying (20)	Start_Time character varying (20)	End_Time character varying (2)
1	174	first event	welcome	Birthdays	3000	Paris Palace	14:00	18:00
2	175	second event	on fire	Birthdays	2000	nablus	14:00	18:00
3	176	third event	on fire	Birthdays	2000	nablus	20:00	22:00

Feature: Venue Management

Scenario Outline: Organizer adds a new venue

```
Given I am in the adding new venues page
When the organizer clicks on the button to add a new venue
And the organizer fills in 'venue_name' details "<venue_name>"
And the organizer fills in 'capacity' details "<capacity>"
And the organizer fills in 'amenities' details "<amenities>"
Then i click add
And the "<Message>" should appear
```

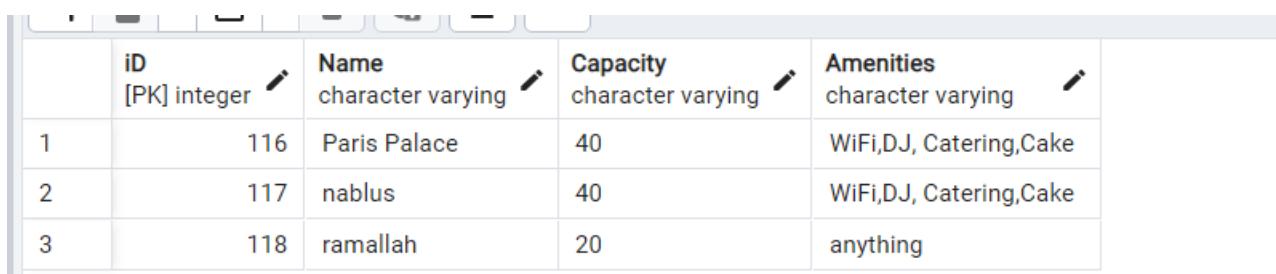
Examples:

venue_name	capacity	amenities	Message
Paris Palace	40	WiFi,DJ, Catering,Cake	Venue added successfully
nablus	40	WiFi,DJ, Catering,Cake	Venue added successfully
	150	WiFi,Cake,Catering	venue name can't be empty
gold hotel		WiFi,DJ, Catering	capacity can't be empty
community center	200		amenities can't be empty
convention center	300u	WiFi,Projector, DJ, Catering	capacity should be an integer value

*****ServiceProvider Page*****

```
1- Event Service Management
2- Venue Management
3- Check Requests
4- Log out
2
*****Venue Management*****
1- Add Venue

1
Enter Venue Name :
ramallah
Enter Capacity :
20
Enter Amenities :
anything
Venue added successfully
*****ServiceProvider Page*****
```



A screenshot of a Microsoft Access database table titled "Venue Management". The table has four columns: "iD [PK] integer", "Name character varying", "Capacity character varying", and "Amenities character varying". There are three rows of data:

iD [PK] integer	Name character varying	Capacity character varying	Amenities character varying
1	116	Paris Palace	40
2	117	nablus	40
3	118	ramallah	20

x) Vendor

Vendor FEATURES:

Feature: Vendor Service	
Scenario Outline: Define vendor service	
When the registering user is vendor	
And vendor fills in 'vendorUserName' with "<VendorUserName>"	
And vendor fills in 'serviceType' with "<ServiceType>"	
And vendor fills in 'serviceDescription' with "<ServiceDescription>"	
And vendor fills in 'servicePricePerHour' with "<ServicePricePerHour>"	
And vendor fills in 'serviceAvailability' with "<ServiceAvailability>"	
And vendor click confirm service	
Then vendor should see "<Message>"	
Examples:	
VendorUserName ServiceType ServiceDescription ServicePricePerHour ServiceAvailability Message	
mohammad12 dj excellent instruments 2500 yes service confirmed to vendor successfully	
ahmad1999 singer 5000 yes ServiceDescription cannot be empty	
ahmad1999 singer participates in over 100 party yes ServicePrice cannot be empty	
ahmad1999 participates in over 100 party 5000 yes ServiceType cannot be empty	
ahmad1999 singer participates in over 100 party hello yes ServicePrice must be numeric	
ahmad1999 dj excellent instruments 2000 yes service confirmed to vendor successfully	

