Izvestaj o SonarQube analizi projekta

- Pronadjeno je ukupno 50 Security Hotspots (potencijalnih) slabosti
- Napomena: deo liste pod nazivom *Linija slabosti* se odnosi na mesto gde je SonarQuebe javio gresku, ne na pravo mesto!

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Lista slabosti

CSRF slabosti

• Pronadjena je jedna CSRF slabost

CSRF - Slabost 1

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/config/SecurityConfig.java

Linija/Linije slabosti: 27

```
@Override

protected void configure(HttpSecurity http) throws Exception {
   http

        .csrf().disable()
        .authorizeRequests()
        .antMatchers("/login").permitAll()
        .antMatchers("/**").authenticated()
```

```
.and()
.formLogin()
```

Ishod: True Positive

Pojasnjenje: SonarQube je detektovao ispravno slabost (csrf.disable()), ali, ukoliko smo mi *custom* implementirali CSRF zastitu, ovo moze da se zanemari

SQLi

• Pronadjeno ukupno potencijalnih 24 slabosti

SQLi - Slabost 1

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/CustomerRepository.java

Linija/Linije slabosti: 87

Deo koda:

```
public Object getRestaurant(String id) {
   String query = "SELECT r.id, r.name, r.address, rt.name FROM restaurant AS r JOIN
   restaurant_type AS rt ON r.typeId = rt.id WHERE r.id=" + id;

   try (Connection connection = dataSource.getConnection();

        Statement statement = connection.createStatement();

        ResultSet rs = statement.executeQuery(query)) {
        if (rs.next()) {
            return createRestaurant(rs);
        }
}
```

Ishod: True Positive

Pojasnjenje: U ovoj situaciji je jasno da treba iskoristiti **PreparedStatement** umesto jednostavnog konkateniranja stringa. Napadac lako moze da izvrsi SQLi napad.

SOLi - Slabost 2

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/CustomerRepository.java

Linija/Linije slabosti: 104

Deo koda:

```
public void deleteRestaurant(int id) {
    String query = "DELETE FROM restaurant WHERE id=" + id;
    try (Connection connection = dataSource.getConnection();
        Statement statement = connection.createStatement()
    ) {
        statement.executeUpdate(query);
    } catch (SQLException e) {
        e.printStackTrace();
    }
}
```

Ishod: False Positive

Pojasnjenje: Ako pogledamo argument metode *deleteReastaurant* mozemo da vidimo da je id tipa int. Znajuci to, jasno je da ne moze da dodje do injekcije nezeljenog stringa te je ovaj kod u redu.

SQLi - Slabost 3

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/CustomerRepository.java

Linija/Linije slabosti: 115

```
public void updateRestaurant(RestaurantUpdate restaurantUpdate) {
    String query = "UPDATE restaurant SET name = '" + restaurantUpdate.getName() +
    "', address='" + restaurantUpdate.getAddress() + "', typeId =" +
    restaurantUpdate.getRestaurantType() + " WHERE id =" + restaurantUpdate.getId();
    try (Connection connection = dataSource.getConnection();
        Statement statement = connection.createStatement()
    ) {
        statement.executeUpdate(query);
    } catch (SQLException e) {
```

```
e.printStackTrace();
}
```

Ishod: True Positive

Pojasnjenje: Konkateniramo stringove, neophodno je izmeniti kod tako da koristi *PreparedStatement*

SQLi - Slabost 4

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/CustomerRepository.java

Linija/Linije slabosti: 126

Deo koda:

```
public Customer getCustomer(String id) {
    String sqlQuery = "SELECT id, username, password FROM users WHERE id=" + id;
    try (Connection connection = dataSource.getConnection();
        Statement statement = connection.createStatement();
        ResultSet rs = statement.executeQuery(sqlQuery)) {
        if (rs.next()) {
            return createCustomerWithPassword(rs);
        }
}
```

Ishod: True Positive

Pojasnjenje: Konkateniramo stringove, neophodno je izmeniti kod tako da koristi *PreparedStatement*