Choose Number				
1- Sign in				
2- Sign up				
1				
Enter UserName :				
ahmad1999				
Enter Password :				
1234**Aa				
Login Successfully				
*****Vendor Page*****				
1- Show Upcoming Events				
2- Log out				
1				
Number	Date	Time	Description	Attendee_Count
1	19-03-2024	14:00	Birthday party invitation	15
2	19-03-2024	16:00	Birthday party invitation	15
1- Show Upcoming Events				
2- Log out				

Feature: Review Vendor

```
Scenario Outline: Customer Reviewing Vendor
  When customer is in reviewing page
  And customer fills in 'vendorUserName' with "<VendorUserName>"
  And customer fills in 'customerUserName' with "<CustomerUserName>"
  And customer fills in 'rating' with "<Rating>"
  And customer fills in 'feedBackText' with "<FeedBackText>"
  And customer click confirm review
  Then customer should see "<Message>"
```

Examples:

VendorUserName	CustomerUserName	Rating	FeedBackText	Message
mohammad12	fadi21	*****	beautiful voice	vendor review confirmed successfully
ahmad1999	fadi21	*	beautiful voice	vendor review confirmed successfully

```
Enter UserName :
fadi21
Enter Password :
1234**Aa
Login Successfully

*****Customer Page*****

Choose Number
1- Book Event
2- Cancel Event
3- Check Request
4- Show Calendar
5- Review Vendors
6- Log out
5
1: mohammad12
2: ahmad1999
Choose Vendor :
1
Enter Rating (Number Of Stars "Max =5")
3
Enter FeedBack Text :
nice
Do You Want To Review Another Vendor
1- Yes
2- No
```

y) Users

Users FEATURES:

```
Feature: Booking Event By User

Scenario Outline: Booking event as a user
  When user is in booking page
  And he fills in 'serviceTitle' with "<ServiceTitle>"
  And he fills in 'date' with "<Date>"
  And he fills in 'time' with "<Time>"
  And he fills in 'description' with "<Description>"
  And he fills in 'vendors' with "<Vendors>"
  And he fills in 'balance' with "<Balance>|"
  And he fills in 'attendeeCount' with "<AttendeeCount>|"
  And he fills in 'guestList' with "<GuestList>|"
  And he fills in 'image' with "<Image>|"
  And he fills in 'user' with "<User>|"
  And he click book
  Then he should see "<Message>|"

Examples:
| ServiceTitle | Date      | Time      | Description           | Vendors          | Balance | AttendeeCount | GuestList
| first event  | 19-03-2024 | 14:00     | Birthday party invitation | mohammad12,ahmad1999 | 20000  | 15          | Ahmad,Ali,Adnan,Amer,Basil,Divaa,Ehab,Faisal,Han
|               | 25-03-2024 | 16:00     | Birthday party invitation | mohammad12,ahmad1999 | 20000  | 10          | Ahmad,Asad,Basem,Bassam,Ehsan,Fadi,Hasan,Mousa,R
| first event  |           | 16:00     | Birthday party invitation | mohammad12,ahmad1999 | 20000  | 10          | Ahmad,Asad,Basem,Bassam,Ehsan,Fadi,Hasan,Mousa,R
| first event  | 25-03-2024 |           | Birthday party invitation | mohammad12,ahmad1999 | 20000  | 10          | Ahmad,Asad,Basem,Bassam,Ehsan,Fadi,Hasan,Mousa,R
| first event  | 25-03-2024 | 16:00     |           | mohammad12,ahmad1999 | 20000  | 10          | Ahmad,Asad,Basem,Bassam,Ehsan,Fadi,Hasan,Mousa,R
| first event  | 25-03-2024 | 16:00     | Birthday party invitation | mohammad12,ahmad1999 | 20000  | 10          | Ahmad,Asad,Basem,Bassam,Ehsan,Fadi,Hasan,Mousa,R
| first event  | 25-03-2024 | 16:00     | Birthday party invitation | mohammad12,ahmad1999 | 20000  | 10          | Ahmad,Asad,Basem,Bassam,Ehsan,Fadi,Hasan,Mousa,R
| first event  | 25-03-2024 | 16:00     | Birthday party invitation | mohammad12,ahmad1999 | 20000  | 0           | Ahmad,Asad,Basem,Bassam,Ehsan,Fadi,Hasan,Mousa,R
| first event  | 25-03-2024 | 16:00     | Birthday party invitation | mohammad12,ahmad1999 | 20000  | omar        | Ahmad,Asad,Basem,Bassam,Ehsan,Fadi,Hasan,Mousa,R
```

```
Choose Number
1- Book Event
2- Cancel Event
3- Check Request
4- Show Calendar
5- Review Vendors
6- Log out
1
Enter The Balance :
50000
Number      Title      Details      EventCategory      Price      Place      StartTime      EndTime      BookingTime
1           first event welcome      Birthdays      3000       Paris Palace  14:00      18:00      2
2           second event on fire     Birthdays      2000       nablus      14:00      18:00      2
3           third event  on fire     Birthdays      2000       nablus      20:00      22:00      2

Choose Event Service (By Enter A Number Of Service) :
3
Enter Year You Want To Book The Event :
2024
Enter Month You Want To Book The Event :
3
```

```

March 2024
Su Mo Tu We Th Fr Sa
 1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30

```

Enter Day You Want To Book The Event At:

18

There Is No Events. You Can Request To Book An Event In This Day!

Time 1: 20:00

Choose The Time You Want To Book Event At :

1

Enter Description :

anything

Enter AttendeeCount :

3

Enter Guests Names :

fadi

omar

esawi

```

Do You Want Choose Another Image ? 1- Yes 2- No
2
Number      Vendor_User_Name      Description          Price/H      Type      Rating
1           ahmad1999            excellent instruments    2000        dj
2           mohammad12           excellent instruments    2500        dj

Choose Vendor :
1
Do You Want Choose Another Vendor : 1- Yes 2- No
2
Event booked successfully
Remaining Balance is: 46000

Choose Number
1- Book Event
2- Cancel Event
3- Check Request
4- Show Calendar
5- Review Vendors
6- Log out

```

	Event_id [PK] integer	EventService_id integer	Date character varying	Time character varying	Description character varying	Attendee_Count character varying	Balance character varying (20)
1	273	174	19-03-2024	14:00	Birthday party invitation	15	20000
2	275	174	19-03-2024	16:00	Birthday party invitation	15	20000
3	277	176	18-03-2024	20:00	anything	3	50000

Book Event Successful

Inbox ×



fadi3business@gmail.com

to me ▾

You Book Event at 14:00

Enter The Balance :								
50000								
Number	Title	Details	EventCategory	Price	Place	StartTime	EndTime	BookingTime
1	first event	welcome	Birthdays	3000	Paris Palace	14:00	18:00	2
2	second event	on fire	Birthdays	2000	nablus	14:00	18:00	2
3	third event	on fire	Birthdays	2000	nablus	20:00	22:00	2

Choose Event Service (By Enter A Number Of Service) :

1

Enter Year You Want To Book The Event :

2024

Enter Month You Want To Book The Event :

3

March 2024

Su Mo Tu We Th Fr Sa

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30

Red Day: Day is Full (No more Booking)