SQLi - Slabost 5

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/CustomerRepository.java

Linija/Linije slabosti: 151

```
public void deleteCustomer(String id) {
   String query = "DELETE FROM users WHERE id=" + id;
```

Ishod: True Positive

Pojasnjenje: Konkateniramo stringove, neophodno je izmeniti kod tako da koristi *PreparedStatement*

SQLi - Slabost 6

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/CustomerRepository.java

Linija/Linije slabosti: 162

```
public void updateCustomer(CustomerUpdate customerUpdate) {
    String query = "UPDATE users SET username = '" + customerUpdate.getUsername()
+ "', password='" + customerUpdate.getPassword() + "' WHERE id =" +
    customerUpdate.getId();

    try (Connection connection = dataSource.getConnection();

        Statement statement = connection.createStatement()

) {
        statement.executeUpdate(query);
} catch (SQLException e) {
        e.printStackTrace();
}
```

Ishod: True Positive

Pojasnjenje: Konkateniramo stringove, neophodno je izmeniti kod tako da koristi PreparedStatement

SQLi - Slabost 7

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/CustomerRepository.java

Linija/Linije slabosti: 172

Deo koda:

```
public List<Address> getAddresses(String id) {
   String sqlQuery = "SELECT id, name FROM address WHERE userId=" + id;
   List<Address> addresses = new ArrayList<Address>();
   try (Connection connection = dataSource.getConnection();
        Statement statement = connection.createStatement();
        ResultSet rs = statement.executeQuery(sqlQuery)) {
        while (rs.next()) {
            addresses.add(createAddress(rs));
        }
}
```

Ishod: True positive

Pojasnjenje: Konkateniramo stringove, neophodno je izmeniti kod tako da koristi *PreparedStatement*

SOLi - Slabost 8

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/CustomerRepository.java

Linija/Linije slabosti: 196

```
public void deleteCustomerAddress(int id) {
   String query = "DELETE FROM address WHERE id=" + id;
   try (Connection connection = dataSource.getConnection();
        Statement statement = connection.createStatement()
```

```
) {
    statement.executeUpdate(query);
} catch (SQLException e) {
    e.printStackTrace();
}
```

Ishod: False Positive

Pojasnjenje: Vrsi se konkateniranje String i int, u ovom slucaju ne moze da dodje do SQLi jer int ne moze da sadrzi nizove karaktera koji bi bili maliciozne prirode

SQLi - Slabost 9

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/CustomerRepository.java

Linija/Linije slabosti: 207

Deo koda:

```
public void updateCustomerAddress(Address address) {
    String query = "UPDATE address SET name = '" + address.getName() + "' WHERE id
    =" + address.getId();
    try (Connection connection = dataSource.getConnection();
        Statement statement = connection.createStatement()
    ) {
        statement.executeUpdate(query);
    } catch (SQLException e) {
        e.printStackTrace();
    }
}
```

Ishod: True Positive

Pojasnjenje: Konkateniraju se stringovi, konkretno je address.GetName() string dok address.GetId moze da bude i int. Neophodno je koriscenje *PreparedStatement*

SOLi - Slabost 10

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/CustomerRepository.java

Linija/Linije slabosti: 218

Deo koda:

```
public void putCustomerAddress(NewAddress newAddress) {
    String query = "INSERT INTO address (name, userId) VALUES
('"+newAddress.getName()+"' , "+newAddress.getUserId()+")";

    try (Connection connection = dataSource.getConnection();

    Statement statement = connection.createStatement()

) {
    statement.executeUpdate(query);
} catch (SQLException e) {
    e.printStackTrace();
}

}
```

Ishod: True Positive

Pojasnjenje: Konkateniranje stringova, neophodno koriscenje *PreparedStatement*

SQLi - Slabost 11

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/DeliveryRepository.java

Linija/Linije slabosti: 56

```
public ViewableDelivery getDelivery(String id) {
    String sqlQuery = "SELECT d.id, d.isDone, d.date, d.comment, u.username,
    r.name, rt.name, a.name FROM delivery AS d JOIN users AS u ON d.userId = u.id JOIN
    restaurant as r ON d.restaurantId = r.id JOIN address AS a ON d.addressId = a.id
```

```
JOIN restaurant_type AS rt ON r.typeId= rt.id WHERE d.id = " + id;

try (Connection connection = dataSource.getConnection();

Statement statement = connection.createStatement();

ResultSet rs = statement.executeQuery(sqlQuery)) {

if (rs.next()) {

return createDelivery(rs);
}
```