Choose Number					
1- Book Event					
2- Cancel Event					
3- Check Request					
4- Show Calendar					
5- Review Vendors					
6- Log out					
2					
Choose The Event You Want To Cancel :					
Number	Date	Time	Description	Attendee_Count	Balance
1	19-03-2024	14:00	Birthday party invitation	15	20000
2	19-03-2024	16:00	Birthday party invitation	15	20000
3	18-03-2024	20:00	anything	3	50000
3					
Request Sent Successfully					

Request Cancel Event

```

Choose Number
1- Book Event
2- Cancel Event
3- Check Request
4- Show Calendar
5- Review Vendors
6- Log out
3
Number        Date            Time          Description           Attendee_Count Balance      Status
1             18-03-2024       20:00         anything            3                  50000     pending

Do You Want To Return To software_project.Main Page : 1- Yes2- No

```

```

Choose Number
1- Book Event
2- Cancel Event
3- Check Request
4- Show Calendar
5- Review Vendors
6- Log out
4
Choose The Event You Want To Cancel :
Number        Date            Time          Description           Attendee_Count Balance
1             19-03-2024       14:00         Birthday party invitation   15                 20000
2             19-03-2024       16:00         Birthday party invitation   15                 20000
3             18-03-2024       20:00         anything            3                  50000

Return To software_project.Main Page Enter "ok"
|_

```

Show Calendar

```

1
Enter UserName :
fadi22
Enter Password :
1234**Aa
Login Successfully

*****ServiceProvider Page*****

1- Event Service Management
2- Venue Management
3- Check Requests
4- Log out
3
*****Requests Page*****


Number        Date            Time          Description           Attendee_Count Balance      Status
1             18-03-2024       20:00         anything            3                  50000     pending

Enter Event Number You Want To Accept/Refuse it :
|_

```

Request Go to Service Provider to accept/refuse it

*****Requests Page*****						
Number	Date	Time	Description	Attendee_Count	Balance	Status
1	18-03-2024	20:00	anything	3	50000	pending
Enter Event Number You Want To Accept/Refuse it :						
1						
Status 1- Accept2- Refuse						
1						

*****Customer Page*****						
Choose Number						
1- Book Event						
2- Cancel Event						
3- Check Request						
4- Show Calendar						
5- Review Vendors						
6- Log out						
3						
Number	Date	Time	Description	Attendee_Count	Balance	Status
Do You Want To Return To software_project.Main Page : 1- Yes2- No						

*****Customer Page*****						
Choose Number						
1- Book Event						
2- Cancel Event						
3- Check Request						
4- Show Calendar						
5- Review Vendors						
6- Log out						
4						
Choose The Event You Want To Cancel :						
Number	Date	Time	Description	Attendee_Count	Balance	
1	19-03-2024	14:00	Birthday party invitation	15	20000	
2	19-03-2024	16:00	Birthday party invitation	15	20000	
Return To software_project.Main Page Enter "ok"						

The Event Deleted when Service Provider Accept it.

z) Admin Page

```
Choose Number
1- Sign in
2- Sign up
1
Enter UserName :
fadi28
Enter Password :
1234**Fa
Login Successfully

Choose Number
1- All Users Report
2- All Events Report
3- All EventService Report
4- Delete User
5- Log Out
|
```

Event Planner

Events Report

UserName	Date	Time	Description	Attendee_	Balance	Title
fadi21	19-03-2024	14:00	Birthday party	15	20000	first event
fadi21	19-03-2024	16:00	Birthday party	15	20000	first event



Event Planner

Users Report

First_Name	Last_Name	User_Name	Email	Phone	User_Type	Password
Fadi	Hamad	fadi28	fadi22@gmail.com	0595778769	admin	1234**Fa
Mohammad	Murad	mohammad12	mohammad22@gmail.com	0595478769	vendor	1234**Fa
Ahmad	Hamad	ahmad1999	Ahmad22@gmail.com	0592289823	vendor	1234**Aa
Fadi	Hamad	fadi21	fadi22@gmail.com	0595014020	customer	1234**Aa
Fadi	Hamad	fadi22	fadi22@gmail.com	0595014020	service provider	1234**Aa
abd	saleem	abd12	cefadihamad2004@gmail.com	0599113164	vendor	1234**Aa



Event Planner

Event Service Report

ID	Title	Details	Event_Cat	Price	Place	Start_Tim	End_Tim	Booking_
174	first event	welcome	Birthdays	3000	Paris Palace	14:00	18:00	2
175	second event	on fire	Birthdays	2000	nablus	14:00	18:00	2
176	third event	on fire	Birthdays	2000	nablus	20:00	22:00	2



EliteEvent Management

```

5 Choose Number
1- Sign in
2- Sign up
1
Enter UserName :
fadi28
Enter Password :
1234**Fa
Login Successfully

Choose Number
1- All Users Report
2- All Events Report
3- All EventService Report
4- Delete User
5- Log Out
4
No. | First Name      | Last Name       | Username        | User Type
-----
1   | Mohammad        | Murad           | mohammad12     | vendor
2   | Ahmad            | Hamad           | ahmad1999      | vendor
3   | Fadi             | Hamad           | fadi21          | customer
4   | Fadi             | Hamad           | fadi22          | service provider
5   | abd              | saleem          | abd12           | vendor
Select User To Delete (By Enter The Number Of Row):

No. | First Name      | Last Name       | Username        | User Type
-----
1   | Mohammad        | Murad           | mohammad12     | vendor
2   | Ahmad            | Hamad           | ahmad1999      | vendor
3   | Fadi             | Hamad           | fadi21          | customer
4   | Fadi             | Hamad           | fadi22          | service provider
5   | abd              | saleem          | abd12           | vendor
Select User To Delete (By Enter The Number Of Row):
5
User deleted successfully
Choose Number
1- All Users Report
2- All Events Report
3- All EventService Report
4- Delete User
5- Log Out
4
No. | First Name      | Last Name       | Username        | User Type
-----
1   | Mohammad        | Murad           | mohammad12     | vendor
2   | Ahmad            | Hamad           | ahmad1999      | vendor
3   | Fadi             | Hamad           | fadi21          | customer
4   | abd              | saleem          | abd12           | vendor
Select User To Delete (By Enter The Number Of Row):
|
```

aa) Other Features

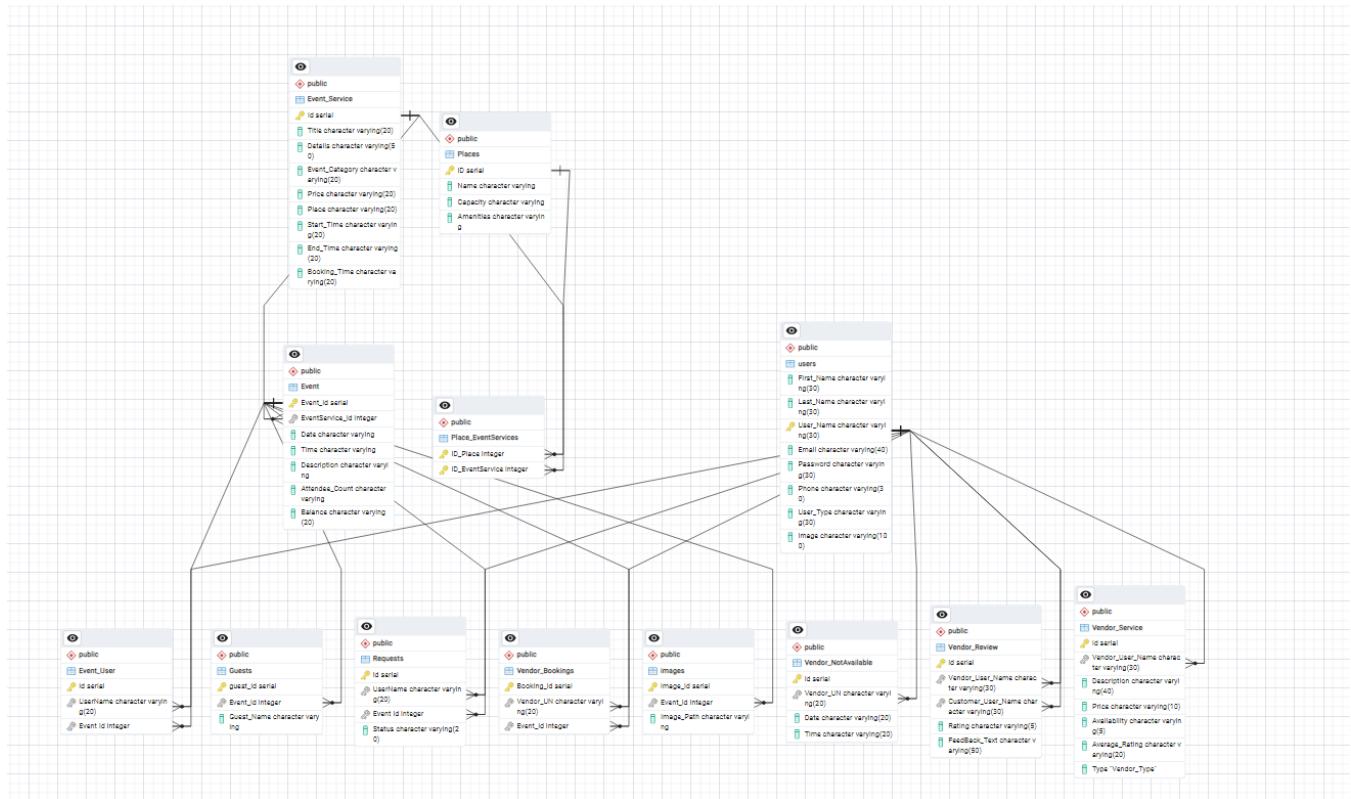
```
> Feature: Database Connection
>
>   Scenario: Successful connection
>     When I want to connect to database
>       And I fill in 'port' with '5432'
>       And I fill in 'databaseName' with 'Event_Planner'
>       And I fill in 'username' with 'postgres'
>       And I fill in 'password' with 'admin'
>       Then I should see "Connected To The Database Successfully" for connection
>
>   Scenario: Failure connection
>     When I want to connect to database
>       And I fill in 'port' with '3300'
>       And I fill in 'databaseName' with 'invalidName'
>       And I fill in 'username' with 'invalidRoot'
>       And I fill in 'password' with 'invalidPassword'
>       Then I should see "Couldn't Connect To The Database" for connection
```

```
> Feature: Send Email
>
>   Scenario: Sending an email
>     Given the user is ready to send an email
>     When they send an email with subject "Test Subject" and body "This is a test email"
>     Then the email should be sent successfully
```

```
Feature: JasperReport

  Scenario: JasperReport scenarios
    When Admin press to show Report
    Then Pdf file will generated
    And 'Successful Generated' should be appear
```

8. Database



9. Conclusion

The course was both enjoyable and beneficial, providing us with a wealth of knowledge. Our project was a direct result of what we learned, though unfortunately, due to challenging circumstances and pressures faced by our community, particularly in Gaza, we were unable to include everything we had hoped. Nonetheless, with the help of our teacher and by the grace of God, we were able to successfully compile as much information as possible. The course was informative and practical, and we hope to apply what we learned in future projects. Additionally, the course has provided us with direction for what we should focus on learning and researching in the field of software in the near future. Thank you to our amazing teacher for providing us with such a wonderful course.

رحم الله شهدائنا وشفى الله جرحانا ونصرنا على من عادانا

10. About

bb) GIT HUB LINK

Git hub link :- https://github.com/SoftwareProject2024najah/software_project

cc) FOR CLONE PROJECT

Use Git or checkout with SVN using the web URL.

https://github.com/SoftwareProject2024najah/software_project.git

Instructor: Dr. Haya samaaneh