Ishod: True Positive

Pojasnjenje: Konkateniranje stringova, neophodno koriscenje PreparedStatement

SQLi - Slabost 12

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/DeliveryRepository.java

Linija/Linije slabosti: 74

Deo koda:

```
List<DeliveryDetail> details = new ArrayList<>();

String sqlQuery = "SELECT di.id, di.amount, f.name, f.price FROM delivery_item AS di JOIN food AS f ON di.foodId = f.id WHERE deliveryId = " + id;

try (Connection connection = dataSource.getConnection();

Statement statement = connection.createStatement();

ResultSet rs = statement.executeQuery(sqlQuery)) {

while (rs.next()) {

details.add(createDetail(rs));

}
```

Ishod: True Positive

Pojasnjenje: Konkateniranje stringova, neophodno koriscenje PreparedStatement

SQLi - Slabost 13

Fail: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/DeliveryRepository.java

Linija/Linije slabosti: 117

Deo koda:

Ishod: True Positive

Pojasnjenje: Radi se konkateniranje stringova (searchQuery). Treba PreparedStatement

SOLi - Slabost 14

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/HashedUserRepository.java

Linija/Linije slabosti: 27

```
public HashedUser findUser(String username) {
    String sqlQuery = "select passwordHash, salt, totpKey from hashedUsers where
    username = '" + username + "'";

    try (Connection connection = dataSource.getConnection();

        Statement statement = connection.createStatement();

        ResultSet rs = statement.executeQuery(sqlQuery)) {
```

```
if (rs.next()) {
    String passwordHash = rs.getString(1);
    String salt = rs.getString(2);
    String totpKey = rs.getString(3);
    return new HashedUser(username, passwordHash, salt, totpKey);
```

Ishod: True Positive

Pojasnjenje: Radi se konkateniranje stringova, treba koristiti PreparedStatement

SQLi - Slabost 15

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/OrderRepository.java

Linija/Linije slabosti: 30

Deo koda:

```
public List<Food> getMenu(int id) {
   List<Food> menu = new ArrayList<>();

String sqlQuery = "SELECT id, name FROM food WHERE restaurantId=" + id;

try (Connection connection = dataSource.getConnection();

   Statement statement = connection.createStatement();

   ResultSet rs = statement.executeQuery(sqlQuery)) {

   while (rs.next()) {

       menu.add(createFood(rs));

   }

} catch (SQLException e) {
```

Ishod: False Positive

Pojasnjenje: Vrsi se konkateniranje String i int, int nema mogucnost da prenosi nizove karaktera sa malicioznim kodom

SQLi - Slabost 16

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/OrderRepository.java

Linija/Linije slabosti: 56

Deo koda:

```
"values (FALSE, " + userId + ", " + newOrder.getRestaurantId() + ", " +
newOrder.getAddress() + "," +

"'" + date.getYear() + "-" + date.getMonthValue() + "-" +
date.getDayOfMonth() + "', '" + newOrder.getComment() + "')";

try {
    Connection connection = dataSource.getConnection();
    Statement statement = connection.createStatement();
    statement.executeUpdate(sqlQuery);
    sqlQuery = "SELECT MAX(id) FROM delivery";

    ResultSet rs = statement.executeQuery(sqlQuery);
    if (rs.next()) {
```

Ishod: True Positive

Pojasnjenje: Konkateniramo stringove (getComment i getAddress, ako pretpostavimo da su ostali int), treba koristiti *PreparedStatement*

SQLi - Slabost 17

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/OrderRepository.java

Linija/Linije slabosti: 59

```
Connection connection = dataSource.getConnection();
Statement statement = connection.createStatement();
statement.executeUpdate(sqlQuery);
sqlQuery = "SELECT MAX(id) FROM delivery";
ResultSet rs = statement.executeQuery(sqlQuery);
if (rs.next()) {
```

```
int deliveryId = rs.getInt(1);
sqlQuery = "INSERT INTO delivery_item (amount, foodId, deliveryId)" +
```

Ishod: False Positive

Pojasnjenje: Ovde se radi obican SQL upit bez parametara

SQLi - Slabost 18

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/OrderRepository.java

Linija/Linije slabosti: 76

Deo koda:

Ishod: False Positive

Pojasnjenje: Radi se konkatenacija sa stringovima. FoodItem se sastoji od intova, deliveryId je iz baze selektovan i tipa je int.

SQLi - Slabost 19

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/OrderRepository.java

Linija/Linije slabosti: 91

Deo koda:

```
public Object getAddresses(int userId) {
   List<Address> addresses = new ArrayList<>();
   String sqlQuery = "SELECT id, name FROM address WHERE userId=" + userId;
   try (Connection connection = dataSource.getConnection();
        Statement statement = connection.createStatement();
        ResultSet rs = statement.executeQuery(sqlQuery)) {
        while (rs.next()) {
            addresses.add(createAddress(rs));
        }
    } catch (SQLException e) {
```

Ishod: False Positive

Pojasnjenje: Konkatenacija String + int, sve je u redu

SQLi - Slabost 20

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/PermissionRepository.java

Linija/Linije slabosti: 32

```
public List<Permission> findByRoleId(int roleId) {
   List<Permission> permissions = new ArrayList<>();

   String query = "SELECT id, name FROM permissions WHERE id IN (SELECT permissionId FROM role_to_permissions WHERE roleId=" + roleId + ")";

   try (Connection connection = dataSource.getConnection();

        Statement statement = connection.createStatement();

        ResultSet rs = statement.executeQuery(query)) {

        while (rs.next()) {

            int id = rs.getInt(1);
        }
        }
}
```

```
String name = rs.getString(2);

permissions.add(new Permission(id, name));
}
```

Ishod: False positive

Pojasnjenje: Sve je u redu, konkatenacija String + int

SQLi - Slabost 21

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/RoleRepository.java

Linija/Linije slabosti: 32

Deo koda:

Ishod: False Positive

Pojasnjenje: Konkatenacija String + Int

SOLi - Slabost 22

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/UserRepository.java

Linija/Linije slabosti: 29

Deo koda:

```
public User findUser(String username) {
    String query = "SELECT id, username, password FROM users WHERE username='" +
    username + "'";
    try (Connection connection = dataSource.getConnection();
        Statement statement = connection.createStatement();
        ResultSet rs = statement.executeQuery(query)) {
        if (rs.next()) {
            int id = rs.getInt(1);
            String username1 = rs.getString(2);
            String password = rs.getString(3);
            return new User(id, username1, password);
        }
}
```

Ishod: True positive

Pojasnjenje: Konkatenacija stringova, neophodan PrepareStatement

SQLi - Slabost 23

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/UserRepository.java

Linija/Linije slabosti: 46

```
public boolean validCredentials(String username, String password) {
    String query = "SELECT username FROM users WHERE username='" + username + "'
AND password='" + password + "'";
    try (Connection connection = dataSource.getConnection();
        Statement statement = connection.createStatement();
        ResultSet rs = statement.executeQuery(query)) {
        return rs.next();
    }
}
```

```
} catch (SQLException e) {
    e.printStackTrace();
}
return false;
```

Ishod: True Positive

Pojasnjenje: Konkatenacija String, neophodno koriscenje *PrepareStatement*

SQLi - Slabost 24

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/UserRepository.java

Linija/Linije slabosti: 59

Deo koda:

```
public void delete(int userId) {
    String query = "DELETE FROM users WHERE id = " + userId;
    try (Connection connection = dataSource.getConnection();
        Statement statement = connection.createStatement();
    ) {
        statement.executeUpdate(query);
    } catch (SQLException e) {
        e.printStackTrace();
    }
}
```

Ishod: False Positive

Pojasnjenje: Sve je u redu, radi se konkatenacija String + int

Insecure Configuration

• Pronadjeno ukupno potencijalnih 25 slabosti

Insecure Configuration - Slabost 1

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/CustomerRepository.java

Linija/Linije slabosti: 47

Deo koda:

```
while (rs.next()) {
        customers.add(createCustomer(rs));
    }
} catch (SQLException e) {
        e.printStackTrace();
}
return customers;
}

private com.zuehlke.securesoftwaredevelopment.domain.Customer createCustomer(ResultSet rs) throws SQLException {
```

Ishod:

Pojasnjenje:

Insecure Configuration - Slabost 2

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/CustomerRepository.java

Linija/Linije slabosti: 68

```
while (rs.next()) {
    restaurants.add(createRestaurant(rs));
}

catch (SQLException e) {
    e.printStackTrace();
}
```

```
return restaurants;
}
private Restaurant createRestaurant(ResultSet rs) throws SQLException {
```

Ishod:

Pojasnjenje:

Insecure Configuration - Slabost 3

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/CustomerRepository.java

Linija/Linije slabosti: 94

Deo koda:

```
if (rs.next()) {
        return createRestaurant(rs);
    }
} catch (SQLException e) {
        e.printStackTrace();
}
return null;
}
public void deleteRestaurant(int id) {
```

Ishod:

Pojasnjenje:

Insecure Configuration - Slabost 4

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/CustomerRepository.java

Linija/Linije slabosti: 106

Ishod:

Pojasnjenje:

Insecure Configuration - Slabost 5

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/CustomerRepository.java

Linija/Linije slabosti: 117

```
public Customer getCustomer(String id) {
```

Ishod:

Pojasnjenje:

Insecure Configuration - Slabost 6

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/CustomerRepository.java

Linija/Linije slabosti: 133

Deo koda:

```
if (rs.next()) {
        return createCustomerWithPassword(rs);
    }
} catch (SQLException e) {
        e.printStackTrace();
}
return null;
}
private Customer createCustomerWithPassword(ResultSet rs) throws SQLException {
```

Ishod:

Pojasnjenje:

Insecure Configuration - Slabost 7

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/CustomerRepository.java

Linija/Linije slabosti: 153

```
try (Connection connection = dataSource.getConnection();

Statement statement = connection.createStatement()
```

```
statement.executeUpdate(query);

} catch (SQLException e) {
    e.printStackTrace();
}

public void updateCustomer(CustomerUpdate customerUpdate) {
    String query = "UPDATE users SET username = '" + customerUpdate.getUsername() + "', password='" + customerUpdate.getPassword() + "' WHERE id =" + customerUpdate.getId();
```

Ishod:

Pojasnjenje:

Insecure Configuration - Slabost 8

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/CustomerRepository.java

Linija/Linije slabosti: 164

Ishod:

Pojasnjenje:

Insecure Configuration - Slabost 9

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/CustomerRepository.java

Linija/Linije slabosti: 180

Deo koda:

```
while (rs.next()) {
    addresses.add(createAddress(rs));
}
} catch (SQLException e) {
    e.printStackTrace();
}
return addresses;
}
private Address createAddress(ResultSet rs) throws SQLException {
```

Ishod:

Pojasnjenje:

Insecure Configuration - Slabost 10

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/CustomerRepository.java

Linija/Linije slabosti: 198

```
} catch (SQLException e) {
        e.printStackTrace();
}

public void updateCustomerAddress(Address address) {
        String query = "UPDATE address SET name = '" + address.getName() + "' WHERE id =" + address.getId();
```

Ishod:

Pojasnjenje:

Insecure Configuration - Slabost 11

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/CustomerRepository.java

Linija/Linije slabosti: 209

Deo koda:

Ishod:

Pojasnjenje:

Insecure Configuration - Slabost 12

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/CustomerRepository.java

Linija/Linije slabosti: 220

Deo koda:

Ishod:

Pojasnjenje:

Insecure Configuration - Slabost 13

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/DeliveryRepository.java

Linija/Linije slabosti: 33

```
while (rs.next()) {
        deliveries.add(createDelivery(rs));
    }
} catch (SQLException e) {
        e.printStackTrace();
}
```

```
return deliveries;
}
```

Ishod:

Pojasnjenje:

Insecure Configuration - Slabost 14

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/DeliveryRepository.java

Linija/Linije slabosti: 63

Deo koda:

```
if (rs.next()) {
      return createDelivery(rs);
    }
} catch (SQLException e) {
      e.printStackTrace();
}
return null;
}
public List<DeliveryDetail> getDeliveryDetails(String id) {
```

Ishod:

Pojasnjenje:

Insecure Configuration - Slabost 15

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/DeliveryRepository.java

Linija/Linije slabosti: 81

```
while (rs.next()) {
```

```
details.add(createDetail(rs));
}
} catch (SQLException e) {
    e.printStackTrace();
}
return details;
}
```

Ishod:

Pojasnjenje:

Insecure Configuration - Slabost 16

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/HashedUserRepository.java

Linija/Linije slabosti: 35

Deo koda:

```
String salt = rs.getString(2);
String totpKey = rs.getString(3);
return new HashedUser(username, passwordHash, salt, totpKey);
}
catch (SQLException e) {
    e.printStackTrace();
}
return null;
}
public void saveTotpKey(String username, String totpKey) {
```

Ishod:

Pojasnjenje:

Insecure Configuration - Slabost 17

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/HashedUserRepository.java

Linija/Linije slabosti: 49

Deo koda:

```
statement.setString(1, totpKey);
statement.setString(2, username);
statement.executeUpdate();
} catch (SQLException e) {
    e.printStackTrace();
}
```

Ishod:

Pojasnjenje:

Insecure Configuration - Slabost 18

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/OrderRepository.java

Linija/Linije slabosti: 36

```
while (rs.next()) {
         menu.add(createFood(rs));
    }
} catch (SQLException e) {
        e.printStackTrace();
}
return menu;
```

```
}
```

Ishod:

Pojasnjenje:

Insecure Configuration - Slabost 19

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/OrderRepository.java

Linija/Linije slabosti: 80

Deo koda:

```
System.out.println(sqlQuery);
statement.executeUpdate(sqlQuery);
}
catch (SQLException e) {
    e.printStackTrace();
}
```

Ishod:

Pojasnjenje:

Insecure Configuration - Slabost 20

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/OrderRepository.java

Linija/Linije slabosti: 97

```
while (rs.next()) {
    addresses.add(createAddress(rs));
}
} catch (SQLException e) {
```

```
e.printStackTrace();
}

return addresses;
}

private Address createAddress(ResultSet rs) throws SQLException {
```

Ishod:

Pojasnjenje:

Insecure Configuration - Slabost 21

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/PermissionRepository.java

Linija/Linije slabosti: 39

Deo koda:

```
int id = rs.getInt(1);
    String name = rs.getString(2);
    permissions.add(new Permission(id, name));
}

catch (SQLException e) {
    e.printStackTrace();
}

return permissions;
}
```

Ishod:

Pojasnjenje:

Insecure Configuration - Slabost 22

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/RoleRepository.java

Linija/Linije slabosti: 39

Deo koda:

```
int id = rs.getInt(1);
    String name = rs.getString(2);
    roles.add(new Role(id, name));
}

catch (SQLException e) {
    e.printStackTrace();
}

return roles;
}
```

Ishod:

Pojasnjenje:

Insecure Configuration - Slabost 23

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/UserRepository.java

Linija/Linije slabosti: 37

```
String username1 = rs.getString(2);
String password = rs.getString(3);
return new User(id, username1, password);
}
catch (SQLException e) {
   e.printStackTrace();
}
```

```
return null;
}
public boolean validCredentials(String username, String password) {
```

Ishod:

Pojasnjenje:

Insecure Configuration - Slabost 24

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/UserRepository.java

Linija/Linije slabosti: 49

Deo koda:

Ishod:

Pojasnjenje:

Insecure Configuration - Slabost 25

Fajl: src/main/java/com/zuehlke/securesoftwaredevelopment/repository/UserRepository.java

Linija/Linije slabosti: 61

Ishod:

Pojasnjenje: