

Fortify Audit Workbench

Developer Workbook

fastester2.0-REST_07262019



Table of Contents

Executive Summary
Project Description
Issue Breakdown by Fortify Categories
Results Outline

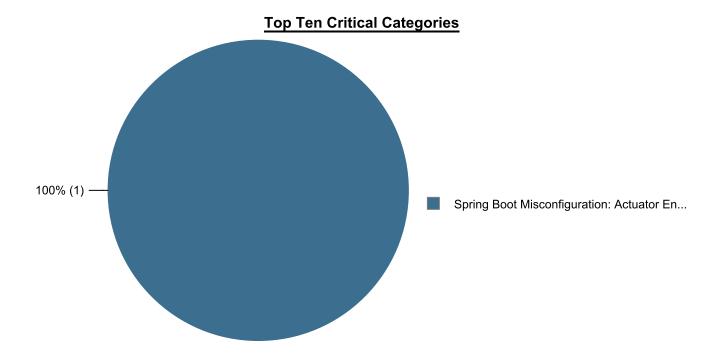


Executive Summary

This workbook is intended to provide all necessary details and information for a developer to understand and remediate the different issues discovered during the fastester2.0-REST_07262019 project audit. The information contained in this workbook is targeted at project managers and developers.

This section provides an overview of the issues uncovered during analysis.

Project Name:	fastester2.0-REST_0726		Issues by	y Priority
Project Version: SCA:	Results Present	^	8	1
Weblnspect:	Results Not Present	Impact	High	Critical
Weblnspect Agent: Other:	Results Not Present Results Not Present	Impact	405 Low	0 Medium
Cuisii		ı	LOW	
			Likel	ihood





Project Description

This section provides an overview of the Fortify scan engines used for this project, as well as the project meta-information.

SCA

Date of Last Analysis: Jul 26, 2019, 3:30 PM Engine Version: 18.20.1071

Host Name: CTSINMBPPROS1 Certification: VALID

Number of Files: 173 Lines of Code: 14,450



Issue Breakdown by Fortify Categories

The following table depicts a summary of all issues grouped vertically by Fortify Category. For each category, the total number of issues is shown by Fortify Priority Order, including information about the number of audited issues.

Category	Fortify	/ Priority	(audited/t	otal)	Total
	Critical	High	Medium	Low	Issues
Build Misconfiguration: External Maven Dependency Repository	0	0	0	0 / 1	0 / 1
Code Correctness: Byte Array to String Conversion	0	0	0	0/6	0/6
Code Correctness: Class Does Not Implement equals	0	0	0	0 / 4	0 / 4
Code Correctness: Erroneous String Compare	0	0	0	0/2	0/2
Code Correctness: Hidden Method	0	0	0	0 / 1	0 / 1
Code Correctness: null Argument to equals()	0	0	0	0 / 1	0 / 1
Code Correctness: toString on Array	0	0	0	0 / 1	0 / 1
Dead Code: Expression is Always false	0	0	0	0/3	0/3
Dead Code: Unused Field	0	0	0	0 / 40	0 / 40
Dead Code: Unused Method	0	0	0	0/7	0/7
Denial of Service	0	0	0	0/3	0/3
J2EE Bad Practices: Leftover Debug Code	0	0	0	0/2	0/2
Null Dereference	0	0/5	0	0	0/5
Password Management: Null Password	0	0	0	0 / 1	0 / 1
Password Management: Password in Comment	0	0	0	0 / 53	0 / 53
Poor Error Handling: Empty Catch Block	0	0	0	0 / 1	0 / 1
Poor Error Handling: Overly Broad Catch	0	0	0	0 / 51	0 / 51
Poor Error Handling: Overly Broad Throws	0	0	0	0 / 57	0 / 57
Poor Error Handling: Program Catches NullPointerException	0	0	0	0 / 1	0 / 1
Poor Error Handling: Throw Inside Finally	0	0	0	0/3	0/3
Poor Logging Practice: Use of a System Output Stream	0	0	0	0/3	0/3
Poor Style: Confusing Naming	0	0	0	0 / 1	0 / 1
Poor Style: Redundant Initialization	0	0	0	0/1	0 / 1
Poor Style: Value Never Read	0	0	0	0 / 78	0 / 78
Privacy Violation: Heap Inspection	0	0 / 1	0	0	0 / 1
Redundant Null Check	0	0	0	0/5	0/5
Spring Boot Misconfiguration: Actuator Endpoint Security Disabled	0 / 1	0	0	0	0 / 1
Spring Boot Misconfiguration: DevTools Enabled	0	0 / 1	0	0	0 / 1
System Information Leak	0	0	0	0 / 75	0 / 75
System Information Leak: Spring Boot Actuators Enabled	0	0	0	0 / 1	0 / 1
Unchecked Return Value	0	0	0	0/3	0/3
Unreleased Resource: Streams	0	0 / 1	0	0	0 / 1



Results Outline

Build Misconfiguration: External Maven Dependency Repository (1 issue)

Abstract

This maven build script relies on external sources, which could allow an attacker to insert malicious code into the final product or to take control of the build machine.

Explanation

Several tools exist within the Java development world to aid in dependency management: both Apache Ant and Apache Maven build systems include functionality specifically designed to help manage dependencies and Apache Ivy is developed explicitly as a dependency manager. Although there are differences in their behavior, these tools share the common functionality that they automatically download external dependencies specified in the build process at build time. This makes it much easier for developer B to build software in the same manner as developer A. Developers just store dependency information in the build file, which means that each developer and build engineer has a consistent way to obtain dependencies, compile the code, and deploy without the dependency management hassles involved in manual dependency management. The following examples illustrate how Ivy, Ant and Maven can be used to manage external dependencies as part of a build process. Under Maven, instead of listing explicit URLs from which to retrieve the dependencies, developers specify the dependency names and versions and Maven relies on its underlying configuration to identify the server(s) from which to retrieve the dependencies. For commonly used components this saves the developer from having to researching dependency locations. **Example 1:** The following except from a Maven pom.xml file shows how a developer can specify multiple external dependencies using their name and version:

Two distinct types of attack scenarios affect these systems: An attacker could either compromise the server hosting the dependency or compromise the DNS server the build machine uses to redirect requests for hostname of the server hosting the dependency to a machine controlled by the attacker. Both scenarios result in the attacker gaining the ability to inject a malicious version of a dependency into a build running on an otherwise uncompromised machine. Regardless of the attack vector used to deliver the Trojan dependency, these scenarios share the common element that the build system blindly accepts the malicious binary and includes it in the build. Because the build system has no recourse for rejecting the malicious binary and existing security mechanisms, such as code review, typically focus on internally-developed code rather than external dependencies, this type of attack has a strong potential to go unnoticed as it spreads through the development environment and potentially into production. Although there is some risk of a compromised dependency being introduced into a manual build process, by the tendency of automated build systems to retrieve the dependency from an external source each time the build system is run in a new environment greatly increases the window of opportunity for an attacker. An attacker need only compromise the dependency server or the DNS server during one of the many times the dependency is retrieved in order to compromise the machine on which the build is occurring.



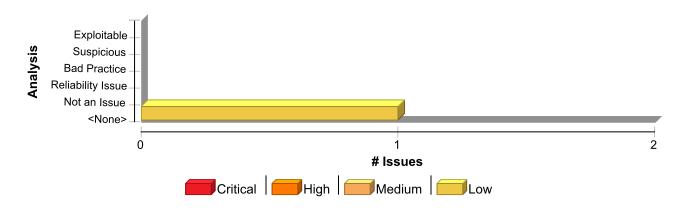
Recommendation

The simplest solution is to refrain from adopting automated dependency management systems altogether. Managing dependencies manually eliminates the potential for unexpected behavior caused by the build system. Obviously, the an attacker could still mount one of the attacks described above to coincide with the manual retrieval of a dependency, but limiting the frequency with which the dependency must be retrieved significantly reduces the window of opportunity for an attacker. Finally, this solution forces the development organization to rely on what is ostensibly an antiquated build system. A system based on manual dependency management is often more difficult to use and maintain, and may be unacceptable in some software development environments. The second solution is a hybrid of the traditional manual dependency management approach and the fully automated solution that is popular today. The biggest advantage of the manual build process is the decreased window of attack, which can be achieved in a semi-automated system by replicating external dependency servers internally. Any build system that requires an external dependency can then point to the internal server using a hard-coded internal IP address to bypass the risk of DNS-based attacks. As new dependencies are added and new versions released, they can be downloaded once and included on the internal repository. This solution reduces the attack opportunities and allows the organization leverage existing internal network security infrastructure. To implement this solution using Maven, a project should have the IP address for an internal repository hard coded the pom.xml. Specifying the IP address in the pom.xml ensures the internal repository will be used by the corresponding build, but is tied to a specific project. Alternatively, the IP address can be specified in settings.xml, which makes the configuration easier to share across multiple projects. Example 2: The following Maven pom.xml demonstrates the use of an explicit internal IP address (the entries can also be used in settings.xml):

```
<repositories>
   <repository>
      <releases>
        <enabled>true</enabled>
        <updatePolicy>always</updatePolicy>
        <checksumPolicy>warn</checksumPolicy>
      </releases>
      <snapshots>
        <enabled>true</enabled>
        <updatePolicy>never</updatePolicy>
        <checksumPolicy>fail</checksumPolicy>
      </snapshots>
      <id>central</id>
      <name>Internal Repository</name>
      <url>http://172.16.1.13/maven2</url>
      <layout>default</layout>
    </repository>
 </repositories>
 <pluginRepositories>
 </pluginRepositories>
</project>
```

Issue Summary





Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
Build Misconfiguration: External Maven Dependency Repository	1	0	0	1
Total	1	0	0	1

Build Misconfiguration: External Maven Dependency Repository	Low
Package: <none></none>	
pom.xml, line 189 (Build Misconfiguration: External Maven Dependency Repository)	Low

Issue Details

Kingdom: Environment

Scan Engine: SCA (Configuration)

Sink Details

Sink: //project/repositories File: pom.xml:189

186	
187	
188	
189	<repositories></repositories>
190	<repository></repository>
191	<id>repository.springsource.milestone</id>
192	<name>SpringSource Milestone Repository</name>



Code Correctness: Byte Array to String Conversion (6 issues)

Abstract

Converting a byte array into a String may lead to data loss.

Explanation

When data from a byte array is converted into a String, it is unspecified what will happen to any data that is outside of the applicable character set. This can lead to data being lost, or a decrease in the level of security when binary data is needed to ensure proper security measures are followed. **Example 1:** The following code converts data into a String in order to create a hash.

```
FileInputStream fis = new FileInputStream(myFile);
byte[] byteArr = byte[BUFSIZE];
...
int count = fis.read(byteArr);
...
String fileString = new String(byteArr);
String fileSHA256Hex = DigestUtils.sha256Hex(fileString);
// use fileSHA256Hex to validate file
```

Assuming the size of the file is less than <code>BUFSIZE</code>, this works fine as long as the information in <code>myFile</code> is encoded the same as the default character set, however if it's using a different encoding, or is a binary file, it will lose information. This in turn will cause the resulting SHA hash to be less reliable, and could mean it's far easier to cause collisions, especially if any data outside of the default character set is represented by the same value, such as a question mark.

Recommendation

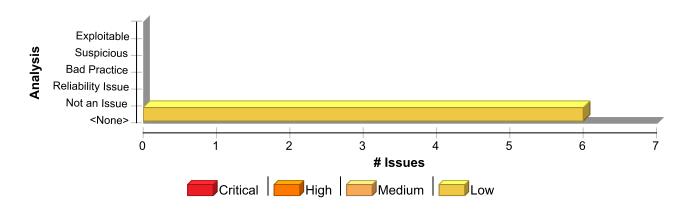
Generally speaking, a byte array potentially containing noncharacter data should never be converted into a String object as it may break functionality, but in some cases this can cause much larger security concerns. In a lot of cases there is no need to actually convert a byte array into a String, but if there is a specific reason to be able to create a String object from binary data, it must first be encoded in a way such that it will fit into the default character set. **Example 2:** The following uses a different variant of the API in Example 1 to prevent any validation problems.

```
FileInputStream fis = new FileInputStream(myFile);
byte[] byteArr = byte[BUFSIZE];
...
int count = fis.read(byteArr);
...
byte[] fileSHA256 = DigestUtils.sha256(byteArr);
// use fileSHA256 to validate file, comparing hash byte-by-byte.
```

In this case, it is straightforward to rectify, since this API has overloaded variants including one that accepts a byte array, and this could be simplified even further by using another overloaded variant of <code>DigestUtils.sha256()</code> that accepts a <code>FileInputStream</code> object as its argument. Other scenarios may need careful consideration as to whether it's possible that the byte array could contain data outside of the character set, and further refactoring may be required.

Issue Summary





Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
Code Correctness: Byte Array to String Conversion	6	0	0	6
Total	6	0	0	6

Code Correctness: Byte Array to String Conversion

Low

Package: com.cts.dcrowd.rest.app.security

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 431 (Code Correctness: Byte Array to String Conversion)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Semantic)

Sink Details

Sink: String()

Enclosing Method: decryptLoginCredential()

File: src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java:431

Taint Flags:

```
428  Cipher cipher = Cipher.getInstance("Blowfish/CBC/PKCS5Padding");
429  cipher.init(Cipher.DECRYPT_MODE, skeyspec);
430  byte[] decrypted = cipher.doFinal(blowFishCredentials.getBytes());
431  userCredential = new String(decrypted);
432  }
433  catch (Exception e) {
434  userCredential = null;
```

Package: com.cts.dcrowd.rest.app.util

src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java, line 101 (Code Correctness: Byte Array to String Conversion)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Semantic)

Sink Details



Code Correctness: Byte Array to String Conversion

Low

Package: com.cts.dcrowd.rest.app.util

src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java, line 101 (Code Correctness: Byte Array to String Conversion)

Low

Sink: String()

Enclosing Method: generateBlowFishDecryptValue()

File: src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java:101

Taint Flags:

```
98    Cipher cipher = Cipher.getInstance("Blowfish/CBC/PKCS5Padding");
99    cipher.init(Cipher.DECRYPT_MODE, skeyspec);
100    byte[] decrypted = cipher.doFinal(Base64.getDecoder().decode(encryptedValue));
101    strData = new String(decrypted);
102    System.out.println(strData);
103    } catch (Exception e) {
104    e.printStackTrace();
```

src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java, line 48 (Code Correctness: Byte Array to String Conversion)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Semantic)

Sink Details

Sink: String()

Enclosing Method: base64Encoder()

File: src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java:48

Taint Flags:

```
45 * @return the string
46 */
47 public static String base64Encoder(byte[] source) {
48  return new String(Base64.getEncoder().encode(source));
49 }
50
51 /**
```

src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java, line 80 (Code Correctness: Byte Array to String Conversion)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Semantic)

Sink Details

Sink: String()

Enclosing Method: generateBlowFishEncryptValue()

File: src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java:80



Code Correctness: Byte Array to String Conversion

Low

Package: com.cts.dcrowd.rest.app.util

src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java, line 80 (Code Correctness: Byte Array to String Conversion)

Low

```
77  Cipher cipher=Cipher.getInstance("Blowfish/CBC/PKCS5Padding");
78  cipher.init(Cipher.ENCRYPT_MODE, skeyspec);
79  byte[] encrypted=cipher.doFinal(sourceValue.getBytes());
80  strData = new String(Base64.getEncoder().encode(encrypted));
81  } catch (Exception e) {
82  e.printStackTrace();
83 }
```

Package: com.cts.dcrowd.rest.app.utils

src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 546 (Code Correctness: Byte Array to String Conversion)

Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Semantic)

Sink Details

Sink: String()

Enclosing Method: base64Encoder()

File: src/main/java/com/cts/dcrowd/rest/app/utils/Util.java:546

Taint Flags:

```
543 * @return the string
544 */
545 public static String base64Encoder(byte[] source) {
546  return new String(Base64.getEncoder().encode(source));
547 }
548
549 /**
```

src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 747 (Code Correctness: Byte Array to String Conversion)

Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Semantic)

Sink Details

Sink: String()

Enclosing Method: decryptLoginCredential()

File: src/main/java/com/cts/dcrowd/rest/app/utils/Util.java:747

```
744 Cipher cipher = Cipher.getInstance("Blowfish/CBC/PKCS5Padding");
745 cipher.init(Cipher.DECRYPT_MODE, skeyspec);
746 byte[] decrypted = cipher.doFinal(blowFishCredentials.getBytes());
```



Code	Correctness: Byte Array to String Conversion	Low				
Pack	Package: com.cts.dcrowd.rest.app.utils					
	nain/java/com/cts/dcrowd/rest/app/utils/Util.java, line 747 (Code ectness: Byte Array to String Conversion)	Low				
747	<pre>userCredential = new String(decrypted);</pre>					
748	}					
749	catch (Exception e) {					
750	<pre>userCredential = null;</pre>					



Code Correctness: Class Does Not Implement equals (4 issues)

Abstract

The equals() method is called on an object that does not implement equals().

Explanation

When comparing objects, developers usually want to compare properties of objects. However, calling equals() on a class (or any super class/interface) that does not explicitly implement equals() results in a call to the equals() method inherited from java.lang.Object. Instead of comparing object member fields or other properties, Object.equals() compares two object instances to see if they are the same. Although there are legitimate uses of Object.equals(), it is often an indication of buggy code. **Example 1:**

```
public class AccountGroup
{
    private int gid;
    public int getGid()
    {
        return gid;
    }
    public void setGid(int newGid)
    {
            gid = newGid;
      }
}
...
public class CompareGroup
{
    public boolean compareGroups(AccountGroup group1, AccountGroup group2)
      {
            return group1.equals(group2); //equals() is not implemented in AccountGroup
      }
}
```

Recommendation

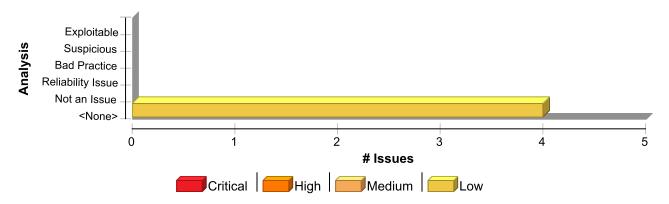
Verify that the use of <code>Object.equals()</code> is really the method you intend to call. If not, implement an <code>equals()</code> method or use a different method for comparing objects. **Example 2:** The following code adds an <code>equals()</code> method to the example from the Explanation section.

```
public class AccountGroup
{
    private int gid;
    public int getGid()
    {
        return gid;
    }
    public void setGid(int newGid)
    {
        gid = newGid;
    }
}
```



```
public boolean equals(Object o)
{
    if (!(o instanceof AccountGroup))
        return false;
    AccountGroup other = (AccountGroup) o;
    return (gid == other.getGid());
    }
}
...
public class CompareGroup
{
    public static boolean compareGroups(AccountGroup group1, AccountGroup group2)
    {
        return group1.equals(group2);
    }
}
```

Issue Summary



Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Code Correctness: Class Does Not Implement equals	4	0	0	4
Total	4	0	0	4

Code Correctness: Class Does Not Implement equals	Low
Package: .com.cts.dcrowd.rest.app.service.helper	
src/main/java/com/cts/dcrowd/rest/app/service/helper/ CampaignServiceHelper.java, line 371 (Code Correctness: Class Does Not Implement equals)	Low

Issue Details

Kingdom: API Abuse

Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: equals **Enclosing Method:** accept()



Code Correctness: Class Does Not Implement equals

Low

Package: .com.cts.dcrowd.rest.app.service.helper

src/main/java/com/cts/dcrowd/rest/app/service/helper/

CampaignServiceHelper.java, line 371 (Code Correctness: Class Does Not Implement equals)

Low

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/CampaignServiceHelper.java:371 **Taint Flags:**

```
368 for(Object filterTagValue : (List<?>) filterTags.getValue()) {
369  try {
370  JSONObject filterObject = convertObjectToJson(filterTagValue);
371  if(filterObject.getString("state_code").equals(filterByState.getAddress().getState())) {
372
  if(filterObject.getString("country_code").equals(filterByState.getAddress().getCountry())) {
373  userListAfterStateFilter.add(filterByState);
374  } else {
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/ CampaignServiceHelper.java, line 372 (Code Correctness: Class Does Not

Low

Implement equals)

Issue Details

Kingdom: API Abuse

Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: equals Enclosing Method: accept()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/CampaignServiceHelper.java:372

Taint Flags:

```
369 try {
370    JSONObject filterObject = convertObjectToJson(filterTagValue);
371    if(filterObject.getString("state_code").equals(filterByState.getAddress().getState())) {
372
    if(filterObject.getString("country_code").equals(filterByState.getAddress().getCountry())) {
373     userListAfterStateFilter.add(filterByState);
374    } else {
375     continue;
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/

CampaignServiceHelper.java, line 377 (Code Correctness: Class Does Not Implement equals)

Low

Issue Details

Kingdom: API Abuse

Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: equals **Enclosing Method:** accept()



Code Correctness: Class Does Not Implement equals Package: .com.cts.dcrowd.rest.app.service.helper src/main/java/com/cts/dcrowd/rest/app/service/helper/ CampaignServiceHelper.java, line 377 (Code Correctness: Class Does Not Implement equals)

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/CampaignServiceHelper.java:377 **Taint Flags:**

Package: com.cts.dcrowd.rest.app.service.helper

src/main/java/com/cts/dcrowd/rest/app/service/helper/ CampaignServiceHelper.java, line 341 (Code Correctness: Class Does Not Implement equals)

Low

Issue Details

Kingdom: API Abuse

Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: equals

Enclosing Method: orCriteriaFilterByCountryMatch()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/CampaignServiceHelper.java:341

```
338 try {
339  //1. Convert object to JSON
340  JSONObject filterObject = convertObjectToJson(filterTagValue);
341  if(filterObject.getString("country_code").equals(addressObject.getCountry())) {
342  matchFound = true;
343  }
344  } catch (JSONException | ParseException e) {
```



Code Correctness: Erroneous String Compare (2 issues)

Abstract

Strings should be compared with the equals() method, not == or !=.

Explanation

This program uses == or != to compare two strings for equality, which compares two objects for equality, not their values. Chances are good that the two references will never be equal. **Example 1:** The following branch will never be taken.

```
if (args[0] == STRING_CONSTANT) {
    logger.info("miracle");
}
```

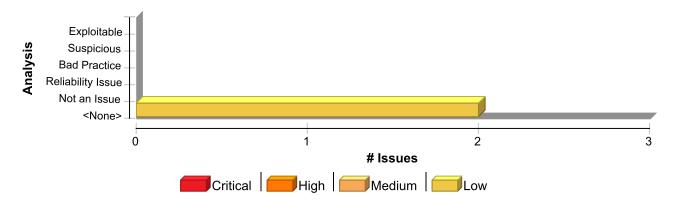
The == and != operators will only behave as expected when they are used to compare strings contained in objects that are equal. The most common way for this to occur is for the strings to be interned, whereby the strings are added to a pool of objects maintained by the String class. Once a string is interned, all uses of that string will use the same object and equality operators will behave as expected. All string literals and string-valued constants are interned automatically. Other strings can be interned manually be calling String.intern(), which will return a canonical instance of the current string, creating one if necessary.

Recommendation

Use equals () to compare strings. **Example 2:** The code in Example 1 could be rewritten in the following way:

```
if (STRING_CONSTANT.equals(args[0])) {
    logger.info("could happen");
}
```

Issue Summary



Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
Code Correctness: Erroneous String Compare	2	0	0	2
Total	2	0	0	2



Code Correctness: Erroneous String Compare

Low

Package: com.cts.dcrowd.rest.app.security

src/main/java/com/cts/dcrowd/rest/app/security/ApplicationAuthProvider.java, line 142 (Code Correctness: Erroneous String Compare)

Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)

Sink Details

Sink: Operation

Enclosing Method: authenticateEmployee()

File: src/main/java/com/cts/dcrowd/rest/app/security/ApplicationAuthProvider.java:142

Taint Flags:

```
139  username = authentication.getName();
140  password = authentication.getCredentials().toString();
141
142  if(password != null && password != ""){
143  requestFactory = new HttpComponentsClientHttpRequestFactory();
144  SSLContextBuilder sslContextBuilder = new SSLContextBuilder();
145  sslContextBuilder.loadTrustMaterial(null, new TrustStrategy() {
```

Package: com.cts.dcrowd.rest.app.service

src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java, line 628 (Code Correctness: Erroneous String Compare)

Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Operation

Enclosing Method: setExternalModLvl()

File: src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java:628

```
625 else {
626  ExternalUserVO externalUser =
externalUserRepository.findByUsername(userModel.getUserEmailId().trim());
627  if (externalUser != null) {
628   if (externalUser.get_id() != null && externalUser.get_id() != "") {
629   updateExternalModeratoruser(externalUser, campaign, moderatorRoleObj);
630   userModel.setMailSent(true);
631
```



Code Correctness: Hidden Method (1 issue)

Abstract

Static methods cannot be overridden, but may appear to be hidden when called as an instance method.

Explanation

Static methods cannot be overridden by definition, since they belong to the class rather than an instance of the class. Although there are cases where it looks like a static method has been overridden in a subclass, which may cause confusion and can lead to the incorrect version of the method being called. **Example 1:** The following tries to define an API for authenticating users.

```
class AccessLevel{
  public static final int ROOT = 0;
  //...
  public static final int NONE = 9;
//...
class User {
  private static int access;
  public User(){
    access = AccessLevel.ROOT;
  public static int getAccessLevel(){
    return access;
  //...
class RegularUser extends User {
  private static int access;
  public RegularUser(){
    access = AccessLevel.NONE;
  public static int getAccessLevel(){
    return access;
  public static void escalatePrivilege(){
    access = AccessLevel.ROOT;
  //...
}
//...
class SecureArea {
  public static void doRestrictedOperation(User user) {
    if (user instanceof RegularUser){
      if (user.getAccessLevel() == AccessLevel.ROOT){
        System.out.println("doing a privileged operation");
      }else{
        throw new RuntimeException();
  }
```

At first glance, this code looks fine. However, since we are calling the method <code>getAccessLevel()</code> against the instance <code>user</code> and not against the classes <code>User</code> or <code>RegularUser</code>, it will mean that this condition will always return <code>true</code>, and the restricted operation will be performed even though <code>instanceof</code>



was used in order to get into this part of the if/else block.

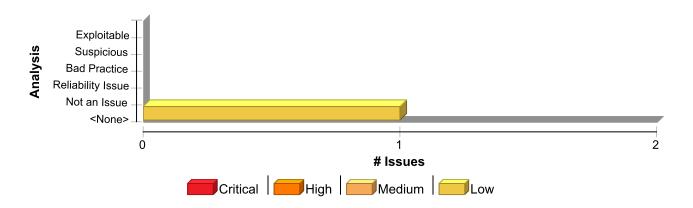
Recommendation

When possible, try not to give static methods a signature similar to those in superclasses to avoid confusion. Ideally the code should be refactored to make it clearer, such as putting these into separate final classes, which cannot be subclassed, or making the constructor private therefore preventing the static methods being called against an instance of a class instead of the class itself. **Example 2:** The following refactors the code to make the permissions clearer, and uses the principle of least privilege to make sure it fails securely.

```
class AccessLevel{
  public static final int ROOT = 0;
  public static final int NONE = 9;
}
class User {
  protected int access;
  public User(){
    access = AccessLevel.NONE;
  public int getAccessLevel(){
    return access;
final class RegularUser extends User {
final class AdminUser extends User {
  public AdminUser(){
    access = AccessLevel.ROOT;
}
class SecureArea {
  public void doRestrictedOperation(User user) throws
PermissionNotAllowedException {
    if (user.getAccessLevel() == AccessLevel.ROOT){
      //do operation
      . . .
    }else{
      throw new PermissionNotAllowedException();
}
```

Issue Summary





Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
Code Correctness: Hidden Method	1	0	0	1
Total	1	0	0	1

Code Correctness: Hidden Method	Low
Package: com.cts.dcrowd.rest.defect.app.domain	
src/main/java/com/cts/dcrowd/rest/defect/app/domain/DefectEntry.java, line 464 (Code Correctness: Hidden Method)	Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)

Sink Details

Sink: Function: getSerialversionuid **Enclosing Method:** getSerialversionuid()

File: src/main/java/com/cts/dcrowd/rest/defect/app/domain/DefectEntry.java:464

```
461 *
462 * @return the serialversionuid
463 */
464 public static long getSerialversionuid() {
465 return serialVersionUID;
466 }
467
```



Code Correctness: null Argument to equals() (1 issue)

Abstract

The expression obj.equals(null) will always be false.

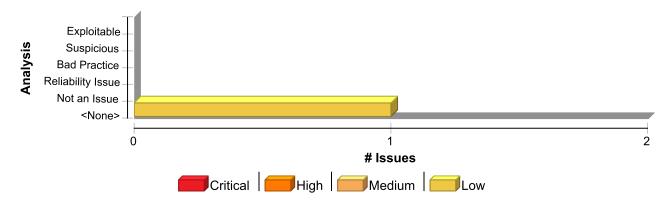
Explanation

The program uses the equals() method to compare an object with null. This comparison will always return false, since the object is not null. (If the object is null, the program will throw a NullPointerException).

Recommendation

It is possible that the programmer intended to check to see if the object was null. Instead of writing
obj.equals(null)
they intended
obj == null

Issue Summary



Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
Code Correctness: null Argument to equals()	1	0	0	1
Total	1	0	0	1

Code Correctness: null Argument to equals()	Low
Package: com.cts.dcrowd.rest.app.utils	
src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 522 (Code Correctness: null Argument to equals())	Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)

Sink Details

Sink: FunctionCall: equals



Code Correctness: null Argument to equals()	Low
Package: com.cts.dcrowd.rest.app.utils	
src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 522 (Code Correctness: null Argument to equals())	Low

Enclosing Method: generateBlowFishDecryptValue() **File:** src/main/java/com/cts/dcrowd/rest/app/utils/Util.java:522 **Taint Flags:**

```
519 * @return the string
520 */
521 public static String generateBlowFishDecryptValue(String encryptedValue) {
522 if(encryptedValue == null || encryptedValue.equals(null))
523 {
524 return null;
525 }
```



Code Correctness: toString on Array (1 issue)

<u>Abstract</u>

toString() is called on an array.

Explanation

In most cases, a call to toString() on an array indicates a developer is interested in returning the contents of the array as a String. However, a direct call to toString() on an array will return a string value containing the array's type and hashcode in memory. **Example 1:** The following code will output [Ljava.lang.String;@1232121.

```
[Ljava.lang.String;@1232121.
String[] strList = new String[5];
...
System.out.println(strList);
```

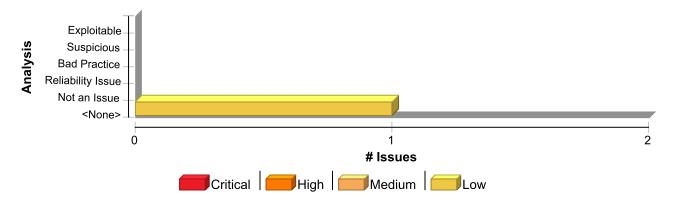
Recommendation

Several Array.toString() methods were introduced in Java 5 [1]. These methods will return a string representation of the array contents in comma delimited format. **Example 2**:

```
String[] strList = new String[5];
...
System.out.println(Arrays.toString(strList));
```

If you are using an older version of Java, you will need to iterate through the array to get the value of each element.

Issue Summary



Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
Code Correctness: toString on Array	1	0	0	1
Total	1	0	0	1

Code Correctness: toString on Array	Low
Package: com.cts.dcrowd.rest.app.utils	
src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 507 (Code Correctness: toString on Array)	Low
Issue Details	



Code Correctness: toString on Array	Low
Package: com.cts.dcrowd.rest.app.utils	
src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 507 (Code Correctness: toString on Array)	Low

Kingdom: API Abuse Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: toString

Enclosing Method: generateBlowFishEncryptValue()

File: src/main/java/com/cts/dcrowd/rest/app/utils/Util.java:507

```
504 cipher.init(Cipher.ENCRYPT_MODE, skeyspec);
505 byte[] encrypted=cipher.doFinal(sourceValue.getBytes());
506  //strData = base64Encoder(encrypted);
507 strData = encrypted.toString();
508 } catch (Exception e) {
509 e.printStackTrace();
510 }
```



Dead Code: Expression is Always false (3 issues)

Abstract

This expression (or part of it) will always evaluate to false.

Explanation

This expression (or part of it) will always evaluate to false; the program could be rewritten in a simpler form. The nearby code may be present for debugging purposes, or it may not have been maintained along with the rest of the program. The expression may also be indicative of a bug earlier in the method.

Example 1: The following method never sets the variable secondCall after initializing it to false. (The variable firstCall is mistakenly used twice.) The result is that the expression firstCall && secondCall will always evaluate to false, so setUpDualCall() will never be invoked.

```
public void setUpCalls() {
  boolean firstCall = false;
  boolean secondCall = false;

if (fCall > 0) {
    setUpFCall();
    firstCall = true;
}

if (sCall > 0) {
    setUpSCall();
    firstCall = true;
}

if (firstCall = true;
}

if (firstCall && secondCall) {
    setUpDualCall();
  }
}
```

Example 2: The following method never sets the variable firstCall to true. (The variable firstCall is mistakenly set to false after the first conditional statement.) The result is that the first part of the expression firstCall && secondCall will always evaluate to false.

```
public void setUpCalls() {
  boolean firstCall = false;
  boolean secondCall = false;

if (fCall > 0) {
    setUpFCall();
    firstCall = false;
}
  if (sCall > 0) {
    setUpSCall();
    secondCall = true;
}

if (firstCall || secondCall) {
    setUpForCall();
}
```

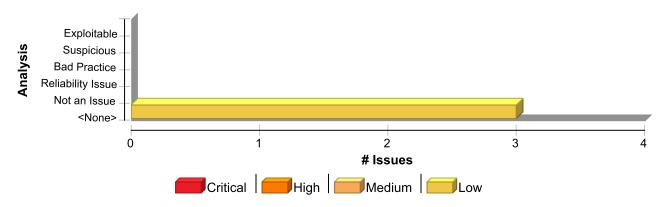
Recommendation

In general, you should repair or remove unused code. It causes additional complexity and maintenance



burden without contributing to the functionality of the program.

Issue Summary



Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
Dead Code: Expression is Always false	3	0	0	3
Total	3	0	0	3

Dead Code: Expression is Always false	Low
Package: com.cts.dcrowd.rest.app.controller	
src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 789 (Dead Code: Expression is Always false)	Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: IfStatement

Enclosing Method: removeCampaign()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:789

```
786  } catch (DcrowdException de) {
787  de.printStackTrace();
788  LOGGER.error("DcrowdException : ", de.getMessage());
789  if(status != 200) {
790  LOGGER.error("DcrowdException : Failed in CampaignController - Unable to remove Campaign");
791  return buildFailureResponse( 226, "Failed in CampaignController - Unable to remove Campaign");
792  }
```



Dead Code: Expression is Always false	Low
Package: com.cts.dcrowd.rest.defect.app.services.impl	
src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/ DcrowdDefectEntryServiceImpl.java, line 143 (Dead Code: Expression is Always false)	Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)

Sink Details

Sink: IfStatement

Enclosing Method: save()

File: src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/DcrowdDefectEntryServiceImpl.java:143

Taint Flags:

```
140 saveException = true;
141 }
142 });
143 if(saveException) {
144 throw new DcrowdException("not able to write the attachments to file server");
145 }
146 this.save(defectentry);
```

src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/ DcrowdDefectEntryServiceImpl.java, line 225 (Dead Code: Expression is Always false)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: IfStatement

Enclosing Method: update()

File: src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/DcrowdDefectEntryServiceImpl.java:225

```
222  saveException = true;
223  }
224  });
225  if(saveException) {
226  throw new DcrowdException("not able to write the attachments to file server");
227  }
228  defectentry = defaultServiceImpl.modifyDefect(defectentry);
```



Dead Code: Unused Field (40 issues)

Abstract

This field is never used.

Explanation

This field is never accessed, except perhaps by dead code. Dead code is defined as code that is never directly or indirectly executed by a public method. It is likely that the field is simply vestigial, but it is also possible that the unused field points out a bug. **Example 1:** The field named glue is not used in the following class. The author of the class has accidentally put quotes around the field name, transforming it into a string constant.

```
public class Dead {
   String glue;
   public String getGlue() {
     return "glue";
   }
}
```

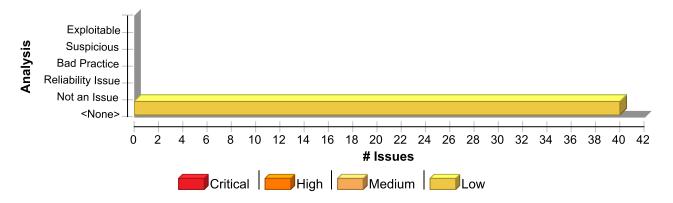
Example 2: The field named glue is used in the following class, but only from a method that is never called.

```
public class Dead {
   String glue;
   private String getGlue() {
     return glue;
   }
}
```

Recommendation

In general, you should repair or remove dead code. To repair dead code, execute the dead code directly or indirectly through a public method. Dead code causes additional complexity and maintenance burden without contributing to the functionality of the program.

Issue Summary





Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
Dead Code: Unused Field	40	0	0	40
Total	40	0	0	40

Dead Code: Unused Field	Low
Package: com.cts.dcrowd.rest.app.controller	
src/main/java/com/cts/dcrowd/rest/app/controller/LoginController.java, line 75 (Dead Code: Unused Field)	Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)

Sink Details

Sink: Field: externalUserRepository

File: src/main/java/com/cts/dcrowd/rest/app/controller/LoginController.java:75

Taint Flags:

```
72
73  /** The external user repository. */
74  @Autowired
75  private ExternalUserRepository externalUserRepository;
76
77  /** The application query processor. */
78  @Autowired
```

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 52 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)

Sink Details

Sink: Field: wac

File: src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java:52

```
49
50 /** The wac. */
51 @Autowired
52 private WebApplicationContext wac;
53
54 /** The mock mvc. */
55 MockMvc mockMvc;
```



Low

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/BadgeControllerTestNG.java, line 54 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: wac

File: src/test/java/com/cts/dcrowd/rest/app/repository/BadgeControllerTestNG.java:54

Taint Flags:

```
51
52  /** The wac. */
53  @Autowired
54  private WebApplicationContext wac;
55
56
57  /** The Constant OBJECT_MAPPER. */
```

src/test/java/com/cts/dcrowd/rest/app/repository/ CampaignControllerTestNG.java, line 50 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: wac

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:50

Taint Flags:

```
47
48 /** The wac. */
49 @Autowired
50 private WebApplicationContext wac;
51
52 /** The Constant OBJECT_MAPPER. */
53 public static final ObjectMapper OBJECT MAPPER = new ObjectMapper();
```

Package: com.cts.dcrowd.rest.app.security

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 63 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)



Low

Package: com.cts.dcrowd.rest.app.security

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 63 (Dead Code: Unused Field)

Low

Sink Details

Sink: Field: expiration

File: src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java:63

Taint Flags:

```
60
61  /** The expiration. */
62  @Value("${dcrowd.token.expiration}")
63  private String expiration;
64
65  /** The dbname. */
66  @Value("${application.dbname}")
```

src/main/java/com/cts/dcrowd/rest/app/security/LdapUserDetailsMapper.java, line 68 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Field: masterService

File: src/main/java/com/cts/dcrowd/rest/app/security/LdapUserDetailsMapper.java:68

Taint Flags:

```
65
66 /** The master service. */
67 @Autowired
68 private MasterService masterService;
69
70 /** The badge service. */
71 @Autowired
```

src/main/java/com/cts/dcrowd/rest/app/security/LdapUserDetailsMapperWS.java, line 77 (Dead Code: Unused Field)

Lov

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)

Sink Details

Sink: Field: userActivityRepository

File: src/main/java/com/cts/dcrowd/rest/app/security/LdapUserDetailsMapperWS.java:77

```
74
75 /** The user activity repository. */
```



Low

Package: com.cts.dcrowd.rest.app.security

src/main/java/com/cts/dcrowd/rest/app/security/LdapUserDetailsMapperWS.java, line 77 (Dead Code: Unused Field)

Low

```
76  @Autowired
77  private UserActivityRepository userActivityRepository;
78
79  /** The activity handler. */
80  @Autowired
```

src/main/java/com/cts/dcrowd/rest/app/security/LdapUserDetailsMapper.java, line 84 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: userActivityRepository

File: src/main/java/com/cts/dcrowd/rest/app/security/LdapUserDetailsMapper.java:84

Taint Flags:

```
81
82  /** The user activity repository. */
83  @Autowired
84  private UserActivityRepository userActivityRepository;
85
86  /*
87  * (non-Javadoc)
```

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 59 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: secret

File: src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java:59

```
56
57 /** The secret. */
58 @Value("${dcrowd.token.secret}")
59 private String secret;
60
61 /** The expiration. */
62 @Value("${dcrowd.token.expiration}")
```



36 (Dead Code: Unused Field)

Low

Package: com.cts.dcrowd.rest.app.security.configuration

src/main/java/com/cts/dcrowd/rest/app/security/configuration/RestFilter.java, line

ow

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: allowedMethodsList

File: src/main/java/com/cts/dcrowd/rest/app/security/configuration/RestFilter.java:36

Taint Flags:

```
33
34  /** The allowed methods list. */
35  @Value("${ui.origin.allow.methods.aslist}")
36  private String allowedMethodsList;
37
38  /** The allowed origins. */
39  @Value("${ui.origin.uri.aslist}")
```

src/main/java/com/cts/dcrowd/rest/app/security/configuration/ WebSecurityConfiguration.java, line 59 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: IdapUrl

File: src/main/java/com/cts/dcrowd/rest/app/security/configuration/WebSecurityConfiguration.java:59

Taint Flags:

```
56
57  /** The ldap url. */
58  @Value("${ldap.url}")
59  private String ldapUrl;
60
61  /** The ldap base. */
62  @Value("${ldap.base}")
```

src/main/java/com/cts/dcrowd/rest/app/security/configuration/ WebSecurityConfiguration.java, line 63 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details



Low

Package: com.cts.dcrowd.rest.app.security.configuration

src/main/java/com/cts/dcrowd/rest/app/security/configuration/ WebSecurityConfiguration.java, line 63 (Dead Code: Unused Field)

Low

Sink: Field: IdapBase

File: src/main/java/com/cts/dcrowd/rest/app/security/configuration/WebSecurityConfiguration.java:63

Taint Flags:

```
60
61  /** The ldap base. */
62  @Value("${ldap.base}")
63  private String ldapBase;
64
65  /** The user dn. */
66  @Value("${ldap.userDn}")
```

Package: com.cts.dcrowd.rest.app.security.service.impl

src/main/java/com/cts/dcrowd/rest/app/security/service/impl/ SecurityServiceImpl.java, line 37 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)

Sink Details

Sink: Field: authenticationManager

File: src/main/java/com/cts/dcrowd/rest/app/security/service/impl/SecurityServiceImpl.java:37

Taint Flags:

```
34
35  /** The authentication manager. */
36  @Autowired
37  private AuthenticationManager authenticationManager;
38
39  @Autowired
40  private DcrowdUserDetailsService dcrowdUserDetailsService;
```

Package: com.cts.dcrowd.rest.app.service

src/main/java/com/cts/dcrowd/rest/app/service/UserActivityService.java, line 28 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)

Sink Details

Sink: Field: userActivityRepository

File: src/main/java/com/cts/dcrowd/rest/app/service/UserActivityService.java:28



Dead Code: Unused Field Low Package: com.cts.dcrowd.rest.app.service src/main/java/com/cts/dcrowd/rest/app/service/UserActivityService.java, line 28 Low (Dead Code: Unused Field) 25 /** The user activity repository. */ 26 27 @Autowired 28 private UserActivityRepository userActivityRepository; 29 30 /** 31

src/main/java/com/cts/dcrowd/rest/app/service/EmailService.java, line 72 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: emailRepository

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailService.java:72

Taint Flags:

```
69
70  /** The email repository. */
71  @Autowired
72  private EmailRepository emailRepository;
73
74  /** The free marker configuration. */
75  /*@Autowired
```

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 45 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: messageSource

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java:45

```
42
43 /** The message source. */
44 @Autowired
45 private MessageSource messageSource;
46
47 /** The badge service. */
```



Dead Code: Unused Field

Package: com.cts.dcrowd.rest.app.service

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 45
(Dead Code: Unused Field)

Low

48 @Autowired

src/main/java/com/cts/dcrowd/rest/app/service/UserService.java, line 77 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)

Sink Details

Sink: Field: messageSource

File: src/main/java/com/cts/dcrowd/rest/app/service/UserService.java:77

Taint Flags:

74
75 /** The message source. */
76 @Autowired
77 private MessageSource messageSource;
78
79 /** The badge service. */
80 @Autowired

src/main/java/com/cts/dcrowd/rest/app/service/MerchandiseService.java, line 45 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: mongoTemplate

File: src/main/java/com/cts/dcrowd/rest/app/service/MerchandiseService.java:45

Taint Flags:

42
43 /** The mongo template. */
44 @Autowired
45 private MongoTemplate mongoTemplate;
46
47
48 /**

src/main/java/com/cts/dcrowd/rest/app/service/EmailService.java, line 61 (Dead Code: Unused Field)

Low

Issue Details



Low

Package: com.cts.dcrowd.rest.app.service

src/main/java/com/cts/dcrowd/rest/app/service/EmailService.java, line 61 (Dead

Code: Unused Field)

Low

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: fromId

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailService.java:61

Taint Flags:

```
58
59  /** The from id. */
60  @Value("${app.from.id}")
61  private String fromId;
62
63  /** The from send url. */
64  @Value("${email.send.url}")
```

Package: com.cts.dcrowd.rest.app.service.helper

src/main/java/com/cts/dcrowd/rest/app/service/helper/CampaignServiceHelper.java, line 73 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: defectQueryProcessor

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/CampaignServiceHelper.java:73

Taint Flags:

```
70
71  /** The query processor. */
72  @Autowired
73  private DefectsQueryProcessor defectQueryProcessor;
74
75  /** The activity master service. */
76  @Autowired
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/ CustomerServiceHelper.java, line 47 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details



Low

Package: com.cts.dcrowd.rest.app.service.helper

src/main/java/com/cts/dcrowd/rest/app/service/helper/

CustomerServiceHelper.java, line 47 (Dead Code: Unused Field)

Low

Sink: Field: addressRepository

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/CustomerServiceHelper.java:47

Taint Flags:

```
44
45 /** The address repository. */
46 @Autowired
47 private AddressRepository addressRepository;
48
49 /** The company repository. */
50 @Autowired
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/

Low

ExternalServiceHelper.java, line 41 (Dead Code: Unused Field)

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: userActivityRepository

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/ExternalServiceHelper.java:41

Taint Flags:

```
38
39  /** The user activity repository. */
40  @Autowired
41  private UserActivityRepository userActivityRepository;
42
43  /**
44  * Creates or update external user.
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/ CustomerServiceHelper.java, line 63 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: userActivityRepository

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/CustomerServiceHelper.java:63

```
60
61 /** The user activity repository. */
62 @Autowired
```



Dead Code: Unused Field Package: com.cts.dcrowd.rest.app.service.helper src/main/java/com/cts/dcrowd/rest/app/service/helper/ CustomerServiceHelper.java, line 63 (Dead Code: Unused Field) 63 private UserActivityRepository userActivityRepository; 64 65 /** The master service. */ 66 @Autowired

src/main/java/com/cts/dcrowd/rest/app/service/helper/ CustomerServiceHelper.java, line 51 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: companyRepository

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/CustomerServiceHelper.java:51

Taint Flags:

```
48
49 /** The company repository. */
50 @Autowired
51 private CompanyRepository companyRepository;
52
53 /** The role repository. */
54 @Autowired
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/ ActivityMessageHandler.java, line 35 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: messageSource

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/ActivityMessageHandler.java:35

```
32
33  /** The message source. */
34  @Autowired
35  private MessageSource messageSource;
36
37  /** The security service. */
38  @Autowired
```



Low

Package: com.cts.dcrowd.rest.app.service.helper

src/main/java/com/cts/dcrowd/rest/app/service/helper/

ActivityMessageHandler.java, line 39 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: securityService

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/ActivityMessageHandler.java:39

Taint Flags:

36
37 /** The security service. */
38 @Autowired
39 private SecurityService securityService;
40
41 /** The user activity repository. */
42 @Autowired

src/main/java/com/cts/dcrowd/rest/app/service/helper/ ActivityMessageHandler.java, line 43 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: userActivityRepository

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/ActivityMessageHandler.java:43

Taint Flags:

40
41 /** The user activity repository. */
42 @Autowired
43 private UserActivityRepository userActivityRepository;
44
45
46 /**

src/main/java/com/cts/dcrowd/rest/app/service/helper/ ExternalServiceHelper.java, line 33 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details



Low

Package: com.cts.dcrowd.rest.app.service.helper

src/main/java/com/cts/dcrowd/rest/app/service/helper/

ExternalServiceHelper.java, line 33 (Dead Code: Unused Field)

Low

Sink: Field: externalUserRepository

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/ExternalServiceHelper.java:33

Taint Flags:

```
30
31 /** The external user repository. */
32 @Autowired
33 private ExternalUserRepository externalUserRepository;
34
35 /** The role repository. */
36 @Autowired
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/ CampaignServiceHelper.java, line 61 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: addressRepository

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/CampaignServiceHelper.java:61

Taint Flags:

```
58
59  /** The address repository. */
60  @Autowired
61  private AddressRepository addressRepository;
62
63  /** The badge repository. */
64  @Autowired
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/ ApplicationQueryProcessor.java, line 80 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: maxNewCrewMembers

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/ApplicationQueryProcessor.java:80

```
77
78  /** The ldap full url. */
79  @Value("${splashscreen.newestcrew.max.count}")
```



Dead Code: Unused Field Package: com.cts.dcrowd.rest.app.service.helper src/main/java/com/cts/dcrowd/rest/app/service/helper/ ApplicationQueryProcessor.java, line 80 (Dead Code: Unused Field) 80 private String maxNewCrewMembers; 81 82 /** The mongo template. */ 83 @Autowired

src/main/java/com/cts/dcrowd/rest/app/service/helper/ ApplicationQueryProcessor.java, line 92 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: cityRepository

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/ApplicationQueryProcessor.java:92

Taint Flags:

```
89
90  /** The city repository. */
91  @Autowired
92  private CityRepository cityRepository;
93
94  /** The campaign repository. */
95  @Autowired
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/ ApplicationQueryProcessor.java, line 84 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: mongoTemplate

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/ApplicationQueryProcessor.java:84

```
81
82  /** The mongo template. */
83  @Autowired
84  private MongoTemplate mongoTemplate;
85
86  /** The badge repository. */
87  @Autowired
```



Low

Package: com.cts.dcrowd.rest.defect.app.controller

src/main/java/com/cts/dcrowd/rest/defect/app/controller/DMLoginController.java, line 54 (Dead Code: Unused Field)

_ow

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: authType

File: src/main/java/com/cts/dcrowd/rest/defect/app/controller/DMLoginController.java:54

Taint Flags:

```
51
52 /** The auth type as db. */
53 @Value("${auth.type}")
54 private String authType;
55
56 /** The authentication manager. */
57 @Autowired
```

src/main/java/com/cts/dcrowd/rest/defect/app/controller/DMLoginController.java, line 58 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: authenticationManager

File: src/main/java/com/cts/dcrowd/rest/defect/app/controller/DMLoginController.java:58

Taint Flags:

```
55
56 /** The authentication manager. */
57 @Autowired
58 private AuthenticationManager authenticationManager;
59
60 /** The user service. */
61 @Autowired
```

Package: com.cts.dcrowd.rest.defect.app.jira.services

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 67 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)



Low

Package: com.cts.dcrowd.rest.defect.app.jira.services

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 67 (Dead Code: Unused Field)

Low

Sink Details

Sink: Field: securityService

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:67

Taint Flags:

```
64
65  /** The security service. */
66  @Autowired
67  private SecurityService securityService;
68
69  /** The dcrowd defect service. */
70  @Autowired
```

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 75 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: defectLayoutConfigService

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:75

Taint Flags:

```
72
73  /** The defect layout config service. */
74  @Autowired
75  private DefectLayoutConfigService defectLayoutConfigService;
76
77  /**
78  * Gets the jira authentication.
```

Package: com.cts.dcrowd.rest.defect.app.services.helper

src/main/java/com/cts/dcrowd/rest/defect/app/services/helper/ DefectsQueryProcessor.java, line 62 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: mongoTemplate

File: src/main/java/com/cts/dcrowd/rest/defect/app/services/helper/DefectsQueryProcessor.java:62



Low

Package: com.cts.dcrowd.rest.defect.app.services.helper

src/main/java/com/cts/dcrowd/rest/defect/app/services/helper/ DefectsQueryProcessor.java, line 62 (Dead Code: Unused Field)

Low

```
59
60  /** The mongo template. */
61  @Autowired
62  private MongoTemplate mongoTemplate;
63  /**
64  * Count defects by campaign.
65  *
```

Package: com.cts.dcrowd.rest.defect.app.services.impl

src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/ DcrowdDefectEntryServiceImpl.java, line 96 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality

Scan Engine: SCA (Structural)

Sink Details

Sink: Field: filePathUrl

File: src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/DcrowdDefectEntryServiceImpl.java:96

Taint Flags:

```
93 private String filePath;
94

95 @Value("${app.attachment.url}")
96 private String filePathUrl;
97

98 @Value("${app.filePath.seperator}")
99 private String filePathSeperator;
```

src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/ DefaultDefectServiceImpl.java, line 84 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Field: userActivityRepository

File: src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/DefaultDefectServiceImpl.java:84

```
81
82  /** The user activity repository. */
83  @Autowired
84  private UserActivityRepository userActivityRepository;
85
```



Dead Code: Unused Field

Package: com.cts.dcrowd.rest.defect.app.services.impl
src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/
DefaultDefectServiceImpl.java, line 84 (Dead Code: Unused Field)

Low

```
86  /** The campaign service. */
87  @Autowired
```

Package: com.cts.dcrowd.rest.defect.app.util

src/main/java/com/cts/dcrowd/rest/defect/app/util/TaskSchedulerService.java, line 23 (Dead Code: Unused Field)

Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)

Sink Details

Sink: Field: emailRepo

File: src/main/java/com/cts/dcrowd/rest/defect/app/util/TaskSchedulerService.java:23

```
20 private static final Logger LOGGER = Logger.getLogger(TaskSchedulerService.class);
21
22  @Autowired
23  private EmailRepository emailRepo;
24
25  /** The badge service. */
26  @Autowired
```



Dead Code: Unused Method (7 issues)

Abstract

This method is not reachable from any method outside the class.

Explanation

This method is never called or is only called from other dead code. **Example 1:** In the following class, the method dowork() can never be called.

```
public class Dead {
  private void doWork() {
    System.out.println("doing work");
  }
  public static void main(String[] args) {
    System.out.println("running Dead");
  }
}
```

Example 2: In the following class, two private methods call each other, but since neither one is ever invoked from anywhere else, they are both dead code.

```
public class DoubleDead {
  private void doTweedledee() {
    doTweedledumb();
  }
  private void doTweedledumb() {
    doTweedledee();
  }
  public static void main(String[] args) {
    System.out.println("running DoubleDead");
  }
}
```

(In this case it is a good thing that the methods are dead: invoking either one would cause an infinite loop.)

Recommendation

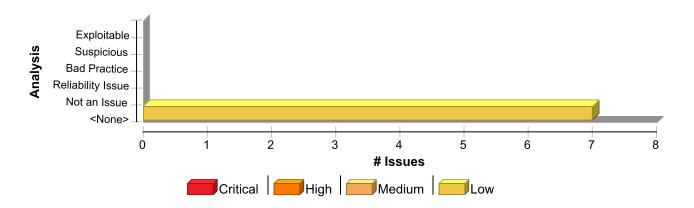
A dead method may indicate a bug in dispatch code. **Example 3:** If method is flagged as dead named getWitch() in a class that also contains the following dispatch method, it may be because of a copy-and-paste error. The 'w' case should return getWitch() not getMummy().

```
public ScaryThing getScaryThing(char st) {
   switch(st) {
    case 'm':
      return getMummy();
   case 'w':
      return getMummy();
   default:
      return getBlob();
   }
}
```

In general, you should repair or remove dead code. To repair dead code, execute the dead code directly or indirectly through a public method. Dead code causes additional complexity and maintenance burden without contributing to the functionality of the program.

Issue Summary





Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Dead Code: Unused Method	7	0	0	7
Total	7	0	0	7

Dead Code: Unused Method Low

Package: com.cts.dcrowd.rest.app.security

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 256 (Dead Code: Unused Method)

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Function: generateExpirationDate **Enclosing Method:** generateExpirationDate()

File: src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java:256

Taint Flags:

```
253 *
254 * @return the date
255 */
256 private Date generateExpirationDate() {
257 return new Date(System.currentTimeMillis() + Long.valueOf(this.expiration) * 1000);
258 }
259
```

Package: com.cts.dcrowd.rest.app.service.helper

src/main/java/com/cts/dcrowd/rest/app/service/helper/ ExternalServiceHelper.java, line 177 (Dead Code: Unused Method)

Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)

Sink Details



Dead Code: Unused Method

Low

Package: com.cts.dcrowd.rest.app.service.helper

src/main/java/com/cts/dcrowd/rest/app/service/helper/

ExternalServiceHelper.java, line 177 (Dead Code: Unused Method)

Low

Sink: Function: setUserActivity **Enclosing Method:** setUserActivity()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/ExternalServiceHelper.java:177

Taint Flags:

```
174 * @param user the user
175 * @return the user VO
176 */
177 private UserVO setUserActivity(UserVO user) {
178 UserActivityVO userActivity = new UserActivityVO();
179 userActivity.set_id(Util.generateMongoID());
180 userActivity.setUserName(Util.buildFullName(user));
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/ ExternalServiceHelper.java, line 194 (Dead Code: Unused Method)

Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: Function: validateAndSetRoleAndDesignation **Enclosing Method:** validateAndSetRoleAndDesignation()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/ExternalServiceHelper.java:194

Taint Flags:

```
191 * @param externalCustomerData the external customer data
192 * @return the user VO
193 */
194 private UserVO validateAndSetRoleAndDesignation(UserVO user, ExternalCustomerInvite
externalCustomerData) {
195 String inviteType = externalCustomerData.getInviteEventTag();
196 String designation = Role.valueOf(inviteType).getDisplayName();
197 UserRolesVO roles = roleRepository.findByRole(inviteType);
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/ ExternalServiceHelper.java, line 162 (Dead Code: Unused Method)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Function: validateAndSetEncodedPassword **Enclosing Method:** validateAndSetEncodedPassword()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/ExternalServiceHelper.java:162



Dead Code: Unused Method

Low

Package: com.cts.dcrowd.rest.app.service.helper

src/main/java/com/cts/dcrowd/rest/app/service/helper/

ExternalServiceHelper.java, line 162 (Dead Code: Unused Method)

Low

```
159 * @return the user VO
160 * @throws DcrowdException the dcrowd exception
161 */
162 private UserVO validateAndSetEncodedPassword(UserVO user, Map<String, Object>
requestParam) throws DcrowdException {
163   String decodedPassword =
Util.base64Decoder(Util.assertNullAndGetValue(Util.assertKeyExists(requestParam, "password")));
164   if(!Util.regexPatternMatchByType(decodedPassword, RegExType.PASSWORD)) {
165   throw new DcrowdException("Password should compliant to - Minimum 8 characters, 1
uppercase & 1 lowercase letter, 1 number");
```

Package: com.cts.dcrowd.rest.app.utils

src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 478 (Dead Code: Unused Method)

Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)

Sink Details

Sink: Function: stopWordRemove **Enclosing Method:** stopWordRemove()

File: src/main/java/com/cts/dcrowd/rest/app/utils/Util.java:478

Taint Flags:

```
475 * @param splitWords the split words
476 * @return the string[]
477 */
478 private static String[] stopWordRemove(String[] splitWords) {
479 return StopwordUtility.getInstance().removeStopWords(splitWords);
480 }
481
```

Package: com.cts.dcrowd.rest.defect.app.jira.services

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 583 (Dead Code: Unused Method)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Function: getDefect Enclosing Method: getDefect()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:583



Dead Code: Unused Method

Low

Package: com.cts.dcrowd.rest.defect.app.jira.services

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 583 (Dead Code: Unused Method)

Low

Taint Flags:

```
580 * @return the defect
581 * @throws DcrowdException the dcrowd exception
582 */
583 private DefectEntry getDefect(JsonNode rootNode, String defectName) throws
DcrowdException {
584
585 JsonNode defectNode = rootNode.path("defectList");
586 DefectEntry defectEntry = null;
```

Package: com.cts.dcrowd.rest.defect.app.services.impl

src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/ DefaultDefectServiceImpl.java, line 390 (Dead Code: Unused Method)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: Function: notifyCommenters **Enclosing Method:** notifyCommenters()

File: src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/DefaultDefectServiceImpl.java:390

```
387 * @param eventType the event type
388 * @throws DcrowdException the dcrowd exception
389 */
390 private void notifyCommenters(DefectEntry defectEntry, EventType eventType) throws
DcrowdException {
391 List<Comment> commentsList = defectEntry.getCommentsForDefects();
392 for(Comment comment : commentsList) {
393 UserVO user = userRepository.findByUsername(comment.getCommentedUserEmpId());
```



Denial of Service (3 issues)

Abstract

An attacker could cause the program to crash or otherwise become unavailable to legitimate users.

Explanation

Attackers may be able to deny service to legitimate users by flooding the application with requests, but flooding attacks can often be defused at the network layer. More problematic are bugs that allow an attacker to overload the application using a small number of requests. Such bugs allow the attacker to specify the quantity of system resources their requests will consume or the duration for which they will use them. **Example 1:** The following code allows a user to specify the amount of time for which a thread will sleep. By specifying a large number, an attacker may tie up the thread indefinitely. With a small number of requests, the attacker may deplete the application's thread pool.

```
int usrSleepTime = Integer.parseInt(usrInput);
Thread.sleep(usrSleepTime);
```

Example 2: The following code reads a String from a zip file. Because it uses the readLine() method, it will read an unbounded amount of input. An attacker may take advantage of this code to cause an OutOfMemoryException or to consume a large amount of memory so that the program spends more time performing garbage collection or runs out of memory during some subsequent operation.

```
InputStream zipInput = zipFile.getInputStream(zipEntry);
Reader zipReader = new InputStreamReader(zipInput);
BufferedReader br = new BufferedReader(zipReader);
String line = br.readLine();
```

Recommendation

Validate user input to ensure that it will not cause inappropriate resource utilization. **Example 3:** The following code allows a user to specify the amount of time for which a thread will sleep just as in Example 1, but only if the value is within reasonable bounds.

```
int usrSleepTime = Integer.parseInt(usrInput);
if (usrSleepTime >= SLEEP_MIN &&
    usrSleepTime <= SLEEP_MAX) {
   Thread.sleep(usrSleepTime);
} else {
   throw new Exception("Invalid sleep duration");
}</pre>
```

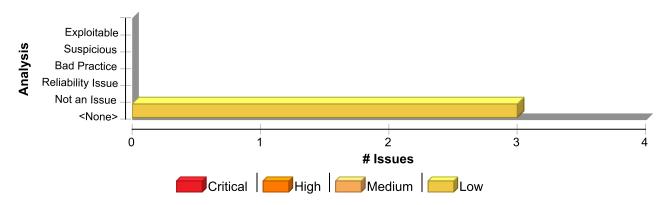
Example 4: The following code reads a String from a zip file just as in Example 2, but the maximum string length it will read is MAX_STR_LEN characters.

```
InputStream zipInput = zipFile.getInputStream(zipEntry);
Reader zipReader = new InputStreamReader(zipInput);
BufferedReader br = new BufferedReader(zipReader);
StringBuffer sb = new StringBuffer();
int intC;
while ((intC = br.read()) != -1) {
  char c = (char) intC;
  if (c == '\n') {
    break;
  }
  if (sb.length() >= MAX_STR_LEN) {
    throw new Exception("input too long");
  }
  sb.append(c);
```



```
}
String line = sb.toString();
```

Issue Summary



Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
Denial of Service	3	0	0	3
Total	3	0	0	3

Denial of Service Low

Package: com.cts.dcrowd.rest.app.utils

src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 329 (Denial of Service) Low

ow

Issue Details

Kingdom: Input Validation and Representation

Scan Engine: SCA (Semantic)

Sink Details

Sink: readLine()

Enclosing Method: decompressByteArray()

File: src/main/java/com/cts/dcrowd/rest/app/utils/Util.java:329

Taint Flags:

```
326 BufferedReader bf = new BufferedReader(new InputStreamReader(gis, "UTF-8"));
327
328 String line;
329 while ((line=bf.readLine())!=null) {
330 outStr += line;
331 }
332 } catch (Exception e) {
```

src/main/java/com/cts/dcrowd/rest/app/utils/StopwordUtility.java, line 60 (Denial of Service)

Low

Issue Details

Kingdom: Input Validation and Representation

Scan Engine: SCA (Semantic)



Denial of Service Low

Package: com.cts.dcrowd.rest.app.utils

src/main/java/com/cts/dcrowd/rest/app/utils/StopwordUtility.java, line 60 (Denial of Service)

Low

Sink Details

Sink: readLine()

Enclosing Method: loadStopList()

File: src/main/java/com/cts/dcrowd/rest/app/utils/StopwordUtility.java:60

Taint Flags:

```
57 try (BufferedReader br = new BufferedReader(
58 new InputStreamReader(StopwordUtility.class.getResourceAsStream("/stoplist.txt")))) {
59  String line;
60  while ((line = br.readLine()) != null) {
61  String stopword = line.trim();
62  if (stopword.length() > 0) {
63  stoplist.add(stopword);
```

src/main/java/com/cts/dcrowd/rest/app/utils/EmailDomainFilterUtility.java, line 58 (Denial of Service)

Low

Issue Details

Kingdom: Input Validation and Representation

Scan Engine: SCA (Semantic)

Sink Details

Sink: readLine()

Enclosing Method: loadDomainList()

File: src/main/java/com/cts/dcrowd/rest/app/utils/EmailDomainFilterUtility.java:58

```
55  try (BufferedReader br = new BufferedReader(
56  new InputStreamReader(EmailDomainFilterUtility.class.getResourceAsStream("/
domain_filter.txt")))) {
57  String line;
58  while ((line = br.readLine()) != null) {
59  String stopword = line.trim();
60  if (stopword.length() > 0) {
61  emailDomainList.add(stopword);
```



J2EE Bad Practices: Leftover Debug Code (2 issues)

Abstract

Debug code can create unintended entry points in a deployed web application.

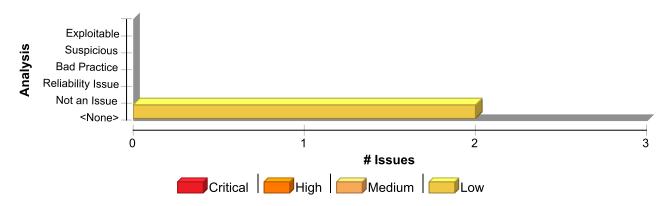
Explanation

A common development practice is to add "back door" code specifically designed for debugging or testing purposes that is not intended to be shipped or deployed with the application. When this sort of debug code is accidentally left in the application, the application is open to unintended modes of interaction. These back door entry points create security risks because they are not considered during design or testing and fall outside of the expected operating conditions of the application. The most common example of forgotten debug code is a main() method appearing in a web application. Although this is an acceptable practice during product development, classes that are part of a production J2EE application should not define a main().

Recommendation

Remove debug code before deploying a production version of an application. Regardless of whether a direct security threat can be articulated, it is unlikely that there is a legitimate reason for such code to remain in the application after the early stages of development.

Issue Summary



Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
J2EE Bad Practices: Leftover Debug Code	2	0	0	2
Total	2	0	0	2

J2EE Bad Practices: Leftover Debug Code	Low
Package: com.cts.dcrowd.rest.app	
src/main/java/com/cts/dcrowd/rest/app/ApplicationStarter.java, line 29 (J2EE Bad Practices: Leftover Debug Code)	Low

Issue Details

Kingdom: Encapsulation **Scan Engine**: SCA (Structural)



J2EE Bad Practices: Leftover Debug Code

Low

Package: com.cts.dcrowd.rest.app

src/main/java/com/cts/dcrowd/rest/app/ApplicationStarter.java, line 29 (J2EE Bad Practices: Leftover Debug Code)

Low

Sink Details

Sink: Function: main Enclosing Method: main()

File: src/main/java/com/cts/dcrowd/rest/app/ApplicationStarter.java:29

Taint Flags:

```
26  *
27  * @param args the arguments
28  */
29  public static void main(String[] args) {
30   SpringApplication.run(new Object[] { ApplicationStarter.class }, args);
31  }
32
```

Package: com.cts.dcrowd.rest.app.util

src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java, line 32 (J2EE Bad Practices: Leftover Debug Code)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Structural)

Sink Details

Sink: Function: main Enclosing Method: main()

File: src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java:32

```
29 * @param args the arguments
30 * @return the JSON object
31 */
32 public static void main(String[] args) {
33  String encrypted = generateBlowFishEncryptValue("password");
34  // System.out.println(generateBlowFishDecryptValue("Y3isgEgqkQUyh525Wy5M+w=="));
35
```



Null Dereference (5 issues)

Abstract

The program can potentially dereference a null pointer, thereby causing a null pointer exception.

Explanation

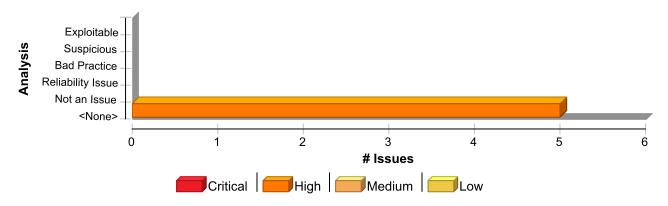
Null pointer exceptions usually occur when one or more of the programmer's assumptions is violated. A dereference-after-store error occurs when a program explicitly sets an object to null and dereferences it later. This error is often the result of a programmer initializing a variable to null when it is declared. Most null pointer issues result in general software reliability problems, but if attackers can intentionally trigger a null pointer dereference, they can use the resulting exception to bypass security logic or to cause the application to reveal debugging information that will be valuable in planning subsequent attacks. **Example:** In the following code, the programmer explicitly sets the variable foo to null. Later, the programmer dereferences foo before checking the object for a null value.

```
Foo foo = null;
...
foo.setBar(val);
...
}
```

Recommendation

Implement careful checks before dereferencing objects that might be null. When possible, abstract null checks into wrappers around code that manipulates resources to ensure that they are applied in all cases and to minimize the places where mistakes can occur.

Issue Summary



Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
Null Dereference	5	0	0	5
Total	5	0	0	5



Null Dereference High

Package: com.cts.dcrowd.rest.app.service

src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java, line 260 (Null Dereference)

High

Issue Details

Kingdom: Code Quality

Scan Engine: SCA (Control Flow)

Sink Details

Sink: Dereferenced: campaignFromDb

Enclosing Method: saveCampaignWithStatus()

File: src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java:260

Taint Flags:

src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java, line 263 (Null Dereference)

High

Issue Details

Kingdom: Code Quality

Scan Engine: SCA (Control Flow)

Sink Details

Sink: Dereferenced: campaignFromDb

Enclosing Method: saveCampaignWithStatus()

File: src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java:263



Null Dereference

Package: com.cts.dcrowd.rest.app.service
src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java, line 263
(Null Dereference)

High

```
campaign.getName()));
```

src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java, line 305 (Null Dereference)

High

Issue Details

Kingdom: Code Quality

Scan Engine: SCA (Control Flow)

Sink Details

Sink: Dereferenced : campaignFromDb

Enclosing Method: saveCampaignWithStatus()

File: src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java:305

Taint Flags:

```
302 if (!Util.isEmpty(campaign.getImageData().getImageData())) {
303  if (!Util.isEmpty(campaign.get_id())) {
304   if (!Util.isEmpty(campaignFromDb)) {
305    if (!Util.isEmpty(campaignFromDb.getImageData().getImageFilePath())) {
306    Util.writeFileToFileServer(null, null, campaignFromDb.getImageData().getImageFilePath(),
307    true);
308 }
```

src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java, line 322 (Null Dereference)

High

Issue Details

Kingdom: Code Quality

Scan Engine: SCA (Control Flow)

Sink Details

Sink: Dereferenced: campaignFromDb

Enclosing Method: saveCampaignWithStatus()

File: src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java:322

```
319 }
320 } else {
321 if (!Util.isEmpty(campaignFromDb)) {
322 campaign.setImageData(campaignFromDb.getImageData());
323 }
324 }
325
```



Null Dereference

High

Package: com.cts.dcrowd.rest.defect.app.services.impl

src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/
DcrowdDefectEntryServiceImpl.java, line 696 (Null Dereference)

High

Issue Details

Kingdom: Code Quality

Scan Engine: SCA (Control Flow)

Sink Details

Sink: Dereferenced: user

Enclosing Method: cloneDefectEntriesForExport()

File: src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/DcrowdDefectEntryServiceImpl.java:696

```
693  // TODO Auto-generated catch block
694  e.printStackTrace();
695  }
696  cloneDefectMap.put("LOGGEDEMAILID", user.getEmail());
697  cloneDefectMap.put("USERLOCATION", defectEntry.getUserLocation());
698  if(!Util.isEmpty(defectEntry.getDeAttachments())) {
699   defectEntry.getDeAttachments().forEach((deAttachment) -> {
```



Password Management: Null Password (1 issue)

Abstract

Null passwords can compromise security.

Explanation

Assigning null to password variables is a bad idea because it can allow attackers to bypass password verification or might indicate that resources are protected by an empty password. **Example 1:** The code below initializes a password variable to null, attempts to read a stored value for the password, and compares it against a user-supplied value.

```
String storedPassword = null;
String temp;

if ((temp = readPassword()) != null) {
    storedPassword = temp;
}

if(Utils.verifyPassword(userPassword, storedPassword))
    // Access protected resources
    ...
}
```

If readPassword() fails to retrieve the stored password due to a database error or another problem, then an attacker could trivially bypass the password check by providing a null value for userPassword. In the mobile environment, password management is especially important given that there is such a high chance of device loss. **Example 2:** The code below initializes username and password variables to null, reads credentials from an Android WebView store if they have not been previously rejected by the server for the current request, and uses them to setup authentication for viewing protected pages.

Similar to Example 1, if useHttpAuthUsernamePassword() returns false, an attacker will be able to view protected pages by supplying a null password.

Recommendation

Always read stored password values from encrypted, external resources and assign password variables meaningful values. Ensure that sensitive resources are never protected with empty or null passwords. For Android, as well as any other platform that uses SQLite database, SQLCipher is a good alternative. SQLCipher is an extension to the SQLite database that provides transparent 256-bit AES encryption of

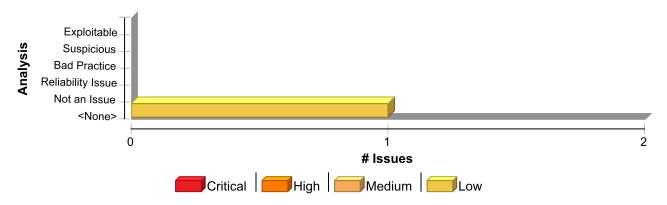


database files. Thus, credentials can be stored in an encrypted database. **Example 3:** The code below demonstrates how to integrate SQLCipher into an Android application after downloading the necessary binaries, and store credentials into the database file.

```
import net.sqlcipher.database.SQLiteDatabase;
...
    SQLiteDatabase.loadLibs(this);
    File dbFile = getDatabasePath("credentials.db");
    dbFile.mkdirs();
    dbFile.delete();
    SQLiteDatabase db = SQLiteDatabase.openOrCreateDatabase(dbFile,
"credentials", null);
    db.execSQL("create table credentials(u, p)");
    db.execSQL("insert into credentials(u, p) values(?, ?)", new Object[]
{username, password});
```

Note that references to android.database.sqlite.SQLiteDatabase are substituted with those of net.sqlcipher.database.SQLiteDatabase. To enable encryption on the WebView store, WebKit has to be re-compiled with the sqlcipher.so library.

Issue Summary



Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Password Management: Null Password	1	0	0	1
Total	1	0	0	1

Password Management: Null Password	Low
Package: com.cts.dcrowd.rest.app.security	
src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 127 (Password Management: Null Password)	Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: VariableAccess: password

Enclosing Method: getPasswordFromBase64Token()

File: src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java:127



Password Management: Null Password

Low

Package: com.cts.dcrowd.rest.app.security

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 127 (Password Management: Null Password)

Low

```
124 try {
125  password = new String(Base64.getDecoder().decode(token),UTF8).split(">:<")[1];
126  } catch (Exception e) {
127  password = null;
128  LOGGER.debug("Exception : {} \n Stack Trace : {}", e.getMessage(),
String.valueOf(e.getStackTrace()));
129  }
130  return password;</pre>
```



Password Management: Password in Comment (53 issues)

Abstract

Storing passwords or password details in plain text anywhere in the system or system code may compromise system security in a way that cannot be easily remedied.

Explanation

It is never a good idea to hardcode a password. Storing password details within comments is equivalent to hardcoding passwords. Not only does it allow all of the project's developers to view the password, it also makes fixing the problem extremely difficult. After the code is in production, the password is now leaked to the outside world and cannot be protected or changed without patching the software. If the account protected by the password is compromised, the owners of the system must choose between security and availability. **Example:** The following comment specifies the default password to connect to a database:

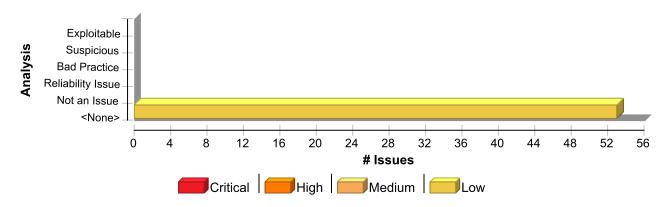
```
// Default username for database connection is "scott"
// Default password for database connection is "tiger"
```

This code will run successfully, but anyone who has access to it will have access to the password. After the program has shipped, there is likely no way to change the database user "scott" with a password of "tiger" unless the program is patched. An employee with access to this information can use it to break into the system.

Recommendation

Passwords should never be hardcoded and should generally be obfuscated and managed in an external source. Storing passwords in plain text anywhere on the system allows anyone with sufficient permissions to read and potentially misuse the password.

Issue Summary



Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
Password Management: Password in Comment	53	0	0	53
Total	53	0	0	53



Password Management: Password in Comment

Low

Package: .com.cts.dcrowd.rest.app.controller

src/main/java/com/cts/dcrowd/rest/app/controller/ExternalController.java, line 78 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/controller/ExternalController.java:78

Taint Flags:

```
75 }
76 }
77 
78 /**
79 * Send Mail for Password Reset
80 *
81 * @param external user EmailID
```

src/main/java/com/cts/dcrowd/rest/app/controller/LoginController.java, line 103 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/controller/LoginController.java:103

Taint Flags:

```
100 String username = securityService.getAutheticatedUserName(basicAuthToken);
101 String password = securityService.getAutheticatedPassword(basicAuthToken);
102 //String username = securityService.getAutheticatedUser(basicAuthToken, 0);
103 //String password = securityService.getAutheticatedUser(basicAuthToken, 1);
104
105 user = userService.findByUsername(username);
106 boolean isNewUser = Util.isEmpty(user);
```

src/main/java/com/cts/dcrowd/rest/app/controller/ExternalController.java, line 97 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details



Password Management: Password in Comment

Low

Package: .com.cts.dcrowd.rest.app.controller

src/main/java/com/cts/dcrowd/rest/app/controller/ExternalController.java, line 97 (Password Management: Password in Comment)

Low

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/controller/ExternalController.java:97

Taint Flags:

```
94 }
95 return buildSuccessResponse(status);
96 }
97 /**
98 * Reset Password for externals
99 *
100 * @param external user EmailID
```

src/main/java/com/cts/dcrowd/rest/app/controller/LoginController.java, line 130 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/controller/LoginController.java:130

Taint Flags:

```
127  return ResponseEntity.badRequest().body("Invalid Authentication source : User not found
in Database");
128  }*/
129
130  //securityService.doAuthenticateExternalCustomer(username, password, user);
131  user = userService.setAuthTokenToUser(device, user);
132  user.setPhoneNumber(null);
133
```

Package: .com.cts.dcrowd.rest.app.domain

src/main/java/com/cts/dcrowd/rest/app/domain/ExternalUserVO.java, line 295 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features Scan Engine: SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/domain/ExternalUserVO.java:295



Password Management: Password in Comment Package: .com.cts.dcrowd.rest.app.domain src/main/java/com/cts/dcrowd/rest/app/domain/ExternalUserVO.java, line 295 (Password Management: Password in Comment) Low Low 292 this.modifiedDate = modifiedDate; 293 } 294 295 /** 296 * @return the lastPasswordReset 297 */

src/main/java/com/cts/dcrowd/rest/app/domain/ExternalUserVO.java, line 203 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

298 public Date getLastPasswordReset() {

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/domain/ExternalUserVO.java:203

Taint Flags:

```
200 return password;
201 }
202
203 /**
204 * @param password the password to set
205 */
206 @JsonProperty
```

src/main/java/com/cts/dcrowd/rest/app/domain/ExternalUserVO.java, line 471 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/domain/ExternalUserVO.java:471

```
468 return customerPassword;
469 }
470
471 /**
472 * @param customerPassword the customerPassword to set
473 */
```



Password Management: Password in Comment

Low

Package: .com.cts.dcrowd.rest.app.domain

src/main/java/com/cts/dcrowd/rest/app/domain/ExternalUserVO.java, line 471 (Password Management: Password in Comment)

Low

474 @JsonProperty

src/main/java/com/cts/dcrowd/rest/app/domain/UserVO.java, line 1053 (Password Management: Password in Comment)

_ow

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/domain/UserVO.java:1053

Taint Flags:

```
1050 return customerPassword;
1051 }
1052
1053 /**
1054 * @param customerPassword the customerPassword to set
1055 */
1056 @JsonProperty
```

src/main/java/com/cts/dcrowd/rest/app/domain/UserVO.java, line 363 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/domain/UserVO.java:363

Taint Flags:

```
360 @Override
361 @JsonIgnore
362 public String getPassword() {
363  //return Util.generateBlowFishDecryptValue(password);
364  return "password";
365
366 }
```

src/main/java/com/cts/dcrowd/rest/app/domain/ExternalUserVO.java, line 50 (Password Management: Password in Comment)

Low

Issue Details



Password Management: Password in Comment

Low

Package: .com.cts.dcrowd.rest.app.domain

src/main/java/com/cts/dcrowd/rest/app/domain/ExternalUserVO.java, line 50 (Password Management: Password in Comment)

Low

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/domain/ExternalUserVO.java:50

Taint Flags:

```
47  /** The last login. */
48  private Date lastLogin;
49
50  /** The password. */
51  @JsonProperty(value="reg_password")
52  private String password;
53
```

src/main/java/com/cts/dcrowd/rest/app/domain/UserVO.java, line 80 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/domain/UserVO.java:80

Taint Flags:

```
77  /** The is registered. */
78  private boolean isRegistered;
79
80  /** The password. */
81  private String password;
82
83  /** The auth token. */
```

src/main/java/com/cts/dcrowd/rest/app/domain/UserVO.java, line 368 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/domain/UserVO.java:368



Password Management: Password in Comment Package: .com.cts.dcrowd.rest.app.domain src/main/java/com/cts/dcrowd/rest/app/domain/UserVO.java, line 368 (Password Management: Password in Comment)

Taint Flags:

```
365
366 }
367
368 /**
369 * Sets the password.
370 *
371 * @param password the new password
```

src/main/java/com/cts/dcrowd/rest/app/domain/UserVO.java, line 498 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/domain/UserVO.java:498

Taint Flags:

```
495
496
497
498 /**
499 * Gets the last password reset.
500 *
501 * @return the last password reset
```

src/main/java/com/cts/dcrowd/rest/app/domain/ExternalUserVO.java, line 302 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/domain/ExternalUserVO.java:302

```
299 return lastPasswordReset;
300 }
301
302 /**
```



Password Management: Password in Comment Package: .com.cts.dcrowd.rest.app.domain src/main/java/com/cts/dcrowd/rest/app/domain/ExternalUserVO.java, line 302 (Password Management: Password in Comment) 303 * @param lastPasswordReset the lastPasswordReset to set 304 */ 305 public void setLastPasswordReset (Date lastPasswordReset) {

src/main/java/com/cts/dcrowd/rest/app/domain/UserVO.java, line 507 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/domain/UserVO.java:507

Taint Flags:

```
504 return lastPasswordReset;
505 }
506
507 /**
508 * Sets the last password reset.
509 *
510 * @param lastPasswordreset the new last password reset
```

src/main/java/com/cts/dcrowd/rest/app/domain/ExternalUserVO.java, line 72 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/domain/ExternalUserVO.java:72

```
69  /** The organization. */
70  private String organization;
71
72  /** The last password reset. */
73  private Date lastPasswordReset;
74
75  /** The nominated campaign. */
```



Low

Package: .com.cts.dcrowd.rest.app.domain

src/main/java/com/cts/dcrowd/rest/app/domain/UserVO.java, line 104 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/domain/UserVO.java:104

Taint Flags:

```
101  /** The company. */
102  private String companyId;
103
104  /** The last password reset. */
105  private Date lastPasswordReset;
106
107  /** The user badges. */
```

src/main/java/com/cts/dcrowd/rest/app/domain/UserVO.java, line 44 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/domain/UserVO.java:44

Taint Flags:

```
41  /** The Constant MAX_LENGTH_USERNAME. */
42  public static final int MAX_LENGTH_USERNAME = 100;
43
44  /** The Constant MAX_LENGTH_PASSWORD. */
45  public static final int MAX_LENGTH_PASSWORD = 25;
46
47  /** The username. */
```

src/main/java/com/cts/dcrowd/rest/app/domain/ExternalUserVO.java, line 195 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details



Low

Package: .com.cts.dcrowd.rest.app.domain

src/main/java/com/cts/dcrowd/rest/app/domain/ExternalUserVO.java, line 195 (Password Management: Password in Comment)

Low

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/domain/ExternalUserVO.java:195

Taint Flags:

```
192 this.lastLogin = lastLogin;
193 }
194
195  /**
196 * @return the password
197 */
198 @JsonIgnore
```

src/main/java/com/cts/dcrowd/rest/app/domain/ExternalUserVO.java, line 108 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/domain/ExternalUserVO.java:108

Taint Flags:

```
105  /** The invited users. */
106  private List<String> invitedUsers = new ArrayList<String>();
107
108  /** The Customer password */
109  private String customerPassword;
110
111  /**
```

src/main/java/com/cts/dcrowd/rest/app/domain/UserVO.java, line 173 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/domain/UserVO.java:173

```
170  /** The is eligible for gonein 60 seconds badge. */
171  private boolean isEligibleForGonein60SecondsBadge;
172
```



Password Management: Password in Comment Package: .com.cts.dcrowd.rest.app.domain src/main/java/com/cts/dcrowd/rest/app/domain/UserVO.java, line 173 (Password Management: Password in Comment) Low 173 /** The Customer password */ 174 private String customerPassword; 175 176

src/main/java/com/cts/dcrowd/rest/app/domain/UserVO.java, line 357 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/domain/UserVO.java:357

Taint Flags:

```
354 this.isRegistered = isRegistered;
355 }
356
357 /* (non-Javadoc)
358 * @see org.springframework.security.core.userdetails.UserDetails#getPassword()
359 */
360 @Override
```

src/main/java/com/cts/dcrowd/rest/app/domain/ExternalUserVO.java, line 463 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/domain/ExternalUserVO.java:463

```
460 this.invitedUsers = invitedUsers;
461 }
462
463 /**
464 * @return the customerPassword
465 */
466 @JsonIgnore
```



Low

Package: .com.cts.dcrowd.rest.app.domain

src/main/java/com/cts/dcrowd/rest/app/domain/UserVO.java, line 1045 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/domain/UserVO.java:1045

Taint Flags:

```
1042 this.moderatingCampaign = moderatingCampaign;
1043 }
1044
1045 /**
1046 * @return the customerPassword
1047 */
1048 @JsonIgnore
```

Package: .com.cts.dcrowd.rest.app.repository

src/main/java/com/cts/dcrowd/rest/app/repository/UserRepository.java, line 40 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/repository/UserRepository.java:40

Taint Flags:

```
37 */
38 UserVO findByEmail(String email);
39
40 /**
41 * Find by password.
42 *
43 * @param password the password
```

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 105 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)



Low

Package: .com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 105 (Password Management: Password in Comment)

Low

Sink Details

Sink: Comment

File: src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java:105

Taint Flags:

```
public void setup() throws Exception {
  this.mockMvc = MockMvcBuilders.webAppContextSetup(this.wac).build();

   /*int i;

for (i = 65; i <= 67; i++) {
   String name = String.valueOf((char)(i));
   createUser(name, name, name);
}</pre>
```

Package: .com.cts.dcrowd.rest.app.security

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 133 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java:133

Taint Flags:

```
130 return password;
131 }
132
133 /**
134 * Gets the username or password from BlowFish token.
135 *
136 * @param token the token
```

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 341 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java:341



Password Management: Password in Comment Low Package: .com.cts.dcrowd.rest.app.security src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 341 Low (Password Management: Password in Comment) 338 .compact(); 339 } 340 341 /** 342 * Can token be refreshed. 343 * 344 * @param token the token

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 114 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java:114

Taint Flags:

```
111 }
112
113
114 /**
115 * Gets the password from base 64 token.
116 *
117 * @param token the token
```

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 271 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java:271

```
268 return expiration.before(this.generateCurrentDate());
269 }
270
271 /**
272 * Checks if is created before last password reset.
273 *
```



Low

Package: .com.cts.dcrowd.rest.app.security

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 271 (Password Management: Password in Comment)

Low

274 * @param created the created

Package: .com.cts.dcrowd.rest.app.security.configuration

src/main/java/com/cts/dcrowd/rest/app/security/configuration/
MongoSecurityConfiguration.java, line 58 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/security/configuration/MongoSecurityConfiguration.java:58

Taint Flags:

```
55  @Value("${spring.data.mongodb.username}")
56  private String username;
57
58  /** The password. */
59  @Value("${spring.data.mongodb.password}")
60  private String password;
61
```

src/main/java/com/cts/dcrowd/rest/app/security/configuration/ WebSecurityConfiguration.java, line 69 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/security/configuration/WebSecurityConfiguration.java:69

```
66 @Value("${ldap.userDn}")
67 private String userDn;
68
69 /** The password. */
70 @Value("${ldap.password}")
71 private String password;
72
```



Low

Package: .com.cts.dcrowd.rest.app.security.service

src/main/java/com/cts/dcrowd/rest/app/security/service/SecurityService.java, line 54 (Password Management: Password in Comment)

_ow

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/security/service/SecurityService.java:54

Taint Flags:

51 */

52 public String getAutheticatedUserName(String basicAuthToken) throws DcrowdException;

53

54 /**

55 * Gets the autheticated password.

56 *

57 * @param basicAuthToken the basic auth token

src/main/java/com/cts/dcrowd/rest/app/security/service/SecurityService.java, line 72 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/security/service/SecurityService.java:72

Taint Flags:

69 */

70 public String getAutheticatedUser(String basicAuthToken, int index) throws DcrowdException;

71

72 /**

73 * Do authenticate external customer.

74 *

'5 * @param username the username

Package: .com.cts.dcrowd.rest.app.security.service.impl

src/main/java/com/cts/dcrowd/rest/app/security/service/impl/ SecurityServiceImpl.java, line 93 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)



Low

Package: .com.cts.dcrowd.rest.app.security.service.impl

src/main/java/com/cts/dcrowd/rest/app/security/service/impl/ SecurityServiceImpl.java, line 93 (Password Management: Password in Comment)

Low

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/security/service/impl/SecurityServiceImpl.java:93

Taint Flags:

```
90 String username=getAutheticatedUserName(basicAuthToken);
91 String password=getAutheticatedPassword(basicAuthToken);
92  //String username=getAutheticatedUser(basicAuthToken, 0);
93  //String password=getAutheticatedUser(basicAuthToken, 1);
94  LOGGER.debug("Inside login request username : {} and password {} ", username, password);
95  
96  Authentication authentication = this.authenticationManager.authenticate(
```

src/main/java/com/cts/dcrowd/rest/app/security/service/impl/ SecurityServiceImpl.java, line 118 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/security/service/impl/SecurityServiceImpl.java:118

Taint Flags:

```
115  return tokenUtils.getUsernameFromBase64Token(basicAuthToken);
116  }
117
118  /* (non-Javadoc)
119  * @see
com.cts.dcrowd.rest.app.security.service.SecurityService#getAutheticatedPassword(java.lang.Strin.
120  */
121  @Override
```

Package: .com.cts.dcrowd.rest.app.service

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 349 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment



Password Management: Password in Comment Package: .com.cts.dcrowd.rest.app.service src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 349 Low

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java:349 **Taint Flags:**

```
346 }
347 }
348
349 /**
350 * External Password reset.
351 *
352 * @param customerEmailId the customer email id
```

src/main/java/com/cts/dcrowd/rest/app/service/UserService.java, line 209 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

(Password Management: Password in Comment)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/service/UserService.java:209

Taint Flags:

```
206 }
207
208
209 /**
210 * Find by password.
211 *
212 * @param password the password
```

src/main/java/com/cts/dcrowd/rest/app/service/ExternalService.java, line 212 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/service/ExternalService.java:212

```
209  return isValidUser;
210  }
211
212  /**
```



Password Management: Password in Comment Package: .com.cts.dcrowd.rest.app.service src/main/java/com/cts/dcrowd/rest/app/service/ExternalService.java, line 212 (Password Management: Password in Comment) Low 213 * password reset. 214 * 215 * @param userId the user id

src/main/java/com/cts/dcrowd/rest/app/service/ExternalService.java, line 191 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/service/ExternalService.java:191

Taint Flags:

```
188  return true;
189 }
190

191  /**
192  * send mail for password reset.
193  *
194  * @param userId the user id
```

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 79 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java:79

```
76  @Value("${email.templates.registration.acknowledgement}")
77  private String registrationAcknowldgement;
78
79  /** The reset password. */
80  @Value("${email.templates.reset.password}")
81  private String resetPasswordTemplate;
82
```



Password Management: Password in Comment	Low
Package: .com.cts.dcrowd.rest.app.service.helper	
src/main/java/com/cts/dcrowd/rest/app/service/helper/ CustomerServiceHelper.java, line 106 (Password Management: Password in Comment)	Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/CustomerServiceHelper.java:106

Taint Flags:

```
103 return user;
104 }
105
106 /**
107 * Validate and set password.
108 *
109 * @param user the password
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/ ExternalServiceHelper.java, line 154 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/ExternalServiceHelper.java:154

Taint Flags:

```
151  return user;
152 }
153
154  /**
155  * Validate and set password.
156  *
157  * @param user the password
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/ ExternalServiceHelper.java, line 74 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)



Password Management: Password in Comment Package: .com.cts.dcrowd.rest.app.service.helper src/main/java/com/cts/dcrowd/rest/app/service/helper/ ExternalServiceHelper.java, line 74 (Password Management: Password in Comment)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/ExternalServiceHelper.java:74

Taint Flags:

```
71
72  // 1. Set User full name
73  user.setUserFullName(String.valueOf(new
StringBuilder().append(user.getFirstname()).append(" ").append(user.getLastname())));
74  // 2. Set Password(Encrypted)
75  //user = validateAndSetEncodedPassword(user, requestParam);
76  // 3. Set Role to the User
77  user = setRoleToDesignation(user, Role.ROLE CROWD TESTER.getMessage());
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/ ExternalServiceHelper.java, line 75 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/ExternalServiceHelper.java:75

Taint Flags:

```
72  // 1. Set User full name
73  user.setUserFullName(String.valueOf(new
StringBuilder().append(user.getFirstname()).append(" ").append(user.getLastname())));
74  // 2. Set Password(Encrypted)
75  //user = validateAndSetEncodedPassword(user, requestParam);
76  // 3. Set Role to the User
77  user = setRoleToDesignation(user, Role.ROLE_CROWD_TESTER.getMessage());
78  // 4. Set UserActivity
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/ CustomerServiceHelper.java, line 80 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details



Password Management: Password in Comment Package: .com.cts.dcrowd.rest.app.service.helper src/main/java/com/cts/dcrowd/rest/app/service/helper/ CustomerServiceHelper.java, line 80 (Password Management: Password in Comment)

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/CustomerServiceHelper.java:80

Taint Flags:

```
77 */
78 public UserVO buildCustomerUserObject(UserVO user, Map<String, Object> requestParam,
ExternalCustomerInvite externalCustomerData) throws DcrowdException {
79
80 // 0. Set Uername - Password(Encrypted)
81 user.setEmail(user.getUsername());
82 user.setFirstname(externalCustomerData.getFirstname());
83 user.setLastname(externalCustomerData.getLastname());
```

Package: .com.cts.dcrowd.rest.app.util

src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java, line 150 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java:150

Taint Flags:

```
147  }
148  }
149

150  /**
151  * Convert base 64.
152  *
153  * @param username the username
```

src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java, line 36 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features Scan Engine: SCA (Structural)

Sink Details

Sink: Comment

File: src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java:36



Low

Package: .com.cts.dcrowd.rest.app.util

src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java, line 36 (Password Management: Password in Comment)

Low

```
33 String encrypted = generateBlowFishEncryptValue("password");
34  // System.out.println(generateBlowFishDecryptValue("Y3isgEgqkQUyh525Wy5M+w=="));
35
36  /* String encodedValue = base64Encoder("password".getBytes());
37  String decodedValue = base64Decoder(encodedValue);
38  System.out.println(decodedValue);*/
39 }
```

Package: .com.cts.dcrowd.rest.defect.app.controller

src/main/java/com/cts/dcrowd/rest/defect/app/controller/DMLoginController.java, line 101 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/defect/app/controller/DMLoginController.java:101

Taint Flags:

```
98
99 SecurityContextHolder.getContext().setAuthentication(authentication);
100 UserVO user = new UserVO();
101 // Reload password post-authentication so we can generate token
102 try
103 {
104 user = userService.findByUsername(username);
```

Package: .com.cts.dcrowd.rest.defect.app.jira.services

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 92 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:92

```
89  // securityService.getAutheticatedUserName(rootNode.path("credentials").asText());
90  String userName = getUserName(rootNode);
91  String password = getPassword(rootNode);
```



Low

Package: .com.cts.dcrowd.rest.defect.app.jira.services

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 92 (Password Management: Password in Comment)

Low

```
92  // String password =
93  // securityService.getAutheticatedPassword(rootNode.path("credentials").asText());
94
95  HttpHost targetHost = new HttpHost(rootNode.path("domainName").asText(), 8080, "http");
```

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 392 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:392

Taint Flags:

```
389  HttpEntity entity = new StringEntity(issueObj.toString(), ContentType.APPLICATION_JSON);
390  httpPost.setEntity(entity);
391  // String encoding =
392  // Base64.encodeBase64String("vmohandass:password".getBytes());
393  // httpGet.setHeader("Authorization", "Basic " + encoding);
394
395  HttpResponse httpResponse = httpClient.execute(targetHost, httpPost, context);
```

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 93 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:93

```
90 String userName = getUserName(rootNode);
91 String password = getPassword(rootNode);
92 // String password =
93 // securityService.getAutheticatedPassword(rootNode.path("credentials").asText());
94
95 HttpHost targetHost = new HttpHost(rootNode.path("domainName").asText(), 8080, "http");
96
```



Low

Package: .com.cts.dcrowd.rest.defect.app.jira.services

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 493 (Password Management: Password in Comment)

Low

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Structural)

Sink Details

Sink: Comment

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:493

```
490 return securityService.getAutheticatedUserName(rootNode.path("credentials").asText());
491 }
492
493 /**
494 * Gets the password.
495 *
496 * @param rootNode the root node
```



Poor Error Handling: Empty Catch Block (1 issue)

Abstract

Ignoring an exception can cause the program to overlook unexpected states and conditions.

Explanation

Just about every serious attack on a software system begins with the violation of a programmer's assumptions. After the attack, the programmer's assumptions seem flimsy and poorly founded, but before an attack many programmers would defend their assumptions well past the end of their lunch break. Two dubious assumptions that are easy to spot in code are "this method call can never fail" and "it doesn't matter if this call fails". When a programmer ignores an exception, they implicitly state that they are operating under one of these assumptions. **Example 1:** The following code excerpt ignores a rarely-thrown exception from doExchange().

```
try {
  doExchange();
}
catch (RareException e) {
  // this can never happen
}
```

If a RareException were to ever be thrown, the program would continue to execute as though nothing unusual had occurred. The program records no evidence indicating the special situation, potentially frustrating any later attempt to explain the program's behavior.

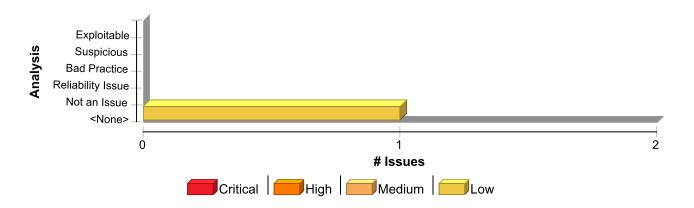
Recommendation

At a minimum, log the fact that the exception was thrown so that it will be possible to come back later and make sense of the resulting program behavior. Better yet, abort the current operation. If the exception is being ignored because the caller cannot properly handle it but the context makes it inconvenient or impossible for the caller to declare that it throws the exception itself, consider throwing a RuntimeException or an Error, both of which are unchecked exceptions. As of JDK 1.4, RuntimeException has a constructor that makes it easy to wrap another exception. **Example 2:** The code in Example 1 could be rewritten in the following way:

```
try {
  doExchange();
}
catch (RareException e) {
  throw new RuntimeException("This can never happen", e);
}
```

Issue Summary





Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
Poor Error Handling: Empty Catch Block	1	0	0	1
Total	1	0	0	1

Poor Error Handling: Empty Catch Block	Low
Package: com.cts.dcrowd.rest.app.util	
src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java, line 197 (Poor Error Handling: Empty Catch Block)	Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: dump()

File: src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java:197

```
194 }
195 sb.append(field.getName()).append('=').append('\'')
196 .append(value).append('\'');
197 } catch (IllegalAccessException ignore) {
198 //this should never happen
199 }
200
```



Poor Error Handling: Overly Broad Catch (51 issues)

Abstract

The catch block handles a broad swath of exceptions, potentially trapping dissimilar issues or problems that should not be dealt with at this point in the program.

Explanation

Multiple catch blocks can get repetitive, but "condensing" catch blocks by catching a high-level class such as <code>Exception</code> can obscure exceptions that deserve special treatment or that should not be caught at this point in the program. Catching an overly broad exception essentially defeats the purpose of Java's typed exceptions, and can become particularly dangerous if the program grows and begins to throw new types of exceptions. The new exception types will not receive any attention. **Example:** The following code except handles three types of exceptions in an identical fashion.

```
try {
    doExchange();
}
catch (IOException e) {
    logger.error("doExchange failed", e);
}
catch (InvocationTargetException e) {
    logger.error("doExchange failed", e);
}
catch (SQLException e) {
    logger.error("doExchange failed", e);
}
At first blush, it may seem preferable to deal with these exceptions in a single catch block, as follows:
    try {
        doExchange();
    }
    catch (Exception e) {
        logger.error("doExchange failed", e);
}
```

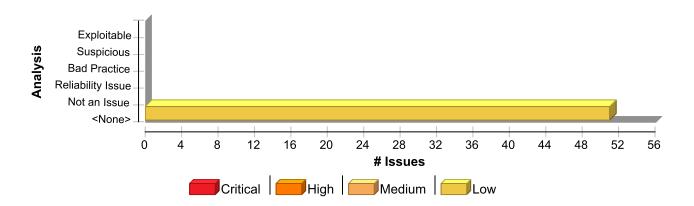
However, if doExchange() is modified to throw a new type of exception that should be handled in some different kind of way, the broad catch block will prevent the compiler from pointing out the situation. Further, the new catch block will now also handle exceptions derived from RuntimeException such as ClassCastException, and NullPointerException, which is not the programmer's intent.

Recommendation

Do not catch broad exception classes such as Exception, Throwable, Error, or RuntimeException except at the very top level of the program or thread.

Issue Summary





Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
Poor Error Handling: Overly Broad Catch	51	0	0	51
Total	51	0	0	51

Poor Error Handling: Overly Broad Catch	Low
Package: .com.cts.dcrowd.rest.app.service.helper	
src/main/java/com/cts/dcrowd/rest/app/service/helper/ CampaignServiceHelper.java, line 380 (Poor Error Handling: Overly Broad Catch)	Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: accept()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/CampaignServiceHelper.java:380

Taint Flags:

src/main/java/com/cts/dcrowd/rest/app/service/helper/ CampaignServiceHelper.java, line 476 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock



Low

Package: .com.cts.dcrowd.rest.app.service.helper

src/main/java/com/cts/dcrowd/rest/app/service/helper/

CampaignServiceHelper.java, line 476 (Poor Error Handling: Overly Broad Catch)

Low

Enclosing Method: accept()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/CampaignServiceHelper.java:476

Taint Flags:

```
473  }
474  }
475  }
476  } catch (Exception e) {
477  e.printStackTrace();
478  }
479  }
```

Package: .com.cts.dcrowd.rest.defect.app.jira.services

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 244 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: accept()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:244

Taint Flags:

```
241 ResponseEntity<String> response1 = restTemplate.postForEntity(serverUrl, requestEntity,
String.class);
242 System.out.println(response1);
243
244 } catch (Exception e) {
245 // TODO Auto-generated catch block
246 e.printStackTrace();
247 }
```

Package: com.cts.dcrowd.rest.app.controller

src/main/java/com/cts/dcrowd/rest/app/controller/UserController.java, line 535 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock



Low

Package: com.cts.dcrowd.rest.app.controller

src/main/java/com/cts/dcrowd/rest/app/controller/UserController.java, line 535 (Poor Error Handling: Overly Broad Catch)

Low

Enclosing Method: saveProfileImage()

File: src/main/java/com/cts/dcrowd/rest/app/controller/UserController.java:535

Taint Flags:

```
532 throw new DcrowdException("Invalid Attachment");
533 }
534
535 } catch (Exception e) {
536 LOGGER.debug("DcrowdException : ", e);
537 return buildFailureResponse( 219, "Failed in UserController - "+e);
538 }
```

Package: com.cts.dcrowd.rest.app.security

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 143 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: getUserCredentialFromBlowFish()

File: src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java:143

Taint Flags:

```
140 String credential;
141 try {
142 credential = new String(decryptLoginCredential(token)).split(":")[index];
143 } catch (Exception e) {
144 credential = null;
145 LOGGER.debug("Exception : {} \n Stack Trace : {}", e.getMessage(),
String.valueOf(e.getStackTrace()));
146 }
```

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 161 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: getUsernameFromToken()

File: src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java:161



Low

Package: com.cts.dcrowd.rest.app.security

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 161 (Poor Error Handling: Overly Broad Catch)

Low

Taint Flags:

```
158  try {
159  final Claims claims = this.getClaimsFromToken(token);
160  username = claims.getSubject();
161  } catch (Exception e) {
162  username = null;
163  LOGGER.debug("Exception : {} \n Stack Trace : {}", e.getMessage(),
String.valueOf(e.getStackTrace()));
164  }
```

src/main/java/com/cts/dcrowd/rest/app/security/LdapUserDetailsMapperWS.java, line 308 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: insertNewUserWebService()

File: src/main/java/com/cts/dcrowd/rest/app/security/LdapUserDetailsMapperWS.java:308

Taint Flags:

```
305 emailEventService.afterRegistration(user.getEmail());
306 return user;
307
308 } catch (Exception e) {
309 e.printStackTrace();
310 return null;
311 }
```

src/main/java/com/cts/dcrowd/rest/app/security/ApplicationAuthProvider.java, line 106 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: authenticate()

File: src/main/java/com/cts/dcrowd/rest/app/security/ApplicationAuthProvider.java:106

Taint Flags:

103 return new UsernamePasswordAuthenticationToken(finalUser,
104 authentication.getCredentials(), grantedAuths);



Low

Package: com.cts.dcrowd.rest.app.security

src/main/java/com/cts/dcrowd/rest/app/security/ApplicationAuthProvider.java, line 106 (Poor Error Handling: Overly Broad Catch)

Low

```
105 }
106 catch (Exception e) {
107 e.printStackTrace();
108 return null;
109 }
```

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 215 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: getAudienceFromToken()

File: src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java:215

Taint Flags:

```
212 try {
213 final Claims claims = this.getClaimsFromToken(token);
214 audience = (String) claims.get("audience");
215 } catch (Exception e) {
216 audience = null;
217 LOGGER.debug("Exception : {} \n Stack Trace : {}", e.getMessage(),
String.valueOf(e.getStackTrace()));
218 }
```

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 368 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: refreshToken()

File: src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java:368

```
365 final Claims claims = this.getClaimsFromToken(token);
366 claims.put("created", this.generateCurrentDate());
367 refreshedToken = this.generateToken(claims);
368 } catch (Exception e) {
369 refreshedToken = null;
370 LOGGER.debug("Exception : {} \n Stack Trace : {}", e.getMessage(),
```



Low

Package: com.cts.dcrowd.rest.app.security

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 368 (Poor Error Handling: Overly Broad Catch)

Low

```
String.valueOf(e.getStackTrace()));
371 }
```

src/main/java/com/cts/dcrowd/rest/app/security/LdapUserDetailsMapperWS.java, line 102 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: loadUserByUsername()

File: src/main/java/com/cts/dcrowd/rest/app/security/LdapUserDetailsMapperWS.java:102

Taint Flags:

```
99 if (Util.isEmpty(user)) {
100 user = insertNewUserWebService(username);
101 }
102 } catch (Exception e) {
103 e.printStackTrace();
104 return null;
105 }
```

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 179 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: getCreatedDateFromToken()

File: src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java:179

```
176 try {
177 final Claims claims = this.getClaimsFromToken(token);
178 created = new Date((Long) claims.get("created"));
179 } catch (Exception e) {
180 created = null;
181 LOGGER.debug("Exception : {} \n Stack Trace : {}", e.getMessage(),
String.valueOf(e.getStackTrace()));
182 }
```



Low

Package: com.cts.dcrowd.rest.app.security

src/main/java/com/cts/dcrowd/rest/app/security/ApplicationAuthProvider.java, line 166 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: authenticateEmployee()

File: src/main/java/com/cts/dcrowd/rest/app/security/ApplicationAuthProvider.java:166

Taint Flags:

```
163  return false;
164 }
165
166 } catch (Exception e) {
167  LOGGER.debug("Exception on connectExternalUser catch block : {} \n Stack Trace : {}",
  e.getMessage(), String.valueOf(e.getStackTrace()));
168  } finally {
169  try {
```

src/main/java/com/cts/dcrowd/rest/app/security/ApplicationAuthProvider.java, line 172 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: authenticateEmployee()

File: src/main/java/com/cts/dcrowd/rest/app/security/ApplicationAuthProvider.java:172

Taint Flags:

```
169 try {
170 requestFactory.destroy();
171 HttpClientUtils.closeQuietly(httpClient);
172 } catch (Exception e) {
173  // TODO Auto-generated catch block
174  LOGGER.debug("Exception on authenticateEmployee finally block : {} \n Stack Trace : {}",
e.getMessage(), String.valueOf(e.getStackTrace()));
175 }
```

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 126 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)



Low

Package: com.cts.dcrowd.rest.app.security

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 126 (Poor Error Handling: Overly Broad Catch)

Low

Sink Details

Sink: CatchBlock

Enclosing Method: getPasswordFromBase64Token()

File: src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java:126

Taint Flags:

```
//String base64Credentials = token.substring(BASIC.length()).trim();

try {

password = new String(Base64.getDecoder().decode(token),UTF8).split(">:<")[1];

catch (Exception e) {

password = null;

LOGGER.debug("Exception : {} \n Stack Trace : {}", e.getMessage(),

String.valueOf(e.getStackTrace()));
}</pre>
```

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 85 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: validateBasicAuthToken()

File: src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java:85

Taint Flags:

```
82 String[] basicAuthString = new String(Base64.getDecoder().decode(token),
UTF8).split(">:<");
83    //String[] basicAuthString = new String(decryptLoginCredential(token)).split(":");
84    isValid = (basicAuthString.length == 2) ? true : false;
85    } catch (Exception e) {
86    isValid = false;
87    LOGGER.debug("UnsupportedEncodingException : {} \n Stack Trace : {}", e.getMessage(),
String.valueOf(e.getStackTrace()));
88  }</pre>
```

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 197 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details



Low

Package: com.cts.dcrowd.rest.app.security

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 197 (Poor Error Handling: Overly Broad Catch)

Low

Sink: CatchBlock

Enclosing Method: getExpirationDateFromToken()

File: src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java:197

Taint Flags:

```
194 try {
195 final Claims claims = this.getClaimsFromToken(token);
196 expiration = claims.getExpiration();
197 } catch (Exception e) {
198 expiration = null;
199 LOGGER.debug("Exception : {} \n Stack Trace : {}", e.getMessage(),
String.valueOf(e.getStackTrace()));
200 }
```

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 433 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: decryptLoginCredential()

File: src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java:433

Taint Flags:

```
430 byte[] decrypted = cipher.doFinal(blowFishCredentials.getBytes());
431 userCredential = new String(decrypted);
432 }
433 catch (Exception e) {
434 userCredential = null;
435 LOGGER.debug("Exception : {} \n Stack Trace : {}", e.getMessage(),
String.valueOf(e.getStackTrace()));
436 }
```

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 106 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: getUsernameFromBase64Token()

File: src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java:106



Low

Package: com.cts.dcrowd.rest.app.security

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 106 (Poor Error Handling: Overly Broad Catch)

Low

Taint Flags:

```
103  //String base64Credentials = token.substring(BASIC.length()).trim();
104  try {
105  username = new String(Base64.getDecoder().decode(token), UTF8).split(">:<")[0];
106  } catch (Exception e) {
107  username = null;
108  LOGGER.debug("Exception : {} \n Stack Trace : {}", e.getMessage(),
String.valueOf(e.getStackTrace()));
109  }</pre>
```

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 408 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: getDatabaseName()

File: src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java:408

Taint Flags:

```
405 try {
406 final Claims claims = this.getClaimsFromToken(token);
407 dbname = claims.getIssuer();
408 } catch (Exception e) {
409 dbname = null;
410 LOGGER.debug("Exception : {} \n Stack Trace : {}", e.getMessage(),
String.valueOf(e.getStackTrace()));
411 }
```

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 235 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: getClaimsFromToken()

File: src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java:235

Taint Flags:

232 .setSigningKey(this.secret)



Low

Package: com.cts.dcrowd.rest.app.security

src/main/java/com/cts/dcrowd/rest/app/security/TokenUtils.java, line 235 (Poor Error Handling: Overly Broad Catch)

Low

```
233  .parseClaimsJws(token)
234  .getBody();
235  } catch (Exception e) {
236  claims = null;
237  LOGGER.debug("Exception : {} \n Stack Trace : {}", e.getMessage(),
String.valueOf(e.getStackTrace()));
238  }
```

Package: com.cts.dcrowd.rest.app.security.service.impl

src/main/java/com/cts/dcrowd/rest/app/security/service/impl/ SecurityServiceImpl.iava, line 103 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: doAuthenticate()

File: src/main/java/com/cts/dcrowd/rest/app/security/service/impl/SecurityServiceImpl.java:103

Taint Flags:

```
100 );
101
102 SecurityContextHolder.getContext().setAuthentication(authentication);
103 } catch(Exception e) {
104 e.printStackTrace();
105 return false;
106 }
```

Package: com.cts.dcrowd.rest.app.service

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 202 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: moderatorsInvitationForCampaigns()

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java:202

```
199 return false;
200 }
```



Low

Package: com.cts.dcrowd.rest.app.service

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 202 (Poor Error Handling: Overly Broad Catch)

Low

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 237 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: afterRegistration()

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java:237

Taint Flags:

```
234 try {
235 EmailVO emailConf = emailService.createEmail(configuration, false);
236 emailService.sendEmail(emailConf);
237 } catch (Exception e) {
238 e.printStackTrace();
239 }
240 }
```

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 405 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: externalCustomerRegistered()

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java:405

```
402 try {
403 EmailVO emailConf = emailService.createEmail(configuration, false);
404 emailService.sendEmail(emailConf);
405 } catch (Exception e) {
406 e.printStackTrace();
407 }
```



Poor Error Handling: Overly Broad Catch Package: com.cts.dcrowd.rest.app.service src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 405 (Poor Error Handling: Overly Broad Catch) Low

408

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 135 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: afterInvitedTester()

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java:135

Taint Flags:

```
132  EmailVO emailConf = emailService.createEmail(configuration, false);
133  emailService.sendEmail(emailConf);
134  return true;
135  } catch (Exception e) {
136  e.printStackTrace();
137  return false;
138 }
```

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 316 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: campaignEmail()

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java:316

```
313 toIndex = Math.min(toIndex + 100 , email.size());
314 }
315 return true;
316 } catch (Exception e) {
317 e.printStackTrace();
318 return false;
319 }
```



Low

Package: com.cts.dcrowd.rest.app.service

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 427 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: userAssignedMail()

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java:427

Taint Flags:

```
424 try {
425  EmailVO emailConf = emailService.createEmail(configuration, false);
426  emailService.sendEmail(emailConf);
427  } catch (Exception e) {
428  e.printStackTrace();
429  }
430 }
```

src/main/java/com/cts/dcrowd/rest/app/service/AddressService.java, line 51 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: getAddressIdByStreetAddress()

File: src/main/java/com/cts/dcrowd/rest/app/service/AddressService.java:51

Taint Flags:

```
48 try{
49 return addressRepository.findByOfficeAddress(streetAddress);
50 }
51 catch(Exception ex)
52 {
53 return null;
54 }
```

src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java, line 996 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)



Low

Package: com.cts.dcrowd.rest.app.service

src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java, line 996 (Poor Error Handling: Overly Broad Catch)

Low

Sink Details

Sink: CatchBlock

Enclosing Method: confirmTeam()

File: src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java:996

Taint Flags:

```
993 try {
994 user = userService.findByUserId(userId);
995 userFlag = true;
996 } catch (Exception e) {
997 externalUser = externalUserRepository.findOne(userId);
998 }
999 if (userFlag) {
```

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 344 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: fastesterRegistration()

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java:344

Taint Flags:

```
341 try {
342 EmailVO emailConf = emailService.createEmail(configuration, false);
343 emailService.sendEmail(emailConf);
344 } catch (Exception e) {
345 e.printStackTrace();
346 }
347 }
```

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 168 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: inviteExternalModerators()

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java:168



Poor Error Handling: Overly Broad Catch Package: com.cts.dcrowd.rest.app.service src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 168 (Poor Error Handling: Overly Broad Catch)

Taint Flags:

```
165  EmailVO emailConf = emailService.createEmail(configuration, false);
166  emailService.sendEmail(emailConf);
167  return true;
168  } catch (Exception e) {
169  e.printStackTrace();
170  return false;
171 }
```

src/main/java/com/cts/dcrowd/rest/app/service/UserService.java, line 234 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: setUserProfile()

File: src/main/java/com/cts/dcrowd/rest/app/service/UserService.java:234

Taint Flags:

```
231 if(!Util.isEmpty(user)) {
232 user.setUserProfile(configureAndGetUserProfile(user));
233 }
234 }catch(Exception e)
235 {
236 e.printStackTrace();
237 }
```

src/main/java/com/cts/dcrowd/rest/app/service/EmailService.java, line 136 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: createEmail()

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailService.java:136

```
133 }
134 return email;
135
```



Low

Package: com.cts.dcrowd.rest.app.service

src/main/java/com/cts/dcrowd/rest/app/service/EmailService.java, line 136 (Poor Error Handling: Overly Broad Catch)

Low

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 267 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: defectStatusChangeEmail()

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java:267

Taint Flags:

```
264 try {
265  EmailVO emailConf = emailService.createEmail(configuration, false);
266  emailService.sendEmail(emailConf);
267  } catch (Exception e) {
268  e.printStackTrace();
269  }
270 }
```

src/main/java/com/cts/dcrowd/rest/app/service/ProfileImageService.java, line 108 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: saveImage()

File: src/main/java/com/cts/dcrowd/rest/app/service/ProfileImageService.java:108

```
105 }
106 Util.writeFileToFileServer(imageFile.getBytes(), fileDIR, finalFilePath, false);
107 userService.createUpdateUser(user);
108 } catch (Exception e) {
109 e.printStackTrace();
110
111 }
```



Low

Package: com.cts.dcrowd.rest.app.service

src/main/java/com/cts/dcrowd/rest/app/service/EmailService.java, line 243 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: getVelocityEngineTemplateContent()

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailService.java:243

Taint Flags:

```
240
    .processTemplateIntoString( freeMarkerConfiguration.getTemplate(configuration.getTemplateID())
241    content.append(VelocityEngineUtils.mergeTemplateIntoString(velocityEngine,
    configuration.getTemplateID(), configuration.getParameters()));
242    return content.toString();
243    }catch(Exception e){
244    LOGGER.debug("Inside getVelocityEngineTemplateContent method : error"+e.getMessage());
245    }
246    return "";
```

Package: com.cts.dcrowd.rest.app.service.helper

src/main/java/com/cts/dcrowd/rest/app/service/helper/

LdapWebserviceHelper.java, line 88 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: extractLdapValueMap()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/LdapWebserviceHelper.java:88

```
85 try {
86 requestFactory.destroy();
87 HttpClientUtils.closeQuietly(httpClient);
88 } catch (Exception e) {
89  // TODO Auto-generated catch block
90 LOGGER.debug("Exception on connectExternalUser finally block : {} \n Stack Trace : {}", e.getMessage(), String.valueOf(e.getStackTrace()));
91 }
```



Poor Error Handling: Overly Broad Catch Package: com.cts.dcrowd.rest.app.service.helper src/main/java/com/cts/dcrowd/rest/app/service/helper/ ApplicationQueryProcessor.java, line 421 (Poor Error Handling: Overly Broad Catch) Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: getUserBadgeToGenerateReport()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/ApplicationQueryProcessor.java:421

Taint Flags:

```
418 List<BadgeReport> badgeReport = output.getMappedResults();
419 return badgeReport;
420 }
421 catch(Exception e)
422 {
423 e.printStackTrace();
424 }
```

Package: com.cts.dcrowd.rest.app.util

src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java, line 81 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: generateBlowFishEncryptValue()

File: src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java:81

Taint Flags:

```
78 cipher.init(Cipher.ENCRYPT_MODE, skeyspec);
79 byte[] encrypted=cipher.doFinal(sourceValue.getBytes());
80 strData = new String(Base64.getEncoder().encode(encrypted));
81 } catch (Exception e) {
82 e.printStackTrace();
83 }
84 return strData;
```

src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java, line 145 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors



Low

Package: com.cts.dcrowd.rest.app.util

src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java, line 145 (Poor Error Handling: Overly Broad Catch)

Low

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: readJsonObject()

File: src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java:145

Taint Flags:

```
142 Object obj = parser.parse(fileReader);
143  JSONObject jsonObject = (JSONObject) obj;
144  return jsonObject;
145  } catch (Exception e) {
146  return null;
147  }
148 }
```

src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java, line 61 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: base64Decoder()

File: src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java:61

Taint Flags:

```
58 String sourceValue = "";
59 try {
60 sourceValue = new String(Base64.getDecoder().decode(encodedValue), "utf-8");
61 } catch (Exception e) {
62 e.printStackTrace();
63 }
64 return sourceValue;
```

src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java, line 103 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock



Low

Package: com.cts.dcrowd.rest.app.util

src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java, line 103 (Poor Error Handling: Overly Broad Catch)

Low

Enclosing Method: generateBlowFishDecryptValue()

File: src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java:103

Taint Flags:

```
100 byte[] decrypted = cipher.doFinal(Base64.getDecoder().decode(encryptedValue));
101 strData = new String(decrypted);
102 System.out.println(strData);
103 } catch (Exception e) {
104 e.printStackTrace();
105 }
106 return strData;
```

Package: com.cts.dcrowd.rest.app.utils

src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 508 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: generateBlowFishEncryptValue()

File: src/main/java/com/cts/dcrowd/rest/app/utils/Util.java:508

Taint Flags:

```
505 byte[] encrypted=cipher.doFinal(sourceValue.getBytes());
506  //strData = base64Encoder(encrypted);
507  strData = encrypted.toString();
508  } catch (Exception e) {
509  e.printStackTrace();
510  }
511  return strData;
```

src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 531 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: generateBlowFishDecryptValue()

File: src/main/java/com/cts/dcrowd/rest/app/utils/Util.java:531



Low

Package: com.cts.dcrowd.rest.app.utils

src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 531 (Poor Error Handling: Overly Broad Catch)

Low

```
528 String[] basicAuthString = null;
529 try {
530 basicAuthString = new String(Base64.getDecoder().decode(encryptedValue),
StandardCharsets.UTF_8).split("fastestCustomers");
531 } catch (Exception e) {
532 e.printStackTrace();
533 }
534 return basicAuthString!=null && basicAuthString.length != 0 ? basicAuthString[0] : null;
```

src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 559 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: base64Decoder()

File: src/main/java/com/cts/dcrowd/rest/app/utils/Util.java:559

Taint Flags:

```
556 String sourceValue = "";
557 try {
558 sourceValue = new String(Base64.getDecoder().decode(encodedValue), "utf-8");
559 } catch (Exception e) {
560 LOGGER.debug("UnsupportedEncodingException : {} \n Stack Trace : {}", e.getMessage(), String.valueOf(e.getStackTrace()));
561 }
562 return sourceValue;
```

src/main/java/com/cts/dcrowd/rest/app/utils/StopwordUtility.java, line 36 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: StopwordUtility()

File: src/main/java/com/cts/dcrowd/rest/app/utils/StopwordUtility.java:36

```
33 private StopwordUtility(){
34 try {
35 loadStopList();
```



Low

Package: com.cts.dcrowd.rest.app.utils

src/main/java/com/cts/dcrowd/rest/app/utils/StopwordUtility.java, line 36 (Poor Error Handling: Overly Broad Catch)

Low

```
36  } catch (Exception e) {
37  e.printStackTrace();
38  }
39  }
```

src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 749 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: decryptLoginCredential()

File: src/main/java/com/cts/dcrowd/rest/app/utils/Util.java:749

Taint Flags:

```
746 byte[] decrypted = cipher.doFinal(blowFishCredentials.getBytes());
747 userCredential = new String(decrypted);
748 }
749 catch (Exception e) {
750 userCredential = null;
751 LOGGER.debug("Exception : {} \n Stack Trace : {}", e.getMessage(),
String.valueOf(e.getStackTrace()));
752 }
```

src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 653 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: connectExternalUser()

File: src/main/java/com/cts/dcrowd/rest/app/utils/Util.java:653



Poor Error Handling: Overly Broad Catch Package: com.cts.dcrowd.rest.app.utils src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 653 (Poor Error Handling: Overly Broad Catch) Low

656

src/main/java/com/cts/dcrowd/rest/app/utils/EmailDomainFilterUtility.java, line 34 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: EmailDomainFilterUtility()

File: src/main/java/com/cts/dcrowd/rest/app/utils/EmailDomainFilterUtility.java:34

Taint Flags:

```
31 private EmailDomainFilterUtility() {
32  try {
33  loadDomainList();
34  } catch (Exception e) {
35  e.printStackTrace();
36  }
37  }
```

Package: com.cts.dcrowd.rest.defect.app.services.impl

src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/
DefaultDefectServiceImpl.java, line 234 (Poor Error Handling: Overly Broad Catch)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: modifyDefect()

File: src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/DefaultDefectServiceImpl.java:234

```
231 emailEventService.defectStatusChangeEmail(recieverEmailId, defectEntryFromReq);
232  // Set is email flag to true
233  defectEntryFromReq.setIsEmailSentForRejectOrOnhold(true);
234  } catch(Exception exp) {
235  defectEntryFromReq.setIsEmailSentForRejectOrOnhold(false);
236  LOGGER.error("UndeliverableEmailException : Email not sent - Reason below \n" + exp.getMessage());
237  }
```



Poor Error Handling: Overly Broad Catch	Low
Package: com.cts.dcrowd.rest.defect.app.services.impl	
src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/ DefaultDefectServiceImpl.java, line 234 (Poor Error Handling: Overly Broad Catch)	Low



Poor Error Handling: Overly Broad Throws (57 issues)

Abstract

The method throws a generic exception making it harder for callers to do a good job of error handling and recovery.

Explanation

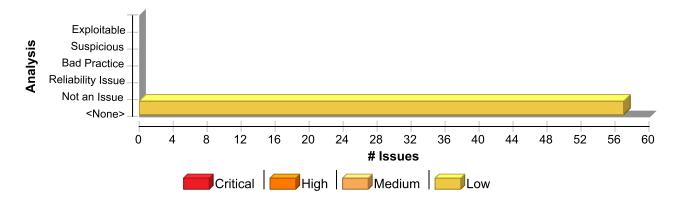
Declaring a method to throw <code>Exception</code> or <code>Throwable</code> makes it difficult for callers to do good error handling and error recovery. Java's exception mechanism is set up to make it easy for callers to anticipate what can go wrong and write code to handle each specific exceptional circumstance. Declaring that a method throws a generic form of exception defeats this system. <code>Example:</code> The following method throws three types of exceptions.

doing so hampers the caller's ability to understand and handle the exceptions that occur. Further, if a later revision of doExchange() introduces a new type of exception that should be treated differently than previous exceptions, there is no easy way to enforce this requirement.

Recommendation

Do not declare methods to throw <code>Exception</code> or <code>Throwable</code>. If the exceptions thrown by a method are not recoverable or should not generally be caught by the caller, consider throwing unchecked exceptions rather than checked exceptions. This can be accomplished by implementing exception classes that extend <code>RuntimeException</code> or <code>Error</code> instead of <code>Exception</code>, or add a try/catch wrapper in your method to convert checked exceptions to unchecked exceptions.

Issue Summary





Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
Poor Error Handling: Overly Broad Throws	57	0	0	57
Total	57	0	0	57

Poor Error Handling: Overly Broad Throws	Low
Package: com.cts.dcrowd.rest.app.repository	
src/test/java/com/cts/dcrowd/rest/app/repository/ CampaignControllerTestNG.java, line 126 (Poor Error Handling: Overly Broad Throws)	Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testgetNominatedCampaignOfUser **Enclosing Method:** testgetNominatedCampaignOfUser()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:126

Taint Flags:

```
123 * @throws Exception the exception
124 */
125 @Test
126 public void testgetNominatedCampaignOfUser() throws Exception {
127
128 mockMvc.perform(get("http://localhost:8007/api/v1/crowd/campaigns/nominatedCampaign")
129 .header("X_Auth_Token", user.getAuthToken())
```

src/test/java/com/cts/dcrowd/rest/app/repository/ CampaignControllerTestNG.java, line 289 (Poor Error Handling: Overly Broad Throws)

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testsaveFeedback Enclosing Method: testsaveFeedback()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:289

```
286 * @throws Exception the exception
287 */
288 @Test
289 public void testsaveFeedback() throws Exception {
290    JSONObject jsonObj = TestUtil.readJsonObject(new File("src/test/resources/CampaignJson.txt"));
291    String feedback = jsonObj.get("feedback").toString();
292    mockMvc.perform(post("http://localhost:8007/api/v1/crowd/campaigns/moderator/
```



Poor Error Handling: Overly Broad Throws	Low
Package: com.cts.dcrowd.rest.app.repository	
src/test/java/com/cts/dcrowd/rest/app/repository/ CampaignControllerTestNG.java, line 289 (Poor Error Handling: Overly Broad Throws)	Low

```
saveFeedback/"+campaign.get id())
```

src/test/java/com/cts/dcrowd/rest/app/repository/ CampaignControllerTestNG.java, line 157 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testsaveCampaign **Enclosing Method:** testsaveCampaign()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:157

Taint Flags:

```
154 *
155 * @throws Exception the exception
156 */
157 public void testsaveCampaign() throws Exception {
158
159    JSONObject jsonObj = TestUtil.readJsonObject(new File("src/test/resources/CampaignJson.txt"));
160    String campaignJson = jsonObj.get("campaign").toString();
```

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 343 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testgetRedeemProduct **Enclosing Method:** testgetRedeemProduct()

File: src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java:343

```
340 * @throws Exception the exception
341 */
342 @Test
343 public void testgetRedeemProduct() throws Exception {
344 mockMvc.perform(get("http://localhost:8007/api/v1/crowd/users/redeem/view/1")
345 .header("X_Auth_Token", user1.getAuthToken())
346 .contentType(MediaType.APPLICATION_JSON)).
```



Poor Error Handling: Overly Broad Throws Package: com.cts.dcrowd.rest.app.repository src/test/java/com/cts/dcrowd/rest/app/repository/ CampaignControllerTestNG.java, line 275 (Poor Error Handling: Overly Broad Throws) Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testcompleteCampaign **Enclosing Method:** testcompleteCampaign()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:275

Taint Flags:

```
272 * @throws Exception the exception
273 */
274 @Test
275 public void testcompleteCampaign() throws Exception {
276 mockMvc.perform(post("http://localhost:8007/api/v1/crowd/campaigns/completeCampaign/"+campaign.get_id())
277 .header("X_Auth_Token", user.getAuthToken())
278 .contentType(MediaType.APPLICATION_JSON)).
```

src/test/java/com/cts/dcrowd/rest/app/repository/BadgeControllerTestNG.java, line 78 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: setup Enclosing Method: setup()

File: src/test/java/com/cts/dcrowd/rest/app/repository/BadgeControllerTestNG.java:78

Taint Flags:

```
75 * @throws Exception the exception
76 */
77 @BeforeClass
78 public void setup() throws Exception {
79 this.mockMvc = MockMvcBuilders.webAppContextSetup(this.wac).build();
80 mockMvc.perform(post("http://localhost:8007/api/v1/crowd/login").header("Authorization", TestUtil.convertBase64("602937", "Mar@2017"))
81 .contentType(MediaType.APPLICATION_JSON)).andExpect(status().isOk());
```

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 171 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors



Low

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 171 (Poor Error Handling: Overly Broad Throws)

Low

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testfindAllUsers
Enclosing Method: testfindAllUsers()

File: src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java:171

Taint Flags:

```
168 * @throws Exception the exception
169 */
170 @Test
171 public void testfindAllUsers() throws Exception {
172 mockMvc.perform(get("http://localhost:8007/api/v1/crowd/users/admin/allUsersList/1/2")
173 .header("X_Auth_Token", user1.getAuthToken())
174 .contentType(MediaType.APPLICATION_JSON))
```

src/test/java/com/cts/dcrowd/rest/app/repository/

CampaignControllerTestNG.java, line 305 (Poor Error Handling: Overly Broad

Low

Throws)

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testgetFeedback
Enclosing Method: testgetFeedback()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:305

Taint Flags:

```
302 * @throws Exception the exception
303 */
304 @Test
305 public void testgetFeedback() throws Exception {
306 mockMvc.perform(get("http://localhost:8007/api/v1/crowd/campaigns/moderator/getFeedback/"+campaign.get_id()+"/"+user.get_id())
307 .header("X_Auth_Token", user.getAuthToken())
308 .contentType(MediaType.APPLICATION JSON)).
```

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 329 (Poor Error Handling: Overly Broad Throws)

οw

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)



Low

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 329 (Poor Error Handling: Overly Broad Throws)

Low

Sink Details

Sink: Function: testuserRedemption **Enclosing Method:** testuserRedemption()

File: src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java:329

Taint Flags:

```
326 * @throws Exception the exception
327 */
328 @Test
329 public void testuserRedemption() throws Exception {
330 mockMvc.perform(post("http://localhost:8007/api/v1/crowd/users/redemption/purchase/1")
331 .header("X_Auth_Token", user1.getAuthToken())
332 .contentType(MediaType.APPLICATION_JSON)).
```

src/test/java/com/cts/dcrowd/rest/app/repository/BadgeControllerTestNG.java, line 176 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testgetBadgeImageById **Enclosing Method:** testgetBadgeImageById()

File: src/test/java/com/cts/dcrowd/rest/app/repository/BadgeControllerTestNG.java:176

Taint Flags:

```
173 * @throws Exception the exception
174 */
175 @Test
176 public void testgetBadgeImageById() throws Exception
177 {
178 mockMvc.perform(get("http://localhost:8007/api/v1/crowd/badge/badgeImage/download/"+badge.get_id())
179 .header("X_Auth_Token", user.getAuthToken())
```

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 200 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testuserProfileInfo **Enclosing Method:** testuserProfileInfo()

File: src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java:200



Low

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 200 (Poor Error Handling: Overly Broad Throws)

Low

Taint Flags:

```
197 * @throws Exception the exception
198 */
199 @Test
200 public void testuserProfileInfo() throws Exception {
201 mockMvc.perform(get("http://localhost:8007/api/v1/crowd/users/userProfile/"+user1.get_id())
202 .header("X_Auth_Token", user1.getAuthToken())
203 .contentType(MediaType.APPLICATION_JSON)).
```

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 257 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testgetUserBadge **Enclosing Method:** testgetUserBadge()

File: src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java:257

Taint Flags:

```
254 * @throws Exception the exception
255 */
256 @Test
257 public void testgetUserBadge() throws Exception {
258 mockMvc.perform(get("http://localhost:8007/api/v1/crowd/users/badge/"+user1.get_id())
259 .header("X_Auth_Token", user1.getAuthToken())
260 .contentType(MediaType.APPLICATION JSON)).
```

src/test/java/com/cts/dcrowd/rest/app/repository/

CampaignControllerTestNG.java, line 197 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testnominateCampaign
Enclosing Method: testnominateCampaign()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:197

Taint Flags:

194 * @throws Exception the exception



Poor Error Handling: Overly Broad Throws Package: com.cts.dcrowd.rest.app.repository src/test/java/com/cts/dcrowd/rest/app/repository/ CampaignControllerTestNG.java, line 197 (Poor Error Handling: Overly Broad Throws) Low

```
195 */
196 @Test
197 public void testnominateCampaign() throws Exception {
198
199 mockMvc.perform(post("http://localhost:8007/api/v1/crowd/campaigns/
nominateCampaign/"+campaign.get_id())
200 .header("X_Auth_Token", user.getAuthToken())
```

src/test/java/com/cts/dcrowd/rest/app/repository/ CampaignControllerTestNG.java, line 228 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testcloseNomination **Enclosing Method:** testcloseNomination()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:228

Taint Flags:

```
225 * @throws Exception the exception
226 */
227 @Test
228 public void testcloseNomination() throws Exception {
229 mockMvc.perform(post("http://localhost:8007/api/v1/crowd/campaigns/closeNomination/"+campaign.get_id())
230 .header("X_Auth_Token", user.getAuthToken())
231 .contentType(MediaType.APPLICATION JSON)).
```

src/test/java/com/cts/dcrowd/rest/app/repository/ CampaignControllerTestNG.java, line 177 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testopenForNomination Enclosing Method: testopenForNomination()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:177

Taint Flags:

174 * @throws Exception the exception



Low

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/

CampaignControllerTestNG.java, line 177 (Poor Error Handling: Overly Broad Throws)

Low

```
175 */
176 @Test
177 public void testopenForNomination() throws Exception {
178 ObjectMapper mapper = new ObjectMapper();
179 String createdCampaign = mapper.writeValueAsString(campaign);
180 String openForNomination = "{ \"param\": " +createdCampaign+"}";
```

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 242 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testLocationgetTopPerformers **Enclosing Method:** testLocationgetTopPerformers()

File: src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java:242

Taint Flags:

```
239 * @throws Exception the exception
240 */
241 @Test
242 public void testLocationgetTopPerformers() throws Exception {
243   City cityId = masterService.getCityIdByName("coimbatore");
244   mockMvc.perform(get("http://localhost:8007/api/v1/crowd/users/topLocationPerformers/"+cityId+"/1/2")
245   .header("X_Auth_Token", user1.getAuthToken())
```

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 271 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testaddUserBadge **Enclosing Method:** testaddUserBadge()

File: src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java:271

```
268 * @throws Exception the exception
269 */
270 @Test
271 public void testaddUserBadge() throws Exception {
```



Low

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 271 (Poor Error Handling: Overly Broad Throws)

Low

```
272 mockMvc.perform(post("http://localhost:8007/api/v1/crowd/users/moderator/
addBadge/"+user1.get_id()+"/1")
273 .header("X_Auth_Token", user1.getAuthToken())
274 .contentType(MediaType.APPLICATION_JSON)).
```

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 127 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testHandleLogin Enclosing Method: testHandleLogin()

File: src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java:127

Taint Flags:

```
124 * @throws Exception the exception
125 */
126 @Test
127 public void testHandleLogin() throws Exception {
128
129 mockMvc.perform(post("http://localhost:8007/api/v1/crowd/
login").header("Authorization", TestUtil.convertBase64(user1.getUsername(), "Mar@2017"))
130 .contentType(MediaType.APPLICATION_JSON)).andExpect(status().isOk());
```

src/test/java/com/cts/dcrowd/rest/app/repository/BadgeControllerTestNG.java, line 114 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testremoveBadge **Enclosing Method:** testremoveBadge()

File: src/test/java/com/cts/dcrowd/rest/app/repository/BadgeControllerTestNG.java:114

```
111 * @throws Exception the exception

112 */

113 @Test

114 public void testremoveBadge() throws Exception

115 {

116 mockMvc.perform(post("http://localhost:8007/api/v1/crowd/admin/badge/remove/"+badge.getBadgeId())
```



Low

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/BadgeControllerTestNG.java, line 114 (Poor Error Handling: Overly Broad Throws)

Low

```
117 .header("X Auth Token", user.getAuthToken())
```

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 141 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testgetUserDetailsById **Enclosing Method:** testgetUserDetailsById()

File: src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java:141

Taint Flags:

```
138 * @throws Exception the exception
139 */
140 @Test
141 public void testgetUserDetailsById() throws Exception {
142    //String id = user1.get_id();
143    mockMvc.perform(get("http://localhost:8007/api/v1/crowd/users/userDetailbyId/"+user1.get_id())
144    .header("X_Auth_Token", user1.getAuthToken())
```

src/test/java/com/cts/dcrowd/rest/app/repository/ CampaignControllerTestNG.java, line 333 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testgetCampaignerImageById **Enclosing Method:** testgetCampaignerImageById()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:333

```
330 * @throws Exception the exception
331 */
332 @Test
333 public void testgetCampaignerImageById() throws Exception {
334 mockMvc.perform(get("http://localhost:8007/api/v1/crowd/campaigns/campaignerImage/download/"+campaign.get_id())
335 .header("X_Auth_Token", user.getAuthToken())
336 .contentType(MediaType.APPLICATION JSON)).
```



Low

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 214 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testgetUserActivities
Enclosing Method: testgetUserActivities()

File: src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java:214

Taint Flags:

```
211 * @throws Exception the exception
212 */
213 @Test
214 public void testgetUserActivities() throws Exception {
215 mockMvc.perform(get("http://localhost:8007/api/v1/crowd/users/activity/"+user1.get_id())
216 .header("X_Auth_Token", user1.getAuthToken())
217 .contentType(MediaType.APPLICATION JSON)).
```

src/test/java/com/cts/dcrowd/rest/app/repository/BadgeControllerTestNG.java, line 130 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testviewBadgeList Enclosing Method: testviewBadgeList()

File: src/test/java/com/cts/dcrowd/rest/app/repository/BadgeControllerTestNG.java:130

Taint Flags:

```
127 * @throws Exception the exception
128 */
129 @Test
130 public void testviewBadgeList() throws Exception
131 {
132 mockMvc.perform(get("http://localhost:8007/api/v1/crowd/admin/badge/viewBadgeList/1/1")
133 .header("X Auth Token", user.getAuthToken())
```

src/test/java/com/cts/dcrowd/rest/app/repository/BadgeControllerTestNG.java, line 146 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)



Low

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/BadgeControllerTestNG.java, line 146 (Poor Error Handling: Overly Broad Throws)

Low

Sink Details

Sink: Function: testmoderatorViewBadgeList **Enclosing Method:** testmoderatorViewBadgeList()

File: src/test/java/com/cts/dcrowd/rest/app/repository/BadgeControllerTestNG.java:146

Taint Flags:

```
143 * @throws Exception the exception
144 */
145 @Test
146 public void testmoderatorViewBadgeList() throws Exception
147 {
148 mockMvc.perform(get("http://localhost:8007/api/v1/crowd/moderator/badge/viewBadgeList")
149 .header("X_Auth_Token", user.getAuthToken())
```

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 228 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testgetTopPerformers **Enclosing Method:** testgetTopPerformers()

File: src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java:228

Taint Flags:

```
225 * @throws Exception the exception
226 */
227 @Test
228 public void testgetTopPerformers() throws Exception {
229 mockMvc.perform(get("http://localhost:8007/api/v1/crowd/users/topPerformers/1/2")
230 .header("X_Auth_Token", user1.getAuthToken())
231 .contentType(MediaType.APPLICATION_JSON)).
```

src/test/java/com/cts/dcrowd/rest/app/repository/

CampaignControllerTestNG.java, line 319 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testsendRating **Enclosing Method:** testsendRating()



Low

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/

CampaignControllerTestNG.java, line 319 (Poor Error Handling: Overly Broad Throws)

Low

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:319 **Taint Flags:**

```
316 * @throws Exception the exception
317 */
318 @Test(dependsOnMethods = {"testsaveFeedback"})
319 public void testsendRating() throws Exception {
320 mockMvc.perform(post("http://localhost:8007/api/v1/crowd/campaigns/moderator/sendRating/"+campaign.get_id())
321 .header("X_Auth_Token", user.getAuthToken())
322 .contentType(MediaType.APPLICATION_JSON)).
```

src/test/java/com/cts/dcrowd/rest/app/repository/BadgeControllerTestNG.java, line 93 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testaddBadge **Enclosing Method:** testaddBadge()

File: src/test/java/com/cts/dcrowd/rest/app/repository/BadgeControllerTestNG.java:93

Taint Flags:

```
90 * @throws Exception the exception
91 */
92 @Test
93 public void testaddBadge() throws Exception
94 {
95  JSONObject jsonObj = TestUtil.readJsonObject(new File("src/test/resources/badgeJson.txt"));
96  String badgeJson = jsonObj.get("badge").toString();
```

src/test/java/com/cts/dcrowd/rest/app/repository/ CampaignControllerTestNG.java, line 96 (Poor Error Handling: Overly Broad

Low

Throws)

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testgetProfileImageById **Enclosing Method:** testgetProfileImageById()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:96



Poor Error Handling: Overly Broad Throws Package: com.cts.dcrowd.rest.app.repository src/test/java/com/cts/dcrowd/rest/app/repository/ CampaignControllerTestNG.java, line 96 (Poor Error Handling: Overly Broad Throws) Low

```
93
94 }*/
95 @Test
96 public void testgetProfileImageById() throws Exception {
97
98 mockMvc.perform(get("http://localhost:8007/api/v1/crowd/campaigns/1/2")
99 .header("X_Auth_Token", user.getAuthToken())
```

src/test/java/com/cts/dcrowd/rest/app/repository/ CampaignControllerTestNG.java, line 261 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: teststartCampaign **Enclosing Method:** teststartCampaign()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:261

Taint Flags:

```
258 * @throws Exception the exception
259 */
260 @Test
261 public void teststartCampaign() throws Exception {
262 mockMvc.perform(post("http://localhost:8007/api/v1/crowd/campaigns/startCampaign/"+campaign.get_id())
263 .header("X_Auth_Token", user.getAuthToken())
264 .contentType(MediaType.APPLICATION_JSON)).
```

src/test/java/com/cts/dcrowd/rest/app/repository/ CampaignControllerTestNG.java, line 361 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testmoderatorArchivedCampaign Enclosing Method: testmoderatorArchivedCampaign()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:361

Taint Flags:

358 * @throws Exception the exception



Low

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/

CampaignControllerTestNG.java, line 361 (Poor Error Handling: Overly Broad Throws)

Low

```
359 */
360 @Test
361 public void testmoderatorArchivedCampaign() throws Exception {
362 mockMvc.perform(get("http://localhost:8007/api/v1/crowd/campaigns/moderator/archivedCampaign/1/1")
363 .header("X_Auth_Token", user.getAuthToken())
364 .contentType(MediaType.APPLICATION_JSON)).
```

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 387 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testuserAddressById **Enclosing Method:** testuserAddressById()

File: src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java:387

Taint Flags:

```
384 * @throws Exception the exception
385 */
386 @Test
387 public void testuserAddressById() throws Exception {
388
389 mockMvc.perform(get("http://localhost:8007/api/v1/crowd/user/address/"+user1.getAddressId())
390 .header("X_Auth_Token", user1.getAuthToken())
```

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 315 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testgetRedemption **Enclosing Method:** testgetRedemption()

File: src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java:315

```
312 * @throws Exception the exception
313 */
314 @Test
```



Low

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 315 (Poor Error Handling: Overly Broad Throws)

Low

```
315  public void testgetRedemption() throws Exception {
316  mockMvc.perform(get("http://localhost:8007/api/v1/crowd/users/redeemStore")
317  .header("X_Auth_Token", user1.getAuthToken())
318  .contentType(MediaType.APPLICATION_JSON)).
```

src/test/java/com/cts/dcrowd/rest/app/repository/ CampaignControllerTestNG.java, line 71 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: setup Enclosing Method: setup()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:71

Taint Flags:

```
68 * @throws Exception the exception
69 */
70 @BeforeClass
71 public void setup() throws Exception {
72 this.mockMvc = MockMvcBuilders.webAppContextSetup(this.wac).build();
73 mockMvc.perform(post("http://localhost:8007/api/v1/crowd/login").header("Authorization", TestUtil.convertBase64("602937", "Mar@2017"))
74 .contentType(MediaType.APPLICATION_JSON)).andExpect(status().isOk());
```

src/test/java/com/cts/dcrowd/rest/app/repository/ CampaignControllerTestNG.java, line 212 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testviewCampaign **Enclosing Method:** testviewCampaign()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:212

```
209 * @throws Exception the exception
210 */
211 @Test
212 public void testviewCampaign() throws Exception {
213
```



Poor Error Handling: Overly Broad Throws Package: com.cts.dcrowd.rest.app.repository src/test/java/com/cts/dcrowd/rest/app/repository/ CampaignControllerTestNG.java, line 212 (Poor Error Handling: Overly Broad Throws) 214 mockMyc.perform(get.("http://localhost:8007/api/y1/crowd/campaigns/

```
214 mockMvc.perform(get("http://localhost:8007/api/v1/crowd/campaigns/
viewCampaign/"+campaign.get_id())
215 .header("X_Auth_Token", user.getAuthToken())
```

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 372 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testgetProfileImageById **Enclosing Method:** testgetProfileImageById()

File: src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java:372

Taint Flags:

```
369 * @throws Exception the exception
370 */
371 @Test
372 public void testgetProfileImageById() throws Exception {
373
374 mockMvc.perform(get("http://localhost:8007/api/v1/crowd/users/profileImage/download/"+user1.get_id())
375 .header("X_Auth_Token", user1.getAuthToken())
```

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 301 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testpodiumData **Enclosing Method:** testpodiumData()

File: src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java:301

```
298 * @throws Exception the exception
299 */
300 @Test
301 public void testpodiumData() throws Exception {
302 mockMvc.perform(get("http://localhost:8007/api/v1/crowd/users/podium")
303 .header("X_Auth_Token", user1.getAuthToken())
304 .contentType(MediaType.APPLICATION JSON)).
```



Low

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 301 (Poor Error Handling: Overly Broad Throws)

Low

src/test/java/com/cts/dcrowd/rest/app/repository/ CampaignControllerTestNG.java, line 142 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testgetCompletedCampaignOfUser **Enclosing Method:** testgetCompletedCampaignOfUser()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:142

Taint Flags:

```
* @throws Exception the exception
140 */
141 @Test
142 public void testgetCompletedCampaignOfUser() throws Exception {
143
144 mockMvc.perform(get("http://localhost:8007/api/v1/crowd/campaigns/completedCampaign")
145 .header("X_Auth_Token", user.getAuthToken())
```

src/test/java/com/cts/dcrowd/rest/app/repository/BadgeControllerTestNG.java, line 161 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testgetUserBadge **Enclosing Method:** testgetUserBadge()

File: src/test/java/com/cts/dcrowd/rest/app/repository/BadgeControllerTestNG.java:161

```
158 * @throws Exception the exception
159 */
160 @Test
161 public void testgetUserBadge() throws Exception
162 {
163 mockMvc.perform(get("http://localhost:8007/api/v1/crowd/badge/view/"+badge.getBadgeId())
164 .header("X_Auth_Token", user.getAuthToken())
```



Low

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/

CampaignControllerTestNG.java, line 243 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testconfirmTeam **Enclosing Method:** testconfirmTeam()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:243

Taint Flags:

```
240 * @throws Exception the exception
241 */
242 @Test
243 public void testconfirmTeam() throws Exception {
244
245   JSONObject jsonObj = TestUtil.readJsonObject(new File("src/test/resources/CampaignJson.txt"));
246   String users = jsonObj.get("users").toString();
```

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 357 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testgetProfileImage **Enclosing Method:** testgetProfileImage()

File: src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java:357

Taint Flags:

```
354 * @throws Exception the exception
355 */
356 @Test
357 public void testgetProfileImage() throws Exception {
358
359 mockMvc.perform(get("http://localhost:8007/api/v1/crowd/users/profileImage/download")
360 .header("X_Auth_Token", user1.getAuthToken())
```

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 156 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)



Low

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 156 (Poor Error Handling: Overly Broad Throws)

Low

Sink Details

Sink: Function: testgetUserDetailsByName **Enclosing Method:** testgetUserDetailsByName()

File: src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java:156

Taint Flags:

```
153 * @throws Exception the exception
154 */
155 @Test
156 public void testgetUserDetailsByName() throws Exception {
157 //String id = user1.get_id();
158 mockMvc.perform(get("http://localhost:8007/api/v1/crowd/users/userDetailbyName/"+user1.getUsername())
159 .header("X_Auth_Token", user1.getAuthToken())
```

src/test/java/com/cts/dcrowd/rest/app/repository/ CampaignControllerTestNG.java, line 347 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testmoderatorCurrentCampaign **Enclosing Method:** testmoderatorCurrentCampaign()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:347

Taint Flags:

```
344 * @throws Exception the exception
345 */
346 @Test
347 public void testmoderatorCurrentCampaign() throws Exception {
348 mockMvc.perform(get("http://localhost:8007/api/v1/crowd/campaigns/moderator/currentCampaign/1/1")
349 .header("X_Auth_Token", user.getAuthToken())
350 .contentType(MediaType.APPLICATION_JSON)).
```

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 286 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details



Low

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 286 (Poor Error Handling: Overly Broad Throws)

Low

Sink: Function: testremoveUserBadge **Enclosing Method:** testremoveUserBadge()

File: src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java:286

Taint Flags:

```
283 * @throws Exception the exception
284 */
285 @Test
286 public void testremoveUserBadge() throws Exception {
287 mockMvc.perform(post("http://localhost:8007/api/v1/crowd/users/moderator/removeBadge/"+user1.get_id()+"/1")
288 .header("X_Auth_Token", user1.getAuthToken())
289 .contentType(MediaType.APPLICATION JSON)).
```

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 186 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testgetMyDetails **Enclosing Method:** testgetMyDetails()

File: src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java:186

Taint Flags:

```
183 * @throws Exception the exception
184 */
185 @Test
186 public void testgetMyDetails() throws Exception {
187 mockMvc.perform(get("http://localhost:8007/api/v1/crowd/user/myDetails")
188 .header("X_Auth_Token", user1.getAuthToken())
189 .contentType(MediaType.APPLICATION JSON)).
```

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 102 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: setup Enclosing Method: setup()

File: src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java:102



Low

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 102 (Poor Error Handling: Overly Broad Throws)

Low

```
* @throws Exception the exception
100
    */
101 @BeforeClass
102 public void setup() throws Exception {
103 this.mockMvc = MockMvcBuilders.webAppContextSetup(this.wac).build();
104
105 /*int i;
```

src/test/java/com/cts/dcrowd/rest/app/repository/

CampaignControllerTestNG.java, line 111 (Poor Error Handling: Overly Broad

Low

Throws)

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: testgetCurrentCampaignOfUser **Enclosing Method:** testgetCurrentCampaignOfUser()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:111

Taint Flags:

```
108 * @throws Exception the exception
109 */
110 @Test
111 public void testgetCurrentCampaignOfUser() throws Exception {
112
113 mockMvc.perform(get("http://localhost:8007/api/v1/crowd/campaigns/currentCampaign")
114 .header("X Auth Token", user.getAuthToken())
```

Package: com.cts.dcrowd.rest.app.security.configuration

src/main/java/com/cts/dcrowd/rest/app/security/configuration/ WebSecurityConfiguration.java, line 172 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: authenticationManagerBean Enclosing Method: authenticationManagerBean()

File: src/main/java/com/cts/dcrowd/rest/app/security/configuration/WebSecurityConfiguration.java:172

Taint Flags:

169 */



Low

Package: com.cts.dcrowd.rest.app.security.configuration

src/main/java/com/cts/dcrowd/rest/app/security/configuration/ WebSecurityConfiguration.java, line 172 (Poor Error Handling: Overly Broad Throws)

Low

```
170  @Bean
171  @Override
172  public AuthenticationManager authenticationManagerBean() throws Exception {
173   return super.authenticationManagerBean();
174  }
175
```

src/main/java/com/cts/dcrowd/rest/app/security/configuration/ WebSecurityConfiguration.java, line 97 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: configure **Enclosing Method:** configure()

File: src/main/java/com/cts/dcrowd/rest/app/security/configuration/WebSecurityConfiguration.java:97

Taint Flags:

```
94 * @see
org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerAdapter#cc
95 */
96 @Override
97 protected void configure(HttpSecurity httpSecurity) throws Exception {
98
99 httpSecurity
100 .sessionManagement()
```

src/main/java/com/cts/dcrowd/rest/app/security/configuration/ WebSecurityConfiguration.java, line 182 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: configure **Enclosing Method:** configure()

File: src/main/java/com/cts/dcrowd/rest/app/security/configuration/WebSecurityConfiguration.java:182

Taint Flags:

179 * @see

org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerAdapter#co



Low

Package: com.cts.dcrowd.rest.app.security.configuration

src/main/java/com/cts/dcrowd/rest/app/security/configuration/ WebSecurityConfiguration.java, line 182 (Poor Error Handling: Overly Broad Throws)

Low

```
180 */
181 @Override

182 public void configure(AuthenticationManagerBuilder auth) throws Exception {
183 if("db".equals(this.authType)) {
184 auth.userDetailsService(userDetailsServiceBean());
185 }
```

src/main/java/com/cts/dcrowd/rest/app/security/configuration/ WebSecurityConfiguration.java, line 150 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: authenticationTokenFilterBean **Enclosing Method:** authenticationTokenFilterBean()

File: src/main/java/com/cts/dcrowd/rest/app/security/configuration/WebSecurityConfiguration.java:150

Taint Flags:

```
147 * @throws Exception the exception
148 */
149 @Bean
150 public AuthenticationTokenFilter authenticationTokenFilterBean() throws Exception {
151 AuthenticationTokenFilter authenticationTokenFilter = new AuthenticationTokenFilter();
152 authenticationTokenFilter.setAuthenticationManager(authenticationManagerBean());
153 LOGGER.debug("AuthenticationTokenFilter :: Bean Intialized");
```

src/main/java/com/cts/dcrowd/rest/app/security/configuration/ WebSecurityConfiguration.java, line 244 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: IdapAuthenticator **Enclosing Method:** IdapAuthenticator()

File: src/main/java/com/cts/dcrowd/rest/app/security/configuration/WebSecurityConfiguration.java:244

```
241 * @throws Exception the exception
242 */
243 @Bean
```



Low

Package: com.cts.dcrowd.rest.app.security.configuration

src/main/java/com/cts/dcrowd/rest/app/security/configuration/ WebSecurityConfiguration.java, line 244 (Poor Error Handling: Overly Broad Throws)

Low

```
244  public LdapAuthenticator ldapAuthenticator() throws Exception {
245  BaseLdapPathContextSource contextSource = ldapContextSource();
246  BindAuthenticator authenticator = new BindAuthenticator(contextSource);
247  authenticator.setUserSearch(new FilterBasedLdapUserSearch("", searchFilter, contextSource));
```

src/main/java/com/cts/dcrowd/rest/app/security/configuration/ MongoSecurityConfiguration.java, line 74 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: mongo Enclosing Method: mongo()

File: src/main/java/com/cts/dcrowd/rest/app/security/configuration/MongoSecurityConfiguration.java:74

Taint Flags:

```
71 * @see org.springframework.data.mongodb.config.AbstractMongoConfiguration#mongo()
72 */
73 @Override
74 public Mongo mongo() throws Exception {
75 return new MongoClient(Collections.singletonList(new ServerAddress(this.host, Integer.valueOf(this.port)))
76 , Collections.singletonList(MongoCredential.createScramShalCredential(this.username, this.database, this.password.toCharArray())));
77 }
```

src/main/java/com/cts/dcrowd/rest/app/security/configuration/ MongoSecurityConfiguration.java, line 105 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: mongoTemplate
Enclosing Method: mongoTemplate()

File: src/main/java/com/cts/dcrowd/rest/app/security/configuration/MongoSecurityConfiguration.java:105

Taint Flags:

102 */
103 @Override



Poor Error Handling: Overly Broad Throws

Low

Package: com.cts.dcrowd.rest.app.security.configuration

src/main/java/com/cts/dcrowd/rest/app/security/configuration/ MongoSecurityConfiguration.java, line 105 (Poor Error Handling: Overly Broad Throws)

Low

```
104  @Bean
105  public MongoTemplate mongoTemplate() throws Exception{
106  return new MongoTemplate(mongo(), getDatabaseName());
107  }
108 }
```

src/main/java/com/cts/dcrowd/rest/app/security/configuration/ WebSecurityConfiguration.java, line 259 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: IdapAuthoritiesPopulator **Enclosing Method:** IdapAuthoritiesPopulator()

File: src/main/java/com/cts/dcrowd/rest/app/security/configuration/WebSecurityConfiguration.java:259

Taint Flags:

```
256 * @throws Exception the exception
257 */
258 @Bean
259 public LdapAuthoritiesPopulator ldapAuthoritiesPopulator() throws Exception {
260 DefaultLdapAuthoritiesPopulator defaultAuthPopulator = new
DefaultLdapAuthoritiesPopulator(ldapContextSource(), "");
261 defaultAuthPopulator.setGroupRoleAttribute(groupRoleAttribute);
262 LOGGER.debug("LdapAuthoritiesPopulator :: Bean Intialized");
```

src/main/java/com/cts/dcrowd/rest/app/security/configuration/ WebSecurityConfiguration.java, line 215 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: IdapAuthenticationProvider **Enclosing Method:** IdapAuthenticationProvider()

File: src/main/java/com/cts/dcrowd/rest/app/security/configuration/WebSecurityConfiguration.java:215

```
212 * @throws Exception the exception
213 */
214 @Bean
```



Poor Error Handling: Overly Broad Throws

Low

Package: com.cts.dcrowd.rest.app.security.configuration

src/main/java/com/cts/dcrowd/rest/app/security/configuration/ WebSecurityConfiguration.java, line 215 (Poor Error Handling: Overly Broad Throws)

Low

215 public LdapAuthenticationProvider ldapAuthenticationProvider() throws Exception {
216 LdapAuthenticationProvider authProvider = new
LdapAuthenticationProvider(ldapAuthenticator(), ldapAuthoritiesPopulator());
217 authProvider.setUserDetailsContextMapper(userDetailsContextMapper());
218 LOGGER.debug("LdapAuthenticationProvider :: Bean Intialized");

src/main/java/com/cts/dcrowd/rest/app/security/configuration/ WebSecurityConfiguration.java, line 229 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: IdapContextSource Enclosing Method: IdapContextSource()

File: src/main/java/com/cts/dcrowd/rest/app/security/configuration/WebSecurity/Configuration.java:229

Taint Flags:

226 * @throws Exception the exception
227 */
228 @Bean
229 public BaseLdapPathContextSource | dapContextSource() | throws Exception {
230 DefaultSpringSecurityContextSource contextSource = new
 DefaultSpringSecurityContextSource(|dapFullUrl);
231 contextSource.setUserDn(userDn);
232 contextSource.setPassword(password);

src/main/java/com/cts/dcrowd/rest/app/security/configuration/ WebSecurityConfiguration.java, line 202 (Poor Error Handling: Overly Broad Throws)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: userDetailsServiceBean Enclosing Method: userDetailsServiceBean()

File: src/main/java/com/cts/dcrowd/rest/app/security/configuration/WebSecurityConfiguration.java:202

Taint Flags:

199 * @see
org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerAdapter#us
200 */



Poor	Error Handling: Overly Broad Throws	Low			
Packa	age: com.cts.dcrowd.rest.app.security.configuration				
WebS	src/main/java/com/cts/dcrowd/rest/app/security/configuration/ WebSecurityConfiguration.java, line 202 (Poor Error Handling: Overly Broad Throws)				
201	@Override				
202	<pre>public UserDetailsService userDetailsServiceBean() throws Exception {</pre>				
203	<pre>return dCrowdUserDetailsService();</pre>				
204	}				
205					



Poor Error Handling: Program Catches NullPointerException (1 issue)

Abstract

It is generally a bad practice to catch NullPointerException.

Explanation

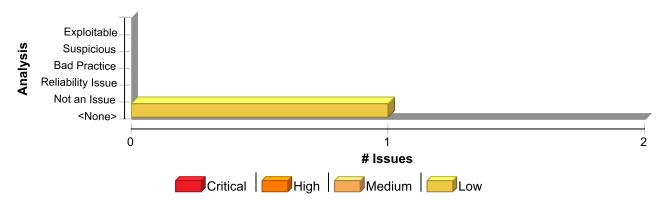
Programmers typically catch <code>NullPointerException</code> under three circumstances: 1. The program contains a null pointer dereference. Catching the resulting exception was easier than fixing the underlying problem. 2. The program explicitly throws a <code>NullPointerException</code> to signal an error condition. 3. The code is part of a test harness that supplies unexpected input to the classes under test. Of these three circumstances, only the last is acceptable. <code>Example:</code> The following code mistakenly catches a <code>NullPointerException</code>.

```
try {
   mysteryMethod();
}
catch (NullPointerException npe) {
}
```

Recommendation

The program should not dereference null pointers. If you cannot eliminate the cause of the null pointer dereference, you must carefully review the code to make sure that the exception is handled in such a way that the program does not enter into an unexpected or illegal state. If the NullPointerException is being thrown explicitly, change the program to throw an exception derived from RuntimeException or Error instead.

Issue Summary



Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
Poor Error Handling: Program Catches NullPointerException	1	0	0	1
Total	1	0	0	1



Poor Error Handling: Program Catches NullPointerException	Low
Package: com.cts.dcrowd.rest.defect.app.services.impl	
src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/ DefaultDefectServiceImpl.java, line 504 (Poor Error Handling: Program Catches NullPointerException)	Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock

Enclosing Method: defectNameBuilder()

File: src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/DefaultDefectServiceImpl.java:504

```
501 String defPrefix;
502 try {
503 campaignsCount = defectEntryRepository.countByDeCampaignId(defectEntry.getDeCampaignId());
504 } catch(NullPointerException e) {
505 campaignsCount = 0;
506 }
507 if(defectEntry.getDeCampaignName().length()>=3) {
```



Poor Error Handling: Throw Inside Finally (3 issues)

Abstract

Using a throw statement inside a finally block breaks the logical progression through the try-catch-finally.

Explanation

In Java, finally blocks are always executed after their corresponding try-catch blocks and are often used to free allocated resources, such as file handles or database cursors. Throwing an exception in a finally block can bypass critical cleanup code since normal program execution will be disrupted. Example 1: In the following code, the call to stmt.close() is bypassed when the FileNotFoundException is thrown. public void processTransaction(Connection conn) throws FileNotFoundException { FileInputStream fis = null; Statement stmt = null; try stmt = conn.createStatement(); fis = new FileInputStream("badFile.txt"); catch (FileNotFoundException fe) log("File not found."); catch (SQLException se) //handle error finally if (fis == null) throw new FileNotFoundException(); } if (stmt != null) try stmt.close(); catch (SQLException e) log(e); }

This category is from the Cigital Java Rulepack. http://www.cigital.com/

Recommendation

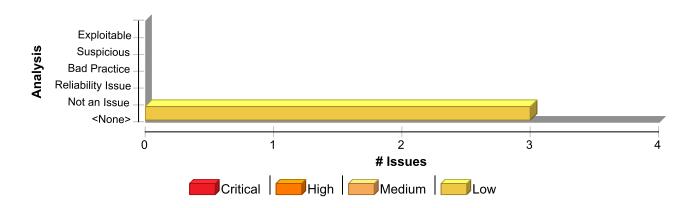
Never throw exceptions from within finally blocks. If you must re-throw an exception, do it inside a



```
catch block so as not to interrupt the normal execution of the finally block. Example 2: The following
code re-throws the FileNotFoundException in the catch block.
public void processTransaction(Connection conn) throws FileNotFoundException
    FileInputStream fis = null;
    Statement stmt = null;
    try
        stmt = conn.createStatement();
        fis = new FileInputStream("badFile.txt");
    catch (FileNotFoundException fe)
        log("File not found.");
        throw fe;
    catch (SQLException se)
        //handle error
    finally
        if (fis != null)
             try
                 fis.close();
             catch (IOException ie)
                 log(ie);
         }
        if (stmt != null)
             try
                 stmt.close();
             catch (SQLException e)
                 log(e);
        }
```

Issue Summary





Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
Poor Error Handling: Throw Inside Finally	3	0	0	3
Total	3	0	0	3

Poor Error Handling: Throw Inside Finally	Low
Package: com.cts.dcrowd.rest.app.utils	
src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 679 (Poor Error Handling: Throw Inside Finally)	Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: FinallyBlock

Enclosing Method: writeFileToFileServer()

File: src/main/java/com/cts/dcrowd/rest/app/utils/Util.java:679

Taint Flags:

```
676  new File(fileDIR).mkdirs();
677  }
678  file = new File(finalFilePath);
679  try (ByteArrayInputStream inputStream = new ByteArrayInputStream(imageData)) {
680
681  if (!file.exists()) {
682  file.createNewFile();
```

src/main/java/com/cts/dcrowd/rest/app/utils/StopwordUtility.java, line 58 (Poor Error Handling: Throw Inside Finally)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: FinallyBlock

Enclosing Method: loadStopList()



Poor Error Handling: Throw Inside Finally

Low

Package: com.cts.dcrowd.rest.app.utils

src/main/java/com/cts/dcrowd/rest/app/utils/StopwordUtility.java, line 58 (Poor Error Handling: Throw Inside Finally)

Low

File: src/main/java/com/cts/dcrowd/rest/app/utils/StopwordUtility.java:58 **Taint Flags:**

```
55 private synchronized void loadStopList() throws IOException {
56  stoplist = new LinkedHashSet<> (256);
57  try (BufferedReader br = new BufferedReader(
58  new InputStreamReader(StopwordUtility.class.getResourceAsStream("/stoplist.txt")))) {
59  String line;
60  while ((line = br.readLine()) != null) {
61  String stopword = line.trim();
```

src/main/java/com/cts/dcrowd/rest/app/utils/EmailDomainFilterUtility.java, line 56 (Poor Error Handling: Throw Inside Finally)

Low

Issue Details

Kingdom: Errors

Scan Engine: SCA (Structural)

Sink Details

Sink: FinallyBlock

Enclosing Method: loadDomainList()

File: src/main/java/com/cts/dcrowd/rest/app/utils/EmailDomainFilterUtility.java:56

```
53 private synchronized void loadDomainList() throws IOException {
54  emailDomainList = new LinkedHashSet<>(256);
55  try (BufferedReader br = new BufferedReader(
56  new InputStreamReader(EmailDomainFilterUtility.class.getResourceAsStream("/domain_filter.txt")))) {
57  String line;
58  while ((line = br.readLine()) != null) {
59  String stopword = line.trim();
```



Poor Logging Practice: Use of a System Output Stream (3 issues)

Abstract

Using System.out or System.err rather than a dedicated logging facility makes it difficult to monitor the behavior of the program.

Explanation

Example 1: The first Java program that a developer learns to write often looks like this:

```
public class MyClass
  public static void main(String[] args) {
    System.out.println("hello world");
  }
}
```

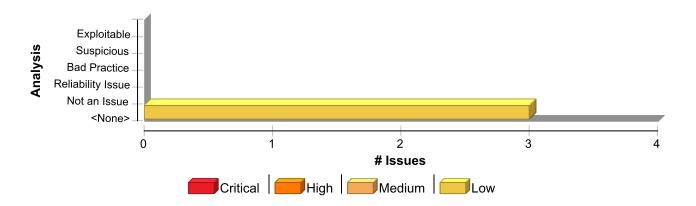
While most programmers go on to learn many nuances and subtleties about Java, a surprising number hang on to this first lesson and never give up on writing messages to standard output using System.out.println(). The problem is that writing directly to standard output or standard error is often used as an unstructured form of logging. Structured logging facilities provide features like logging levels, uniform formatting, a logger identifier, timestamps, and, perhaps most critically, the ability to direct the log messages to the right place. When the use of system output streams is jumbled together with the code that uses loggers properly, the result is often a well-kept log that is missing critical information. Developers widely accept the need for structured logging, but many continue to use system output streams in their "preproduction" development. If the code you are reviewing is past the initial phases of development, use of System.out or System.err may indicate an oversight in the move to a structured logging system.

Recommendation

Use a Java logging facility rather than System.out or System.err. **Example 2:** For example, the "hello world" program above can be re-written using log4j like this:

Issue Summary





Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
Poor Logging Practice: Use of a System Output Stream	3	0	0	3
Total	3	0	0	3

Poor Logging Practice: Use of a System Output Stream	Low
Package: .com.cts.dcrowd.rest.defect.app.jira.services	
src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 242 (Poor Logging Practice: Use of a System Output Stream)	Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Structural)

Sink Details

Sink: FunctionCall: println Enclosing Method: accept()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:242

Taint Flags:

```
239 String serverUrl = issueURL + "/attachments";
240 RestTemplate restTemplate = new RestTemplate();
241 ResponseEntity<String> response1 = restTemplate.postForEntity(serverUrl, requestEntity, String.class);
242 System.out.println(response1);
243
244 } catch (Exception e) {
245 // TODO Auto-generated catch block
```

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/

CampaignControllerTestNG.java, line 181 (Poor Logging Practice: Use of a

System Output Stream)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Structural)



Poor Logging Practice: Use of a System Output Stream Package: com.cts.dcrowd.rest.app.repository src/test/java/com/cts/dcrowd/rest/app/repository/ CampaignControllerTestNG.java, line 181 (Poor Logging Practice: Use of a System Output Stream) Low

Sink Details

Sink: FunctionCall: println

Enclosing Method: testopenForNomination()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:181

Taint Flags:

```
178 ObjectMapper mapper = new ObjectMapper();
179 String createdCampaign = mapper.writeValueAsString(campaign);
180 String openForNomination = "{ \"param\": " +createdCampaign+"}";
181 System.out.println("openForNomination:"+openForNomination);
182 mockMvc.perform(post("http://localhost:8007/api/v1/crowd/campaigns/openForNomination")
183 .header("X_Auth_Token", user.getAuthToken())
184 .contentType(MediaType.APPLICATION_JSON)
```

Package: com.cts.dcrowd.rest.app.util

src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java, line 102 (Poor Logging Practice: Use of a System Output Stream)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Structural)

Sink Details

Sink: FunctionCall: println

Enclosing Method: generateBlowFishDecryptValue()

File: src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java:102

```
99 cipher.init(Cipher.DECRYPT_MODE, skeyspec);
100 byte[] decrypted = cipher.doFinal(Base64.getDecoder().decode(encryptedValue));
101 strData = new String(decrypted);
102 System.out.println(strData);
103 } catch (Exception e) {
104 e.printStackTrace();
105 }
```



Poor Style: Confusing Naming (1 issue)

Abstract

The class contains a field and a method with the same name.

Explanation

It is confusing to have a member field and a method with the same name. It makes it easy for a programmer to accidentally call the method when attempting to access the field or vice versa. **Example 1:**

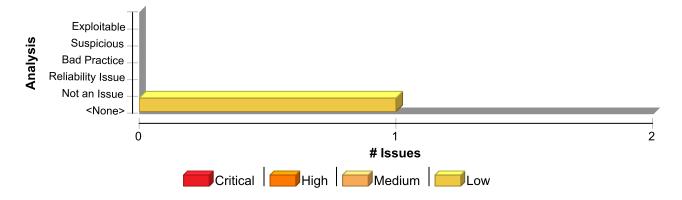
```
public class Totaller {
  private int total;
  public int total() {
    ...
  }
}
```

Recommendation

Rename either the method or the field. If the method returns the field, consider following the standard getter/setter naming convention. **Example 2:** The code in Example 1 could be rewritten in the following way:

```
public class Totaller {
  private int total;
  public int getTotal() {
    ...
  }
}
```

Issue Summary



Engine Breakdown

	SCA	Weblnspect	SecurityScope	l otal
Poor Style: Confusing Naming	1	0	0	1
Total	1	0	0	1



Poor Style: Confusing Naming	Low
Package: com.cts.dcrowd.rest.app.security.configuration	
src/main/java/com/cts/dcrowd/rest/app/security/configuration/ WebSecurityConfiguration.java, line 91 (Poor Style: Confusing Naming)	Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)

Sink Details

Sink: Field: securityService

File: src/main/java/com/cts/dcrowd/rest/app/security/configuration/WebSecurityConfiguration.java:91

```
88
89 /** The security service. */
90 @Autowired
91 private SecurityService securityService;
92
93 /* (non-Javadoc)
94 * @see
org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerAdapter#co
```

Poor Style: Redundant Initialization (1 issue)

Abstract

The variable's value is assigned but never used, making it a dead store.

Explanation

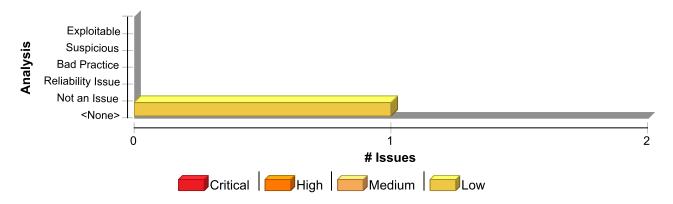
This variable's initial value is not used. After initialization, the variable is either assigned another value or goes out of scope. **Example:** The following code excerpt assigns to the variable x and then overwrites the value without using it.

```
int r = getNum();
r = getNewNum(buf);
```

Recommendation

Remove unnecessary assignments in order to make the code easier to understand and maintain.

Issue Summary



Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Poor Style: Redundant Initialization	1	0	0	1
Total	1	0	0	1

Poor Style: Redundant Initialization	Low
Package: com.cts.dcrowd.rest.app.utils	
src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 444 (Poor Style: Redundant Initialization)	Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: score

Enclosing Method: setFuzzyScore()

File: src/main/java/com/cts/dcrowd/rest/app/utils/Util.java:444



Poor Style: Redundant Initialization	Low
Package: com.cts.dcrowd.rest.app.utils	
src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 444 (Poor Style: Redundant Initialization)	Low

```
441 * @return the long
442 */
443 public static double setFuzzyScore(String defectTerm, String defectQuery) {
444 double score = 0.0;
445 try {
446 FuzzyScore fScore = new FuzzyScore(Locale.getDefault());
447 score = fScore.fuzzyScore(defectTerm, defectQuery);
```



Poor Style: Value Never Read (78 issues)

Abstract

The variable's value is assigned but never used, making it a dead store.

Explanation

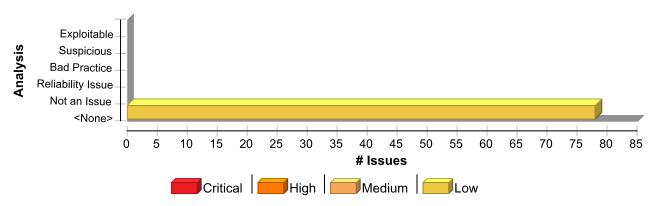
This variable's value is not used. After the assignment, the variable is either assigned another value or goes out of scope. **Example:** The following code excerpt assigns to the variable r and then overwrites the value without using it.

```
r = getName();
r = getNewBuffer(buf);
```

Recommendation

Remove unnecessary assignments in order to make the code easier to understand and maintain.

Issue Summary



Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
Poor Style: Value Never Read	78	0	0	78
Total	78	0	0	78

Poor Style: Value Never Read	Low			
Package: .com.cts.dcrowd.rest.app.service.helper				
src/main/java/com/cts/dcrowd/rest/app/service/helper/ CampaignServiceHelper.java, line 455 (Poor Style: Value Never Read)	Low			

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: valueStringObj

Enclosing Method: apply()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/CampaignServiceHelper.java:455



Poor Style: Value Never Read Package: .com.cts.dcrowd.rest.app.service.helper src/main/java/com/cts/dcrowd/rest/app/service/helper/ CampaignServiceHelper.java, line 455 (Poor Style: Value Never Read)

Taint Flags:

```
452 if(!category.equalsIgnoreCase("department")) {
453  List<?> valueObjList = (List<?>) value;
454  for(Object valueObj : valueObjList) {
455   String valueStringObj = String.valueOf(valueObj);
456  if(category.equalsIgnoreCase("devices")) {
457  type = "deviceType";
458 }
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/CampaignServiceHelper.java, line 370 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: filterObject **Enclosing Method:** accept()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/CampaignServiceHelper.java:370

Taint Flags:

```
367 if(!Util.isEmpty(filterByState)) {
368 for(Object filterTagValue : (List<?>) filterTags.getValue()) {
369 try {
370    JSONObject filterObject = convertObjectToJson(filterTagValue);
371    if(filterObject.getString("state_code").equals(filterByState.getAddress().getState())) {
372
    if(filterObject.getString("country_code").equals(filterByState.getAddress().getCountry())) {
373    userListAfterStateFilter.add(filterByState);
```

Package: .com.cts.dcrowd.rest.defect.app.jira.services

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 240 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: restTemplate **Enclosing Method:** accept()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:240



Low

Package: .com.cts.dcrowd.rest.defect.app.jira.services

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 240 (Poor Style: Value Never Read)

Low

```
237 org.springframework.http.HttpEntity<LinkedMultiValueMap<String, Object>> requestEntity =
new org.springframework.http.HttpEntity<>(
238 map, headers);
239 String serverUrl = issueURL + "/attachments";
240 RestTemplate restTemplate = new RestTemplate();
241 ResponseEntity<String> response1 = restTemplate.postForEntity(serverUrl, requestEntity,
String.class);
242 System.out.println(response1);
243
```

Package: com.cts.dcrowd.rest.app.controller

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 784 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: status

Enclosing Method: removeCampaign()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:784

Taint Flags:

```
781 {
782 int status = 200;
783 try {
784 status = campaignService.removeCampaign(campaignId);
785 return buildSuccessResponse("Campaign removed from the system successfully");
786 } catch (DcrowdException de) {
787 de.printStackTrace();
```

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/

CampaignControllerTestNG.java, line 291 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)

Sink Details

Sink: VariableAccess: feedback

Enclosing Method: testsaveFeedback()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:291



Low

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/ CampaignControllerTestNG.java, line 291 (Poor Style: Value Never Read)

Low

```
288 @Test
289 public void testsaveFeedback() throws Exception {
290    JSONObject jsonObj = TestUtil.readJsonObject(new File("src/test/resources/
    CampaignJson.txt"));
291    String feedback = jsonObj.get("feedback").toString();
292    mockMvc.perform(post("http://localhost:8007/api/v1/crowd/campaigns/moderator/
    saveFeedback/"+campaign.get_id())
293    .header("X_Auth_Token", user.getAuthToken())
294    .contentType(MediaType.APPLICATION_JSON).content(feedback)).
```

src/test/java/com/cts/dcrowd/rest/app/repository/

Low

CampaignControllerTestNG.java, line 160 (Poor Style: Value Never Read)

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: campaignJson **Enclosing Method:** testsaveCampaign()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:160

Taint Flags:

```
157  public void testsaveCampaign() throws Exception {
158
159   JSONObject jsonObj = TestUtil.readJsonObject(new File("src/test/resources/
CampaignJson.txt"));
160   String campaignJson = jsonObj.get("campaign").toString();
161   mockMvc.perform(post("http://localhost:8007/api/v1/crowd/campaigns/saveCampaign")
162   .header("X_Auth_Token", user.getAuthToken())
163   .contentType(MediaType.APPLICATION_JSON)
```

src/test/java/com/cts/dcrowd/rest/app/repository/ CampaignControllerTestNG.java, line 178 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: mapper

Enclosing Method: testopenForNomination()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:178

Taint Flags:

175 */ 176 @Test



Low

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/

CampaignControllerTestNG.java, line 178 (Poor Style: Value Never Read)

Low

```
public void testopenForNomination() throws Exception {
    178    ObjectMapper mapper = new ObjectMapper();
    179    String createdCampaign = mapper.writeValueAsString(campaign);
    180    String openForNomination = "{ \"param\": " +createdCampaign+"}";
    181    System.out.println("openForNomination:"+openForNomination);
```

src/test/java/com/cts/dcrowd/rest/app/repository/

Low

CampaignControllerTestNG.java, line 246 (Poor Style: Value Never Read)

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: users

Enclosing Method: testconfirmTeam()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:246

Taint Flags:

```
public void testconfirmTeam() throws Exception {
244

245   JSONObject jsonObj = TestUtil.readJsonObject(new File("src/test/resources/
   CampaignJson.txt"));

246   String users = jsonObj.get("users").toString();

247   mockMvc.perform(post("http://localhost:8007/api/v1/crowd/campaigns/
   confirmTeam/"+campaign.get_id())

248   .header("X_Auth_Token", user.getAuthToken())

249   .contentType(MediaType.APPLICATION_JSON).content(users)).
```

src/test/java/com/cts/dcrowd/rest/app/repository/BadgeControllerTestNG.java, line 95 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: jsonObj **Enclosing Method:** testaddBadge()

File: src/test/java/com/cts/dcrowd/rest/app/repository/BadgeControllerTestNG.java:95

```
92 @Test
93 public void testaddBadge() throws Exception
94 {
95   JSONObject jsonObj = TestUtil.readJsonObject(new File("src/test/resources/badgeJson.txt"));
96   String badgeJson = jsonObj.get("badge").toString();
```



Low

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/BadgeControllerTestNG.java, line 95 (Poor Style: Value Never Read)

Low

97

98 mockMvc.perform(post("http://localhost:8007/api/v1/crowd/admin/badge/add")

src/test/java/com/cts/dcrowd/rest/app/repository/

CampaignControllerTestNG.java, line 159 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: jsonObj

Enclosing Method: testsaveCampaign()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:159

Taint Flags:

```
156 */
157 public void testsaveCampaign() throws Exception {
158
159   JSONObject jsonObj = TestUtil.readJsonObject(new File("src/test/resources/
CampaignJson.txt"));
160   String campaignJson = jsonObj.get("campaign").toString();
161   mockMvc.perform(post("http://localhost:8007/api/v1/crowd/campaigns/saveCampaign")
162   .header("X_Auth_Token", user.getAuthToken())
```

src/test/java/com/cts/dcrowd/rest/app/repository/BadgeControllerTestNG.java, line 96 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: badgeJson Enclosing Method: testaddBadge()

File: src/test/java/com/cts/dcrowd/rest/app/repository/BadgeControllerTestNG.java:96



Low

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 243 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: cityld

Enclosing Method: testLocationgetTopPerformers()

File: src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java:243

Taint Flags:

```
240 */
241 @Test
242 public void testLocationgetTopPerformers() throws Exception {
243   City cityId = masterService.getCityIdByName("coimbatore");
244   mockMvc.perform(get("http://localhost:8007/api/v1/crowd/users/topLocationPerformers/"+cityId+"/1/2")
245   .header("X_Auth_Token", user1.getAuthToken())
246   .contentType(MediaType.APPLICATION_JSON)).
```

src/test/java/com/cts/dcrowd/rest/app/repository/ CampaignControllerTestNG.java, line 290 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: jsonObj

Enclosing Method: testsaveFeedback()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:290

Taint Flags:

```
287 */
288 @Test
289 public void testsaveFeedback() throws Exception {
290   JSONObject jsonObj = TestUtil.readJsonObject(new File("src/test/resources/
CampaignJson.txt"));
291   String feedback = jsonObj.get("feedback").toString();
292   mockMvc.perform(post("http://localhost:8007/api/v1/crowd/campaigns/moderator/
saveFeedback/"+campaign.get_id())
293   .header("X_Auth_Token", user.getAuthToken())
```

src/test/java/com/cts/dcrowd/rest/app/repository/

CampaignControllerTestNG.java, line 245 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality



Low

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/

CampaignControllerTestNG.java, line 245 (Poor Style: Value Never Read)

Low

Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: jsonObj

Enclosing Method: testconfirmTeam()

File: src/test/java/com/cts/dcrowd/rest/app/repository/CampaignControllerTestNG.java:245

Taint Flags:

```
242  @Test
243  public void testconfirmTeam() throws Exception {
244
245  JSONObject jsonObj = TestUtil.readJsonObject(new File("src/test/resources/
CampaignJson.txt"));
246  String users = jsonObj.get("users").toString();
247  mockMvc.perform(post("http://localhost:8007/api/v1/crowd/campaigns/
confirmTeam/"+campaign.get_id())
248  .header("X Auth Token", user.getAuthToken())
```

Package: com.cts.dcrowd.rest.app.security

src/main/java/com/cts/dcrowd/rest/app/security/LdapUserDetailsMapper.java, line 217 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: citv

Enclosing Method: insertNewUser()

File: src/main/java/com/cts/dcrowd/rest/app/security/LdapUserDetailsMapper.java:217

Taint Flags:

```
214 addressNew.setCity(context.getStringAttribute("1"));
215 City city = masterService.getCityIdByName(context.getStringAttribute("1"));
216 if(Util.isEmpty(city)) {
217 city = masterService.createMissingCity(context.getStringAttribute("1"));
218 }
219
220
```

src/main/java/com/cts/dcrowd/rest/app/security/ApplicationAuthProvider.java, line 144 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality

Scan Engine: SCA (Structural)



Low

Package: com.cts.dcrowd.rest.app.security

src/main/java/com/cts/dcrowd/rest/app/security/ApplicationAuthProvider.java, line 144 (Poor Style: Value Never Read)

Low

Sink Details

Sink: VariableAccess: sslContextBuilder **Enclosing Method:** authenticateEmployee()

File: src/main/java/com/cts/dcrowd/rest/app/security/ApplicationAuthProvider.java:144

Taint Flags:

```
141
142 if(password != null && password != ""){
143 requestFactory = new HttpComponentsClientHttpRequestFactory();
144 SSLContextBuilder sslContextBuilder = new SSLContextBuilder();
145 sslContextBuilder.loadTrustMaterial(null, new TrustStrategy() {
146 @Override
147 public boolean isTrusted(X509Certificate[] chain, String authType) throws
CertificateException {
```

src/main/java/com/cts/dcrowd/rest/app/security/ApplicationAuthProvider.java, line 151 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)

Sink Details

Sink: VariableAccess: sslConnectionSocketFactory **Enclosing Method:** authenticateEmployee()

File: src/main/java/com/cts/dcrowd/rest/app/security/ApplicationAuthProvider.java:151

Taint Flags:

```
148  return true;
149  }
150  });
151  SSLConnectionSocketFactory sslConnectionSocketFactory = new
SSLConnectionSocketFactory(sslContextBuilder.build());
152  httpClient = HttpClients.custom().setSSLSocketFactory(sslConnectionSocketFactory).build();
153  requestFactory.setHttpClient(httpClient);
154  RestTemplate restTemplate = new RestTemplate(requestFactory);
```

src/main/java/com/cts/dcrowd/rest/app/security/ApplicationAuthProvider.java, line 154 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)

Sink Details

Sink: VariableAccess: restTemplate



Low

Package: com.cts.dcrowd.rest.app.security

src/main/java/com/cts/dcrowd/rest/app/security/ApplicationAuthProvider.java, line 154 (Poor Style: Value Never Read)

Low

Enclosing Method: authenticateEmployee()

File: src/main/java/com/cts/dcrowd/rest/app/security/ApplicationAuthProvider.java:154

Taint Flags:

```
151    SSLConnectionSocketFactory sslConnectionSocketFactory = new
    SSLConnectionSocketFactory(sslContextBuilder.build());
152    httpClient = HttpClients.custom().setSSLSocketFactory(sslConnectionSocketFactory).build();
153    requestFactory.setHttpClient(httpClient);
154    RestTemplate restTemplate = new RestTemplate(requestFactory);
155    MultiValueMap<String, String> map = new LinkedMultiValueMap<>();
156    map.add("username", username);
157    map.add("password", password);
```

src/main/java/com/cts/dcrowd/rest/app/security/LdapUserDetailsMapperWS.java, line 193 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: city

Enclosing Method: insertNewUserWebService()

File: src/main/java/com/cts/dcrowd/rest/app/security/LdapUserDetailsMapperWS.java:193

Taint Flags:

```
190 addressNew.setCity(ldapValues.get("city").toString());
191 City city = masterService.getCityIdByName(ldapValues.get("city").toString());
192 if (Util.isEmpty(city)) {
193 city = masterService.createMissingCity(ldapValues.get("city").toString());
194 }
195
196 }
```

Package: com.cts.dcrowd.rest.app.service

src/main/java/com/cts/dcrowd/rest/app/service/BadgeService.java, line 240 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: gfsPhoto

Enclosing Method: getImageByFileName()

File: src/main/java/com/cts/dcrowd/rest/app/service/BadgeService.java:240



Low

Package: com.cts.dcrowd.rest.app.service

src/main/java/com/cts/dcrowd/rest/app/service/BadgeService.java, line 240 (Poor Style: Value Never Read)

Low

Taint Flags:

```
237 * @return the image by file name
238 */
239 private GridFSDBFile getImageByFileName(String fileName) {
240 GridFS gfsPhoto = new GridFS(db, BADGE_IMAGE_REPO);
241 return gfsPhoto.findOne(fileName);
242 }
243
```

src/main/java/com/cts/dcrowd/rest/app/service/BadgeService.java, line 251 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: gfsPhoto **Enclosing Method:** removeImage()

File: src/main/java/com/cts/dcrowd/rest/app/service/BadgeService.java:251

Taint Flags:

```
248 */
249 public void removeImage(String fileName)
250 {
251 GridFS gfsPhoto = new GridFS(db, BADGE_IMAGE_REPO);
252 gfsPhoto.remove(gfsPhoto.findOne(fileName));
253 }
254
```

src/main/java/com/cts/dcrowd/rest/app/service/ProfileImageService.java, line 176 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: gfsPhoto

Enclosing Method: getImageByFileName()

File: src/main/java/com/cts/dcrowd/rest/app/service/ProfileImageService.java:176

```
173 * @return the image by file name
174 */
175 private GridFSDBFile getImageByFileName(String fileName) {
```



Low

Package: com.cts.dcrowd.rest.app.service

src/main/java/com/cts/dcrowd/rest/app/service/ProfileImageService.java, line 176 (Poor Style: Value Never Read)

Low

```
176  GridFS gfsPhoto = new GridFS(db, USER_IMAGE_REPO);
177  GridFSDBFile gridFsFile = gfsPhoto.findOne(fileName);
178  return gridFsFile;
179 }
```

src/main/java/com/cts/dcrowd/rest/app/service/ReportGenerationService.java, line 41 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: user

Enclosing Method: generateBadgeReport()

File: src/main/java/com/cts/dcrowd/rest/app/service/ReportGenerationService.java:41

Taint Flags:

```
38 * @throws DcrowdException the dcrowd exception
39 */
40 public List<BadgeReport> generateBadgeReport(long badgeId) throws DcrowdException {
41  UserVO user = securityService.getLoggedUser();
42  List<BadgeReport> userBadgeList = appQueryProcessor.getUserBadgeToGenerateReport(badgeId);
43  userBadgeList = userBadgeList.stream().filter(p ->
p.getCompanyId().equals(user.getCompanyId())).collect(Collectors.toList());
44  return userBadgeList;
```

src/main/java/com/cts/dcrowd/rest/app/service/EmailService.java, line 162 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)

Sink Details

Sink: VariableAccess: emailJson **Enclosing Method:** sendEmail()

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailService.java:162

```
159 map.put("id", email.getId());
160 map.put("authToken", "ZWlhaWxBdXRob3JpemF0aW9uVG9rZW4=");*/
161 try {
162    JSONObject emailJson = new JSONObject();
163    emailJson.put("authToken", authToken);
164    emailJson.put("bcc", email.getBcc());
165    emailJson.put("cc", email.getCc());
```



Low

Package: com.cts.dcrowd.rest.app.service

src/main/java/com/cts/dcrowd/rest/app/service/EmailService.java, line 162 (Poor

Style: Value Never Read)

Low

src/main/java/com/cts/dcrowd/rest/app/service/CommonService.java, line 40 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: user

Enclosing Method: getUserDetailFilter()

File: src/main/java/com/cts/dcrowd/rest/app/service/CommonService.java:40

Taint Flags:

```
* @throws DcrowdException the dcrowd exception
38 */
39 public List<CampaignUsersModel> getUserDetailFilter(Map<String, Object> filters) throws
DcrowdException {
40  UserVO user = securityService.getLoggedUser();
41  List<CampaignUsersModel> userInfoList = appQueryProcessor.getUserDetailsByFilter(filters);
42  userInfoList = userInfoList.stream().filter(p ->
p.getCompanyId().equals(user.getCompanyId())).collect(Collectors.toList());
43  return userInfoList;
```

Package: com.cts.dcrowd.rest.app.service.helper

src/main/java/com/cts/dcrowd/rest/app/service/helper/ CampaignServiceHelper.java, line 539 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: campaignUser

Enclosing Method: getModeratorLevel1RoleList()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/CampaignServiceHelper.java:539

```
536  }else if(Util.isEmpty(source1)) {
537   finalModeratorRoleList.addAll(source2);
538  } else {
539   for(CampaignUsersModel campaignUser : source1) {
540   finalModeratorRoleList = source2.stream().filter(p -> !
p.get_id().equals(campaignUser.get_id())).collect(Collectors.toList());
541  }
542 }
```



Low

Package: com.cts.dcrowd.rest.app.service.helper

src/main/java/com/cts/dcrowd/rest/app/service/helper/

ApplicationQueryProcessor.java, line 794 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: completeCriteria **Enclosing Method:** buildFilterCriteria()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/ApplicationQueryProcessor.java:794

Taint Flags:

```
791 @SuppressWarnings("unchecked")
792 public MatchOperation buildFilterCriteria(Map<String, Object> filters)
793 {
794  Criteria completeCriteria = new Criteria();
795  List<Criteria> andCriteria = new ArrayList<>();
796  List<Criteria> orCriteria = new ArrayList<>();
797  List<String> filterVal = new ArrayList<>();
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/ LdapWebserviceHelper.java, line 63 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: sslContextBuilder Enclosing Method: extractLdapValueMap()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/LdapWebserviceHelper.java:63

Taint Flags:

```
60 public Map<String, Object> extractLdapValueMap(String username)
61 {
62  HttpComponentsClientHttpRequestFactory requestFactory = new
HttpComponentsClientHttpRequestFactory();
63  SSLContextBuilder sslContextBuilder = new SSLContextBuilder();
64  Map<String, Object> ldapValues = null;
65  CloseableHttpClient httpClient = null;
66  try {
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/ ApplicationQueryProcessor.java, line 466 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)



Low

Package: com.cts.dcrowd.rest.app.service.helper

src/main/java/com/cts/dcrowd/rest/app/service/helper/

ApplicationQueryProcessor.java, line 466 (Poor Style: Value Never Read)

Low

Sink Details

Sink: VariableAccess: output

Enclosing Method: getUserDetailsByFilter()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/ApplicationQueryProcessor.java:466

Taint Flags:

```
463
    .and("email").as("userEmailId").and("address.state").as("state").and("address.country").as("co
464    .and("cityName").as("city").and("userProfile.completedProjects").as("projectsCompleted")
465    );
466    AggregationResults<CampaignUsersModel> output = mongoTemplate.aggregate(aggregation,
UserVO.class,CampaignUsersModel.class);
467    userModel = output.getMappedResults();
468    return userModel;
469 }
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/ LdapWebserviceHelper.java, line 76 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: restTemplate

Enclosing Method: extractLdapValueMap()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/LdapWebserviceHelper.java:76

Taint Flags:

src/main/java/com/cts/dcrowd/rest/app/service/helper/ LdapWebserviceHelper.java, line 73 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details



Low

Package: com.cts.dcrowd.rest.app.service.helper

src/main/java/com/cts/dcrowd/rest/app/service/helper/

LdapWebserviceHelper.java, line 73 (Poor Style: Value Never Read)

Low

Sink: VariableAccess: sslConnectionSocketFactory **Enclosing Method:** extractLdapValueMap()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/LdapWebserviceHelper.java:73

Taint Flags:

```
70  return true;
71  }
72  });
73  SSLConnectionSocketFactory sslConnectionSocketFactory = new
SSLConnectionSocketFactory(sslContextBuilder.build());
74  httpClient = HttpClients.custom().setSSLSocketFactory(sslConnectionSocketFactory).build();
75  requestFactory.setHttpClient(httpClient);
76  RestTemplate restTemplate = new RestTemplate(requestFactory);
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/

ApplicationQueryProcessor.java, line 417 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: output

Enclosing Method: getUserBadgeToGenerateReport()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/ApplicationQueryProcessor.java:417

Taint Flags:

```
414 and("cityName").as("city").and("username").as("employeeId"));
415 try
416 {
417 AggregationResults<BadgeReport> output = mongoTemplate.aggregate(aggregation,
UserVO.class, BadgeReport.class);
418 List<BadgeReport> badgeReport = output.getMappedResults();
419 return badgeReport;
420 }
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/

ApplicationQueryProcessor.java, line 716 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: user

Enclosing Method: curateModeratorCampaignListByUserId()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/ApplicationQueryProcessor.java:716



Low

Package: com.cts.dcrowd.rest.app.service.helper

src/main/java/com/cts/dcrowd/rest/app/service/helper/

ApplicationQueryProcessor.java, line 716 (Poor Style: Value Never Read)

Low

Taint Flags:

```
713  private List<CampaignVO> curateModeratorCampaignListByUserId(List<CampaignVO> campaignList, UserDetails userDetails, boolean isExternal) {
714  List<CampaignVO> curatedCampaignList = new ArrayList<>();
715  if(!isExternal) {
716  UserVO user = (UserVO) userDetails;
717  for(CampaignVO campaign : campaignList) {
718  if(CollectionUtils.isNotEmpty(campaign.getModeratorLvllUserIdList()) && campaign.getModeratorLvllUserIdList() := null && e.get_id() .equals(user.get_id()))) {
719  curatedCampaignList.add(campaign);
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/CampaignServiceHelper.java, line 571 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: campaignUser

Enclosing Method: getModeratorLevel2RoleList()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/CampaignServiceHelper.java:571

Taint Flags:

```
568 else if(Util.isEmpty(sourcel)) {
569  finalModeratorRoleList.addAll(source2);
570  }else {
571  for(CampaignUsersModel campaignUser : source1) {
572  finalModeratorRoleList = source2.stream().filter(p -> !
p.get_id().equals(campaignUser.get_id())).collect(Collectors.toList());
573  }
574 }
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/ CampaignServiceHelper.java, line 340 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: filterObject

Enclosing Method: orCriteriaFilterByCountryMatch()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/CampaignServiceHelper.java:340



Low

Package: com.cts.dcrowd.rest.app.service.helper

src/main/java/com/cts/dcrowd/rest/app/service/helper/ CampaignServiceHelper.java, line 340 (Poor Style: Value Never Read)

Low

```
337 for(Object filterTagValue : (List<?>) filterTags.getValue()) {
338 try {
339 //1. Convert object to JSON
340 JSONObject filterObject = convertObjectToJson(filterTagValue);
341 if(filterObject.getString("country_code").equals(addressObject.getCountry())) {
342 matchFound = true;
343 }
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/

Low

ApplicationQueryProcessor.java, line 371 (Poor Style: Value Never Read)

Issue Details

Kingdom: Code Quality

Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: output

Enclosing Method: findLocationLeaderByXpPoints()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/ApplicationQueryProcessor.java:371

Taint Flags:

```
368  .and("totalXPPoints").divide("noOfTesters").as("avgValue"),
369  sort(Sort.Direction.DESC, "avgValue"), limit(3));
370
371  AggregationResults<LocationLeader> output = mongoTemplate.aggregate(aggregation,
UserVO.class,
372  LocationLeader.class);
373
374  List<LocationLeader> locationLeaders = output.getMappedResults();
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/ ApplicationQueryProcessor.java, line 443 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: output

Enclosing Method: getRedeemDetailsToGenerateReport()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/ApplicationQueryProcessor.java:443

```
unwind("userRedeem"),
sort(Sort.Direction.ASC, "userRedeem.createdDate"));

442

443 AggregationResults<RedeemReport> output = mongoTemplate.aggregate(aggregation,
```



Low

Package: com.cts.dcrowd.rest.app.service.helper

src/main/java/com/cts/dcrowd/rest/app/service/helper/

ApplicationQueryProcessor.java, line 443 (Poor Style: Value Never Read)

Low

```
UserVO.class,RedeemReport.class);
444  List<RedeemReport> redeemReport = new ArrayList<RedeemReport>();
445  redeemReport = output.getMappedResults();
446  return redeemReport;
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/

Low

ApplicationQueryProcessor.java, line 726 (Poor Style: Value Never Read)

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: externalUser

Enclosing Method: curateModeratorCampaignListByUserId()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/ApplicationQueryProcessor.java:726

Taint Flags:

```
723 }
724 }
725 }else {
726 ExternalUserVO externalUser = (ExternalUserVO) userDetails;
727 for(CampaignVO campaign : campaignList) {
728 if(CollectionUtils.isNotEmpty(campaign.getExternalModeratorLvll()) && campaign.getExternalModeratorLvll().stream().anyMatch(e -> e.get_id() != null && e.get_id().equals(externalUser.get_id()))) {
729 curatedCampaignList.add(campaign);
```

Package: com.cts.dcrowd.rest.app.util

src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java, line 140 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: parser

Enclosing Method: readJsonObject()

File: src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java:140

```
137 */
138 public static JSONObject readJsonObject(File file) {
139
140 JSONParser parser = new JSONParser();
```



Low

Package: com.cts.dcrowd.rest.app.util

src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java, line 140 (Poor Style: Value Never Read)

Low

```
141 try (FileReader fileReader = new FileReader(file)) {
142 Object obj = parser.parse(fileReader);
143 JSONObject jsonObject = (JSONObject) obj;
```

src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java, line 33 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: encrypted **Enclosing Method:** main()

File: src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java:33

Taint Flags:

```
30 * @return the JSON object
31 */
32 public static void main(String[] args) {
33  String encrypted = generateBlowFishEncryptValue("password");
34  // System.out.println(generateBlowFishDecryptValue("Y3isgEgqkQUyh525Wy5M+w=="));
35  /* String encodedValue = base64Encoder("password".getBytes());
```

Package: com.cts.dcrowd.rest.app.utils

src/main/java/com/cts/dcrowd/rest/app/utils/ImageUtil.java, line 96 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: gfsPhoto

Enclosing Method: getImageByFileId()

File: src/main/java/com/cts/dcrowd/rest/app/utils/ImageUtil.java:96

```
93 */
94 public static GridFSDBFile getImageByFileId(DB db, String fileId, String repoName) {
95 ObjectId objFileId = new ObjectId(fileId);
96 GridFS gfsPhoto = new GridFS(db, repoName);
97 return gfsPhoto.findOne(objFileId);
98 }
99
```



Poor Style: Value Never Read	Low
Package: com.cts.dcrowd.rest.app.utils	
src/main/java/com/cts/dcrowd/rest/app/utils/ImageUtil.java, line 96 (Poor Style: Value Never Read)	Low

src/main/java/com/cts/dcrowd/rest/app/utils/ImageUtil.java, line 76 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: gfsPhoto **Enclosing Method:** createNewFile()

File: src/main/java/com/cts/dcrowd/rest/app/utils/ImageUtil.java:76

Taint Flags:

```
73 * @throws IOException Signals that an I/O exception has occurred.
74 */
75 private static GridFSInputFile createNewFile(DB db, MultipartFile file, String repoName, String CampaginId, String DefectId) throws IOException {
76 GridFS gfsPhoto = new GridFS(db, repoName);
77 GridFSInputFile gfsFile = gfsPhoto.createFile(file.getBytes());
78 gfsFile.put("campaignId", CampaginId);
79 gfsFile.put("defectId", DefectId);
```

src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 446 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: fScore

Enclosing Method: setFuzzyScore()

File: src/main/java/com/cts/dcrowd/rest/app/utils/Util.java:446

```
443 public static double setFuzzyScore(String defectTerm, String defectQuery) {
444  double score = 0.0;
445  try {
446  FuzzyScore fScore = new FuzzyScore(Locale.getDefault());
447  score = fScore.fuzzyScore(defectTerm, defectQuery);
448  } catch (IllegalArgumentException ile) {
449  score = 0;
```



Low

Package: com.cts.dcrowd.rest.app.utils

src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 637 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: sslConnectionSocketFactory

Enclosing Method: connectExternalUser()

File: src/main/java/com/cts/dcrowd/rest/app/utils/Util.java:637

Taint Flags:

```
return true;
f34 return true;
f35 }
f36 });
f37 sslConnectionSocketFactory = new SSLConnectionSocketFactory(sslContextBuilder.build());
f38 httpClient = HttpClients.custom().setSSLSocketFactory(sslConnectionSocketFactory).build();
f39 requestFactory.setHttpClient(httpClient);
f40 restTemplate = new RestTemplate(requestFactory);
```

src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 640 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: restTemplate Enclosing Method: connectExternalUser()

File: src/main/java/com/cts/dcrowd/rest/app/utils/Util.java:640

Taint Flags:

```
637   sslConnectionSocketFactory = new SSLConnectionSocketFactory(sslContextBuilder.build());
638   httpClient = HttpClients.custom().setSSLSocketFactory(sslConnectionSocketFactory).build();
639   requestFactory.setHttpClient(httpClient);
640   restTemplate = new RestTemplate(requestFactory);
641   result = restTemplate.postForObject(url, email , Map.class, " ");
642   LOGGER.debug("Inside Email Sending Class...Result..."+result.toString());
643   if (result != null && result.containsKey("success")) {
```

src/main/java/com/cts/dcrowd/rest/app/utils/ImageUtil.java, line 45 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)



Low

Package: com.cts.dcrowd.rest.app.utils

src/main/java/com/cts/dcrowd/rest/app/utils/ImageUtil.java, line 45 (Poor Style: Value Never Read)

Low

Sink Details

Sink: VariableAccess: gfsFile **Enclosing Method:** saveImage()

File: src/main/java/com/cts/dcrowd/rest/app/utils/ImageUtil.java:45

Taint Flags:

```
42  removeImage(db, imageFileName, repoName);
43  gfsFile = createNewFile(db, file, repoName);
44  }*/
45  gfsFile = createNewFile(db, file, repoName, CampaginId, DefectId);
46  imageFileId = gfsFile.getId().toString();
47  } catch (Exception e) {
48  throw new DcrowdException("Image save failed");
```

src/main/java/com/cts/dcrowd/rest/app/utils/ImageUtil.java, line 123 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: gfsPhoto **Enclosing Method:** removeImage()

File: src/main/java/com/cts/dcrowd/rest/app/utils/ImageUtil.java:123

Taint Flags:

src/main/java/com/cts/dcrowd/rest/app/utils/ImageUtil.java, line 109 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: gfsPhoto

Enclosing Method: getImageByFileName()

File: src/main/java/com/cts/dcrowd/rest/app/utils/ImageUtil.java:109



Low

Package: com.cts.dcrowd.rest.app.utils

src/main/java/com/cts/dcrowd/rest/app/utils/ImageUtil.java, line 109 (Poor Style: Value Never Read)

Low

Taint Flags:

```
106 * @return the image by file name
107 */
108 public static GridFSDBFile getImageByFileName(DB db, String fileName, String repoName) {
109 GridFS gfsPhoto = new GridFS(db, repoName);
110 return gfsPhoto.findOne(fileName);
111 }
112
```

src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 625 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)

Sink Details

Sink: VariableAccess: sslContextBuilder **Enclosing Method:** connectExternalUser()

File: src/main/java/com/cts/dcrowd/rest/app/utils/Util.java:625

Taint Flags:

```
public static boolean connectExternalUser(String url, String email) {
    boolean output = false;
    boolean output = false;
    HttpComponentsClientHttpRequestFactory requestFactory = new
    HttpComponentsClientHttpRequestFactory();
    SSLContextBuilder sslContextBuilder = new SSLContextBuilder();
    CloseableHttpClient httpClient = null;
    RestTemplate restTemplate;
    Map<String, Object> result;
```

Package: com.cts.dcrowd.rest.defect.app.controller

src/main/java/com/cts/dcrowd/rest/defect/app/controller/ DefectEntryController.java, line 642 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)

Sink Details

Sink: VariableAccess: mapper

Enclosing Method: exportDefectsToJira()

File: src/main/java/com/cts/dcrowd/rest/defect/app/controller/DefectEntryController.java:642



Low

Package: com.cts.dcrowd.rest.defect.app.controller

src/main/java/com/cts/dcrowd/rest/defect/app/controller/ DefectEntryController.java, line 642 (Poor Style: Value Never Read)

Low

```
639 LOGGER.debug("Received request to saveDefectEntry");
640 try
641 {
642 ObjectMapper mapper = new ObjectMapper();
643 String jsonData = mapper.writeValueAsString(jiradetails);
644 JsonNode rootNode = mapper.readTree(jsonData);
645 jiraService.getJiraAuthentication(rootNode);
```

Package: com.cts.dcrowd.rest.defect.app.jira.services

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 551 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: jArray **Enclosing Method:** getPostData()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:551

Taint Flags:

```
548 String dCrowdLabel = entry1.getValue().optString("label");
549 try {
550 String custObjVal = objectMapper.writeValueAsString(entry.getValue());
551 JSONArray jArray = new JSONArray(custObjVal);
552 for (int index = 0; index < jArray.length(); index++) {
553 String label = jArray.getJSONObject(index).optString("label");
554 if (dCrowdLabel.equals(label)) {</pre>
```

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 183 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)

Sink Details

Sink: VariableAccess: issueRespObj

Enclosing Method: addCommentsAndAttachments()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:183

```
180 private void addCommentsAndAttachments(JsonNode rootNode, HttpHost targetHost,
HttpClientContext context,
181 HttpClient httpClient, String issueResponse)
```



Low

Package: com.cts.dcrowd.rest.defect.app.jira.services

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 183 (Poor Style: Value Never Read)

Low

```
182 throws JSONException, IOException, ClientProtocolException, HttpResponseException,
DcrowdException {
183   JSONObject issueRespObj = new JSONObject(issueResponse);
184   JSONArray createdIssues = issueRespObj.optJSONArray("issues");
185   for (int index = 0; index < createdIssues.length(); index++) {
186   JSONObject jiraIssue = createdIssues.optJSONObject(index);</pre>
```

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 194 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: jsonNode

Enclosing Method: addCommentsAndAttachments()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:194

Taint Flags:

```
191   JSONObject summaryData = new JSONObject(response);
192   String summary = summaryData.optJSONObject("fields").optString("summary");
193   JsonNode defectNode = rootNode.path("defectList");
194   for (JsonNode jsonNode : defectNode) {
195    String defectId = jsonNode.path("id").asText();
196   DefectEntry defectEntry = dcrowdDefectService.fetchByDefectId(defectId);
197   if (defectEntry != null && summary.contains(defectEntry.getDefectName())) {
```

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 265 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)

Sink Details

Sink: VariableAccess: commentArray Enclosing Method: doAddCommentsPost()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:265

```
262 String issueURL, Comment comment) {
263   JSONObject jobj = new JSONObject();
264   JSONObject updateObj = new JSONObject();
265   JSONArray commentArray = new JSONArray();
266   JSONObject addObj = new JSONObject();
267   try {
```



Low

Package: com.cts.dcrowd.rest.defect.app.jira.services

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 265 (Poor Style: Value Never Read)

Low

```
268 addObj.put("add", new JSONObject().put("body", comment.getCommentDescription()));
```

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 346 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: arrayOptions

Enclosing Method: addCustomFieldOptions()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:346

Taint Flags:

```
343  String custId = String.valueOf(responseJson.opt("id"));
344
345  String options = String.valueOf(customFields.opt("options"));
346  JSONArray arrayOptions = new JSONArray(options);
347  JSONArray array = new JSONArray();
348  for (int index = 0; index < arrayOptions.length(); index++) {
349  JSONObject optionsJson = new JSONObject();</pre>
```

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 587 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: jsonNode **Enclosing Method:** getDefect()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:587

```
584
585  JsonNode defectNode = rootNode.path("defectList");
586  DefectEntry defectEntry = null;
587  for (JsonNode jsonNode: defectNode) {
588  String defectId = jsonNode.path("id").asText();
589  defectEntry = dcrowdDefectService.fetchByDefectId(defectId);
590  if (defectEntry != null && defectEntry.getDefectName().equals(defectName)) {
```



Low

Package: com.cts.dcrowd.rest.defect.app.jira.services

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 342 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: responseJson

Enclosing Method: addCustomFieldOptions()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:342

Taint Flags:

```
339  HttpClient httpClient, JSONObject customFields, HttpResponse custResponse)
340  throws HttpResponseException, IOException, JSONException, ClientProtocolException,
DcrowdException {
341  String resp = new BasicResponseHandler().handleResponse(custResponse);
342  JSONObject responseJson = new JSONObject(resp);
343  String custId = String.valueOf(responseJson.opt("id"));
344
345  String options = String.valueOf(customFields.opt("options"));
```

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 122 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: avail

Enclosing Method: getJiraAuthentication()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:122

Taint Flags:

```
119 List<JSONObject> custFields = new ArrayList<>();
120
121 List<String> availFieldNames = new ArrayList<>();
122 for (JSONObject avail : availFields) {
123 availFieldNames.add(String.valueOf(avail.opt("name")));
124 }
125 for (JSONObject frmKeys : formFields) {
```

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 139 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)



Low

Package: com.cts.dcrowd.rest.defect.app.jira.services

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 139 (Poor Style: Value Never Read)

Low

Sink Details

Sink: VariableAccess: avail

Enclosing Method: getJiraAuthentication()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:139

Taint Flags:

```
136 List<String> custoFields = new ArrayList<>();
137
138 List<JSONObject> createdFields = new ArrayList<>();
139 for (JSONObject avail : allCustomFields) {
140 custoFields.add(String.valueOf(avail.opt("name")));
141 }
142 for (JSONObject frmKeys : formFields) {
```

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 264 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: updateObj

Enclosing Method: doAddCommentsPost()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:264

Taint Flags:

```
261  private void doAddCommentsPost(HttpHost targetHost, HttpClientContext context, HttpClient
httpClient,
262  String issueURL, Comment comment) {
263   JSONObject jobj = new JSONObject();
264   JSONObject updateObj = new JSONObject();
265   JSONArray commentArray = new JSONArray();
266   JSONObject addObj = new JSONObject();
267  try {
```

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 347 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: array

Enclosing Method: addCustomFieldOptions()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:347



Low

Package: com.cts.dcrowd.rest.defect.app.jira.services

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 347 (Poor Style: Value Never Read)

Low

Taint Flags:

```
344
345 String options = String.valueOf(customFields.opt("options"));
346   JSONArray arrayOptions = new JSONArray(options);
347   JSONArray array = new JSONArray();
348   for (int index = 0; index < arrayOptions.length(); index++) {
349   JSONObject optionsJson = new JSONObject();
350   optionsJson.put("name", arrayOptions.get(index));</pre>
```

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 263 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: jobj

Enclosing Method: doAddCommentsPost()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:263

Taint Flags:

```
260 */
261 private void doAddCommentsPost(HttpHost targetHost, HttpClientContext context, HttpClient
httpClient,
262 String issueURL, Comment comment) {
263   JSONObject jobj = new JSONObject();
264   JSONObject updateObj = new JSONObject();
265   JSONArray commentArray = new JSONArray();
266   JSONObject addObj = new JSONObject();
```

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 517 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)

Sink Details

Sink: VariableAccess: array Enclosing Method: getPostData()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:517

```
514 public JSONObject getPostData(JsonNode rootNode, Map<String, JSONObject> map)
515 throws DcrowdException, JSONException {
```



Low

Package: com.cts.dcrowd.rest.defect.app.jira.services

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 517 (Poor Style: Value Never Read)

Low

```
516  JSONObject issues = new JSONObject();
517  JSONArray array = new JSONArray();
518
519  JsonNode defectNode = rootNode.path("defectList");
520  for (JsonNode jsonNode : defectNode) {
```

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 387 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: issueObj

Enclosing Method: doCreateBulkIssuePost()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:387

Taint Flags:

```
384 "http://" + rootNode.path("domainName").asText() + ":8080/rest/api/2/issue/bulk");
385
386   JSONObject issueObj = new JSONObject();
387   issueObj = getPostData(rootNode, map);
388
389   HttpEntity entity = new StringEntity(issueObj.toString(), ContentType.APPLICATION_JSON);
390   httpPost.setEntity(entity);
```

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 359 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: custOptResponse **Enclosing Method:** addCustomFieldOptions()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:359

```
356
357  HttpEntity custFieldoption = new StringEntity(array.toString(),
ContentType.APPLICATION_JSON);
358  custFieldOptionsPost.setEntity(custFieldoption);
359  HttpResponse custOptResponse = httpClient.execute(targetHost, custFieldOptionsPost,
context);
360  if (custOptResponse.getStatusLine().getStatusCode() != 204) {
```



Low

Package: com.cts.dcrowd.rest.defect.app.jira.services

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 359 (Poor Style: Value Never Read)

Low

```
361 throw new DcrowdException("Error in creating custom fields");
362 }
```

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 468 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: jArray

Enclosing Method: getAvailableCustomFields()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:468

Taint Flags:

```
465 String response = new BasicResponseHandler().handleResponse(httpResponseGet);
466 List<JSONObject> availableCustomFields = new ArrayList<>();
467 try {
468 JSONArray jArray = new JSONArray(response);
469 for (int index = 0; index < jArray.length(); index++) {
470 if ((boolean) jArray.getJSONObject(index).get("custom")) {
471 availableCustomFields.add(jArray.getJSONObject(index));
```

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 520 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: jsonNode **Enclosing Method:** getPostData()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:520

```
517  JSONArray array = new JSONArray();
518
519  JsonNode defectNode = rootNode.path("defectList");
520  for (JsonNode jsonNode : defectNode) {
521  String defectId = jsonNode.path("id").asText();
522  DefectEntry defectEntry = dcrowdDefectService.fetchByDefectId(defectId);
523
```



Low

Package: com.cts.dcrowd.rest.defect.app.jira.services

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line

303 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: customFieldData Enclosing Method: createCustomFields()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:303

Taint Flags:

```
300 String searcherKey = getSearcherKey(component);
301 String typeKey = getTypeKey(component);
302
303    JSONObject customFieldData = new JSONObject();
304    customFieldData.put("searcherKey", searcherKey);
305    customFieldData.put("name", String.valueOf(customFields.opt("label")));
306    customFieldData.put("description", String.valueOf(customFields.opt("description")));
```

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 630 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: defectConfigFields **Enclosing Method:** getFormData()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:630

Taint Flags:

```
627 DefectLayoutConfig defectLayConfig = defectLayoutConfigService
628    .getDefectLayoutByCampaignId(rootNode.path("defectCampaignId").asText());
629 String formData = String.valueOf(defectLayConfig.getConfigParamMap().get("param1"));
630    JSONArray defectConfigFields = new JSONArray(formData);
631    String defLabel = null;
632    List<JSONObject> formFields = new ArrayList<>();
633    for (int i = 0; i < defectConfigFields.length(); i++) {</pre>
```

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 191 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)



Low

Package: com.cts.dcrowd.rest.defect.app.jira.services

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 191 (Poor Style: Value Never Read)

Low

Sink Details

Sink: VariableAccess: summaryData

Enclosing Method: addCommentsAndAttachments()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:191

Taint Flags:

```
188  HttpGet httpGet = new HttpGet(issueURL);
189  HttpResponse httpResponseGet = httpClient.execute(targetHost, httpGet, context);
190  String response = new BasicResponseHandler().handleResponse(httpResponseGet);
191  JSONObject summaryData = new JSONObject(response);
192  String summary = summaryData.optJSONObject("fields").optString("summary");
193  JsonNode defectNode = rootNode.path("defectList");
194  for (JsonNode jsonNode : defectNode) {
```

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 184 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: createdIssues

Enclosing Method: addCommentsAndAttachments()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:184

Taint Flags:

```
181 HttpClient httpClient, String issueResponse)
182 throws JSONException, IOException, ClientProtocolException, HttpResponseException,
DcrowdException {
183   JSONObject issueRespObj = new JSONObject(issueResponse);
184   JSONArray createdIssues = issueRespObj.optJSONArray("issues");
185   for (int index = 0; index < createdIssues.length(); index++) {
186   JSONObject jiraIssue = createdIssues.optJSONObject(index);
187   String issueURL = jiraIssue.optString("self");</pre>
```

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 186 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: jiralssue

Enclosing Method: addCommentsAndAttachments()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:186



Low

Package: com.cts.dcrowd.rest.defect.app.jira.services

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 186 (Poor Style: Value Never Read)

Low

Taint Flags:

```
183   JSONObject issueRespObj = new JSONObject(issueResponse);
184   JSONArray createdIssues = issueRespObj.optJSONArray("issues");
185   for (int index = 0; index < createdIssues.length(); index++) {
186    JSONObject jiraIssue = createdIssues.optJSONObject(index);
187   String issueURL = jiraIssue.optString("self");
188   HttpGet httpGet = new HttpGet(issueURL);
189   HttpResponse httpResponseGet = httpClient.execute(targetHost, httpGet, context);</pre>
```

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 537 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: objectMapper **Enclosing Method:** getPostData()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:537

Taint Flags:

```
fields.put("fields", project);
fissues.put("issueUpdates", array.put(fields));

536

537 ObjectMapper objectMapper = new ObjectMapper();

538 Map<String, Object> defectMap = objectMapper.convertValue(defectEntry, Map.class);

539

540 for (Map.Entry<String, JSONObject> entry1 : map.entrySet()) {
```

Package: com.cts.dcrowd.rest.defect.app.services.helper

src/main/java/com/cts/dcrowd/rest/defect/app/services/helper/
DefectsQueryProcessor.java, line 470 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: output

Enclosing Method: aggregateDefectsCountForModerator2()

File: src/main/java/com/cts/dcrowd/rest/defect/app/services/helper/DefectsQueryProcessor.java:470

Taint Flags:

467 project("value", "key"),



Low

Package: com.cts.dcrowd.rest.defect.app.services.helper

src/main/java/com/cts/dcrowd/rest/defect/app/services/helper/ DefectsQueryProcessor.java, line 470 (Poor Style: Value Never Read)

Low

```
468  sort(Sort.Direction.DESC, "key"));
469
470  AggregationResults<PieChart> output = mongoTemplate.aggregate(aggregation,
DefectEntry.class,
471  PieChart.class);
472
473  return output.getMappedResults();
```

src/main/java/com/cts/dcrowd/rest/defect/app/services/helper/ DefectsQueryProcessor.java, line 603 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: groupResults

Enclosing Method: getDefectsCountByUserId()

File: src/main/java/com/cts/dcrowd/rest/defect/app/services/helper/DefectsQueryProcessor.java:603

Taint Flags:

```
600 Aggregation.limit(limit)
601 );
602
603 AggregationResults<TopUserDefect> groupResults=
mongoTemplate.aggregate(aggregation, DefectEntry.class, TopUserDefect.class);
604 List<TopUserDefect> topUserList = groupResults.getMappedResults();
605
606 /*for(TopUserDefect topUser: topUserList) {
```

src/main/java/com/cts/dcrowd/rest/defect/app/services/helper/ DefectsQueryProcessor.java, line 441 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality **Scan Engine:** SCA (Structural)

Sink Details

Sink: VariableAccess: output

Enclosing Method: aggregateDefectsCount()

File: src/main/java/com/cts/dcrowd/rest/defect/app/services/helper/DefectsQueryProcessor.java:441

```
438 project("value", "key"),
439 sort(Sort.Direction.DESC, "key"));
440

441 AggregationResults<PieChart> output = mongoTemplate.aggregate(aggregation,
```



Low

Package: com.cts.dcrowd.rest.defect.app.services.helper

src/main/java/com/cts/dcrowd/rest/defect/app/services/helper/
DefectsQueryProcessor.java, line 441 (Poor Style: Value Never Read)

Low

```
DefectEntry.class,
442 PieChart.class);
443
444 return output.getMappedResults();
```

Package: com.cts.dcrowd.rest.defect.app.services.impl

src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/
DefaultDefectServiceImpl.java, line 433 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: externalUser

Enclosing Method: addWatcherToDefect()

File: src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/DefaultDefectServiceImpl.java:433

Taint Flags:

```
430 watcher.setWatcherUserImageFileUrl(user.getImageData().getImageFileUrl());
431 }
432 } else {
433 externalUser = externalUserRepository.findByUsername(watcher.getWatcherUserId());
434 watcher.setWatcherFullName(Util.getLoggedUserFullName());
435 watcher.setWatcherInitial(getUserInitial());
436 }
```

src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/ DcrowdDefectEntryServiceImpl.java, line 616 (Poor Style: Value Never Read)

Low

Issue Details

Kingdom: Code Quality Scan Engine: SCA (Structural)

Sink Details

Sink: VariableAccess: defectLayout

Enclosing Method: exportCuratedDefectList()

File: src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/DcrowdDefectEntryServiceImpl.java:616

```
613  DefectLayoutConfig
defectLayoutConfig=defectLayoutConfigRepository.findByCampaignId(campaignId);
614  Map<String, Object> configParamMap = defectLayoutConfig.getConfigParamMap();
615  String data=String.valueOf(configParamMap.get("param1"));
616  JSONArray defectLayout=new JSONArray(data);
617
```



Poor Style: Value Never Read	Low
Package: com.cts.dcrowd.rest.defect.app.services.impl	
src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/ DcrowdDefectEntryServiceImpl.iava, line 616 (Poor Style: Value Never Read)	Low

618 List<String> defectFormFields=new ArrayList<>();
619 List<String> defaultFields = Arrays.asList("CAMPAIGNNAME", "DEFECTNAME",
"DEFECTSTATUS","LOGGEDDATE","LASTUPDATEDDATE","LASTUPDATEDBY","LOGGEDBY","LOGGEDBY","LOGGEDBY



Privacy Violation: Heap Inspection (1 issue)

Abstract

Storing sensitive data in a String object makes it impossible to reliably purge the data from memory.

Explanation

Sensitive data (such as passwords, social security numbers, credit card numbers etc) stored in memory can be leaked if memory is not cleared after use. Often, Strings are used store sensitive data, however, since String objects are immutable, removing the value of a String from memory can only be done by the JVM garbage collector. The garbage collector is not required to run unless the JVM is low on memory, so there is no guarantee as to when garbage collection will take place. In the event of an application crash, a memory dump of the application might reveal sensitive data. **Example 1:** The following code converts a password from a character array to a String.

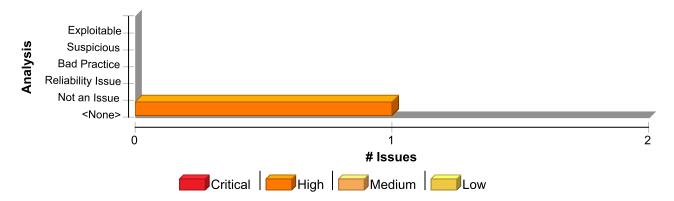
```
private JPasswordField pf;
...
final char[] password = pf.getPassword();
...
String passwordAsString = new String(password);
This category was derived from the Cigital Java Rulepack. http://www.cigital.com/
```

Recommendation

Always be sure to clear sensitive data that is no longer needed. Instead of storing sensitive data in immutable objects such as Strings, use byte arrays or character arrays that you can clear programmatically. **Example 2:** The following code clears memory after a password is used. private JPasswordField pf;

```
final char[] password = pf.getPassword();
// use the password
...
// erase when finished
Arrays.fill(password, ' ');
```

Issue Summary





Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
Privacy Violation: Heap Inspection	1	0	0	1
Total	1	0	0	1

Privacy Violation: Heap Inspection	High
Package: com.cts.dcrowd.rest.app.utils	
src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 530 (Privacy Violation: Heap Inspection)	High

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Data Flow)

Source Details

Source: Read this.password

From: com.cts.dcrowd.rest.app.domain.ExternalUserVO.getPassword

File: src/main/java/com/cts/dcrowd/rest/app/domain/ExternalUserVO.java:200

```
197 */
198 @JsonIgnore
199 public String getPassword() {
200 return password;
201 }
202
203 /**
```

Sink Details

Sink: java.lang.String.String()

Enclosing Method: generateBlowFishDecryptValue()

File: src/main/java/com/cts/dcrowd/rest/app/utils/Util.java:530

Taint Flags: PRIVATE, WEAKCRYPTO

```
527 {
528 String[] basicAuthString = null;
529 try {
530 basicAuthString = new String(Base64.getDecoder().decode(encryptedValue),
StandardCharsets.UTF_8).split("fastestCustomers");
531 } catch (Exception e) {
532 e.printStackTrace();
533 }
```



Redundant Null Check (5 issues)

Abstract

The program can potentially dereference a null pointer, thereby causing a null pointer exception.

Explanation

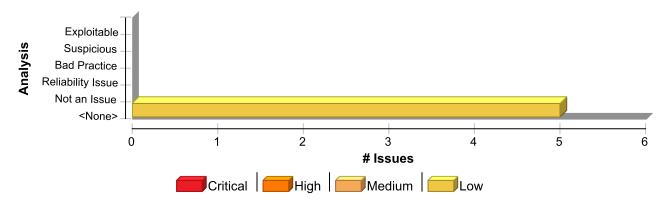
Null pointer exceptions usually occur when one or more of the programmer's assumptions is violated. A check-after-dereference error occurs when a program dereferences an object that can be null before checking if the object is null. Most null pointer issues result in general software reliability problems, but if attackers can intentionally trigger a null pointer dereference, they can use the resulting exception to bypass security logic or to cause the application to reveal debugging information that will be valuable in planning subsequent attacks. **Example:** In the following code, the programmer assumes that the variable foo is not null and confirms this assumption by dereferencing the object. However, the programmer later contradicts the assumption by checking foo against null. If foo can be null when it is checked in the if statement then it can also be null when it is dereferenced and might cause a null pointer exception. Either the dereference is unsafe or the subsequent check is unnecessary.

```
foo.setBar(val);
...
if (foo != null) {
    ...
}
```

Recommendation

Implement careful checks before dereferencing objects that might be null. When possible, abstract null checks into wrappers around code that manipulates resources to ensure that they are applied in all cases and to minimize the places where mistakes can occur.

Issue Summary



Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Redundant Null Check	5	0	0	5
Total	5	0	0	5



201

Redundant Null Check Low

Package: com.cts.dcrowd.rest.app.service

src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java, line 609 (Redundant Null Check)

Low

Issue Details

Kingdom: Code Quality

Scan Engine: SCA (Control Flow)

Sink Details

Sink: Dereferenced: externalModerators **Enclosing Method:** setExternalModLvl()

File: src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java:609

Taint Flags:

```
606 List<ExternalUsersModel> externalModeratorslvl1 = campaign.getExternalModeratorLvl1();
607 List<ExternalUsersModel> externalModeratorslvl2 = campaign.getExternalModeratorLvl2();
608 if(externalModeratorslvl1!=null) {
609 externalModerators.addAll(externalModeratorslvl1);
610 }
611 if(externalModeratorslvl2!=null) {
612 externalModerators.addAll(externalModeratorslvl2);
```

src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java, line 990 (Redundant Null Check)

Low

Issue Details

Kingdom: Code Quality

Scan Engine: SCA (Control Flow)

Sink Details

Sink: Dereferenced: campaign Enclosing Method: confirmTeam()

File: src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java:990

Taint Flags:

```
987 boolean userFlag = false;
988 List<String> userListObj = (List<String>) userList;
989 // UserDetails userDetails;
990 campaign.getConfirmedTeamMembers().clear();
991 try {
992 for (String userId : userListObj) {
993 try {
```

src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java, line 990 (Redundant Null Check)

Low

Issue Details

Kingdom: Code Quality

Scan Engine: SCA (Control Flow)



Redundant Null Check Low

Package: com.cts.dcrowd.rest.app.service

src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java, line 990 (Redundant Null Check)

Low

Sink Details

Sink: Dereferenced: campaign **Enclosing Method:** confirmTeam()

File: src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java:990

Taint Flags:

```
987 boolean userFlag = false;
988 List<String> userListObj = (List<String>) userList;
989 // UserDetails userDetails;
990 campaign.getConfirmedTeamMembers().clear();
991 try {
992 for (String userId : userListObj) {
993 try {
```

src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java, line 1008 (Redundant Null Check)

Low

Issue Details

Kingdom: Code Quality

Scan Engine: SCA (Control Flow)

Sink Details

Sink: Dereferenced: campaign **Enclosing Method:** confirmTeam()

File: src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java:1008

Taint Flags:

```
1005  user.setModifiedBy(Util.buildFullName(securityService.getLoggedUser()));
1006  userService.createUpdateUser(user);
1007  activityHandler.setActivityToUser(user, activityHandler.addActivityWithOneParam());
1008  String.valueOf(campaign.getName()), EventType.NOMINATION_ACCEPTED));
1009
1010  // activityHandler.setActivityToUser(user,
1011  // activityHandler.addActivityWithMessageOnly(EventType.NOMINATION_ACCEPTED));
```

Package: com.cts.dcrowd.rest.app.utils

src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 642 (Redundant Null Check)

Low

Issue Details

Kingdom: Code Quality

Scan Engine: SCA (Control Flow)

Sink Details

Sink: Dereferenced: result

Enclosing Method: connectExternalUser()



Redundant Null Check	Low
Package: com.cts.dcrowd.rest.app.utils	
src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 642 (Redundant Null Check)	Low

File: src/main/java/com/cts/dcrowd/rest/app/utils/Util.java:642 **Taint Flags:**

```
639  requestFactory.setHttpClient(httpClient);
640  restTemplate = new RestTemplate(requestFactory);
641  result = restTemplate.postForObject(url, email, Map.class, "");
642  LOGGER.debug("Inside Email Sending Class...Result..."+result.toString());
643  if (result != null && result.containsKey("success")) {
644  output = (boolean) result.get("success");
645  }
```



Spring Boot Misconfiguration: Actuator Endpoint Security Disabled (1 issue)

Abstract

The Spring Boot application uses Actuator endpoints requiring no authentication.

Explanation

Spring Boot applications can be configured to deploy Actuators, which are REST endpoints that allow users to monitor different aspects of the application. There are different built-in Actuators which may expose sensitive data and are labeled as "sensitive". By default all sensitive HTTP endpoints are secured such that only users that have an ACTUATOR role may access them. This application is either disabling the authentication requirement for sensitive endpoints: **Example 1**:

```
management.security.enabled=false
Or marking sensitive endpoints as non-sensitive: Example 2:
endpoints.health.sensitive=false
Or a custom Actuator is set as non-sensitive:
@Component.
public class CustomEndpoint implements Endpoint<List<String>> {
    public String getId() {
        return "customEndpoint";
    public boolean isEnabled() {
        return true;
    public boolean isSensitive() {
        return false;
    public List%lt;String> invoke() {
        // Custom logic to build the output
         . . .
}
```

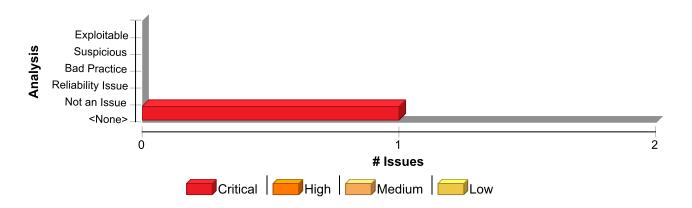
Recommendation

All endpoints exposing sensitive information or operations should be protected with the correct levels of authentication and authorization. It is always a good practice to require authentication even for internal servers as a security in-depth mechanism. Take into account that even in the case that the application is deployed internally, behind a firewall, an attacker may still be able to reach it using a Server-Side Request Forgery vulnerability found in a different application.

Issue Summary



205



Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
Spring Boot Misconfiguration: Actuator Endpoint Security Disabled	1	0	0	1
Total	1	0	0	1

Spring Boot Misconfiguration: Actuator Endpoint Security Disabled	Critical
Package: src.main.resources	
src/main/resources/application.properties, line 4 (Spring Boot Misconfiguration: Actuator Endpoint Security Disabled)	Critical

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Configuration)

Sink Details

Sink: endpoints.refresh.sensitive

File: src/main/resources/application.properties:4

Taint Flags:

1 # Default profile
2 #spring.profiles.active=local
3 spring.profiles.include=message
4 endpoints.refresh.sensitive=false
5
6 undefined
7 undefined



Spring Boot Misconfiguration: DevTools Enabled (1 issue)

Abstract

The Spring Boot application is configured in developer mode.

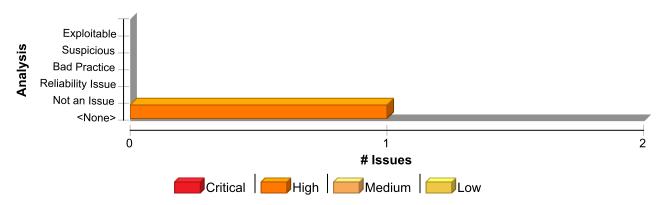
Explanation

The Spring Boot application has DevTools enabled. DevTools include an additional set of tools which can make the application development experience a little more pleasant, but DevTools are not recommended to use on applications in a production environment. As stated in the official Spring Boot documentation: "Enabling spring-boot-devtools on a remote application is a security risk. You should never enable support on a production deployment."

Recommendation

Remove spring-boot-devtoos dependency on production deployments.

Issue Summary



Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
Spring Boot Misconfiguration: DevTools Enabled	1	0	0	1
Total	1	0	0	1

Spring Boot Misconfiguration: DevTools Enabled	High
Package: <none></none>	
pom.xml, line 38 (Spring Boot Misconfiguration: DevTools Enabled)	High

Issue Details

Kingdom: Security Features **Scan Engine:** SCA (Configuration)

Sink Details

File: pom.xml:38 Taint Flags:

35 </dependency>

36 <dependency>



Spri	ng Boot Misconfiguration: DevTools Enabled	High
Pac	kage: <none></none>	
pom	.xml, line 38 (Spring Boot Misconfiguration: DevTools Enabled)	High
37	<pre><groupid>org.springframework.boot</groupid></pre>	
38	<artifactid>spring-boot-devtools</artifactid>	
39		
40	<dependency></dependency>	
41	<pre><groupid>org.mongodb</groupid></pre>	



System Information Leak (75 issues)

Abstract

Revealing system data or debugging information helps an adversary learn about the system and form a plan of attack.

Explanation

An information leak occurs when system data or debugging information leaves the program through an output stream or logging function. **Example 1:** The following code prints an exception to the standard error stream:

```
try {
    ...
} catch (Exception e) {
    e.printStackTrace();
}
```

Depending upon the system configuration, this information can be dumped to a console, written to a log file, or exposed to a remote user. For example, with scripting mechanisms it is trivial to redirect output information from "Standard error" or "Standard output" into a file or another program. Alternatively the system that the program runs on could have a remote logging mechanism such as a "syslog" server that will send the logs to a remote device. During development you will have no way of knowing where this information may end up being displayed. In some cases the error message tells the attacker precisely what sort of an attack the system is vulnerable to. For example, a database error message can reveal that the application is vulnerable to a SQL injection attack. Other error messages can reveal more oblique clues about the system. In the example above, the leaked information could imply information about the type of operating system, the applications installed on the system, and the amount of care that the administrators have put into configuring the program. Here is another scenario, specific to the mobile world. Most mobile devices now implement a Near-Field Communication (NFC) protocol for quickly sharing information between devices using radio communication. It works by bringing devices to close proximity or simply having them touch each other. Even though the communication range of NFC is limited to just a few centimeters, eavesdropping, data modification and various other types of attacks are possible, since NFC alone does not ensure secure communication. **Example 2:** The Android platform provides support for NFC. The following code creates a message that gets pushed to the other device within the range.

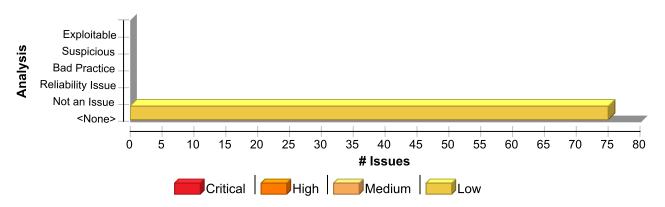
NFC Data Exchange Format (NDEF) message contains typed data, a URI, or a custom application payload. If the message contains information about the application, such as its name, MIME type, or device software version, this information could be leaked to an eavesdropper. In the example above, Fortify Static Code Analyzer reports a System Information Leak vulnerability on the return statement.



Recommendation

Write error messages with security in mind. In production environments, turn off detailed error information in favor of brief messages. Restrict the generation and storage of detailed output that can help administrators and programmers diagnose problems. Be careful, debugging traces can sometimes appear in non-obvious places (embedded in comments in the HTML for an error page, for example). Even brief error messages that do not reveal stack traces or database dumps can potentially aid an attacker. For example, an "Access Denied" message can reveal that a file or user exists on the system. If you are concerned about leaking system data via NFC on an Android device, you could do one of the following three things. Either do not include system data in the messages pushed to other devices in range, or encrypt the payload of the message, or establish secure communication channel at a higher layer.

Issue Summary



Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
System Information Leak	75	0	0	75
Total	75	0	0	75

System Information Leak	Low
Package: .com.cts.dcrowd.rest.app.service	
src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java, line 1657 (System Information Leak)	Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: accept()

File: src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java:1657

```
1654 userRepository.save(user);
1655 } catch (DcrowdException e1) {
1656  // TODO Auto-generated catch block
1657 el.printStackTrace();
1658 }
```



System Information Leak Package: .com.cts.dcrowd.rest.app.service src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java, line 1657 (System Information Leak) Low Low

```
1659
1660 });
```

src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java, line 295 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: accept()

File: src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java:295

Taint Flags:

```
292 userRepository.save(user);
293 } catch (DcrowdException e1) {
294  // TODO Auto-generated catch block
295 el.printStackTrace();
296 }
297 });
298 campaignId = null;
```

Package: .com.cts.dcrowd.rest.app.service.helper

src/main/java/com/cts/dcrowd/rest/app/service/helper/CampaignServiceHelper.java, line 477 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: accept()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/CampaignServiceHelper.java:477

```
474  }
475  }
476  } catch (Exception e) {
477  e.printStackTrace();
478  }
479  }
480  }
```



Low

Package: .com.cts.dcrowd.rest.app.service.helper

src/main/java/com/cts/dcrowd/rest/app/service/helper/ CampaignServiceHelper.java, line 381 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: accept()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/CampaignServiceHelper.java:381

Taint Flags:

```
378  userListAfterStateFilter.add(filterByState);
379  }
380  }catch(Exception e) {
381  e.printStackTrace();
382  }
383  }
384 }
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/CampaignServiceHelper.java, line 230 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: accept()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/CampaignServiceHelper.java:230

Taint Flags:

```
227 }
228 } catch (DcrowdException e) {
229  // TODO Auto-generated catch block
230 e.printStackTrace();
231 }
232 campaignResponseModel.setSystemDate(campaign.getCreatedDate());
233
```

src/main/java/com/cts/dcrowd/rest/app/service/helper/ CampaignServiceHelper.java, line 187 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)



Low

Package: .com.cts.dcrowd.rest.app.service.helper

src/main/java/com/cts/dcrowd/rest/app/service/helper/ CampaignServiceHelper.java, line 187 (System Information Leak)

Low

Sink Details

Sink: printStackTrace()
Enclosing Method: accept()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/CampaignServiceHelper.java:187

Taint Flags:

```
184  }
185  } catch (DcrowdException e) {
186  // TODO Auto-generated catch block
187  e.printStackTrace();
188  }
189  campaignResponseModel.setSystemDate(campaign.getCreatedDate());
190
```

Package: .com.cts.dcrowd.rest.defect.app.jira.services

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 246 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: accept()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:246

Taint Flags:

```
243
244  } catch (Exception e) {
245   // TODO Auto-generated catch block
246  e.printStackTrace();
247  }
248
249  });
```

Package: .com.cts.dcrowd.rest.defect.app.services.impl

src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/ DcrowdDefectEntryServiceImpl.java, line 221 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation Scan Engine: SCA (Semantic)

Sink Details



Low

Package: .com.cts.dcrowd.rest.defect.app.services.impl

src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/ DcrowdDefectEntryServiceImpl.java, line 221 (System Information Leak)

Low

Sink: printStackTrace()
Enclosing Method: accept()

File: src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/DcrowdDefectEntryServiceImpl.java:221

Taint Flags:

```
218  }
219  } catch (IOException | DcrowdException e) {
220  // TODO Auto-generated catch block
221  e.printStackTrace();
222  saveException = true;
223  }
224  });
```

src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/ DcrowdDefectEntryServiceImpl.java, line 139 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: accept()

File: src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/DcrowdDefectEntryServiceImpl.java:139

Taint Flags:

```
136  deAttachment.setAttachmentFilePath(filePathUrl+"/
  defect/"+campaignId+"/"+defectId+"/"+deAttachment.getAttachmentFileName());
137  } catch (IOException | DcrowdException e) {
138  // TODO Auto-generated catch block
139  e.printStackTrace();
140  saveException = true;
141  }
142  });
```

Package: com.cts.dcrowd.rest.app.controller

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 918 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: moderatorClosedCampaign()



Low

Package: com.cts.dcrowd.rest.app.controller

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 918 (System Information Leak)

Low

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:918 **Taint Flags:**

```
915  Page<CampaignMetricsModel> campaignWithMetricsList =
  campaignService.getClosedCampaignByModeratorId(offset-1,limit,isExternal);
916  return buildSuccessResponse(campaignWithMetricsList);
917  }catch(DcrowdException de) {
918  de.printStackTrace();
919  LOGGER.error("DcrowdException : ", de.getMessage());
920  return buildFailureResponse( 232, "Failed in CampaignController - Unable to fetch closed campaign list");
921 }
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 968 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: getNominationHistoryOfUser()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:968

Taint Flags:

```
965  return buildSuccessResponse(nominationList);
966  }
967  catch(DcrowdException de) {
968  de.printStackTrace();
969  LOGGER.error("DcrowdException : ", de.getMessage());
970  return buildFailureResponse(203, "Failed in CampaignController - Unable to getNominationHistoryOfUser");
971 }
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 946 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: searchCampaigns()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:946



Low

Package: com.cts.dcrowd.rest.app.controller

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 946 (System Information Leak)

Low

```
943 }
944 return buildSuccessResponse(campaignList);
945 }catch(DcrowdException de) {
946 de.printStackTrace();
947 LOGGER.error("DcrowdException : ", de.getMessage());
948 return buildFailureResponse( 233, "Failed in CampaignController - Unable to search campaigns");
949 }
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 479 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: adminArchivedCampaign()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:479

Taint Flags:

```
476  Pagination campaign = campaignService.getClosedCampaignByCreatorId(offset-1, limit);
477  return buildSuccessResponse(campaign);
478  }catch(DcrowdException de) {
479  de.printStackTrace();
480  LOGGER.error("DcrowdException : ", de.getMessage());
481  return buildFailureResponse(215, "Failed in CampaignController - Unable to fetch archived campaign list");
482 }
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 855 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: getDefectLayoutsByCampaignName()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:855

```
852 return
buildSuccessResponse(defectLayoutConfigService.getDefectLayoutsByCampaignName(campaignName));
853 }catch(DcrowdException de)
```



Low

Package: com.cts.dcrowd.rest.app.controller

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 855 (System Information Leak)

Low

```
854 {
855   de.printStackTrace();
856   LOGGER.error("DcrowdException : ", de.getMessage());
857   return buildFailureResponse(229, "Failed in CampaignController - Unable to get Defect
Layouts By CampaignName");
858 }
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 548 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: sendRating()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:548

Taint Flags:

```
545 campaignService.updateRatingForUser(campaignId);
546 return buildSuccessResponse("Send Rating : Successfully Saved");
547 }catch(DcrowdException | IOException de) {
548 de.printStackTrace();
549 LOGGER.error("DcrowdException : ", de.getMessage());
550 return buildFailureResponse( 218, "Failed in CampaignController - Unable to send rating");
551 }
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 320 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: viewCampaign()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:320

```
317 }
318 catch(DcrowdException de)
319 {
320 de.printStackTrace();
321 LOGGER.error("DcrowdException : ", de.getMessage());
322 return buildFailureResponse(208, "Failed in CampaignController - error during
```



Low

Package: com.cts.dcrowd.rest.app.controller

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 320 (System Information Leak)

Low

```
viewCampaign");
323 }
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 787 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: removeCampaign()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:787

Taint Flags:

```
784 status = campaignService.removeCampaign(campaignId);
785 return buildSuccessResponse("Campaign removed from the system successfully");
786 } catch (DcrowdException de) {
787 de.printStackTrace();
788 LOGGER.error("DcrowdException : ", de.getMessage());
789 if(status != 200) {
790 LOGGER.error("DcrowdException : Failed in CampaignController - Unable to remove Campaign");
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 875 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: getAllDefectLayouts()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:875

```
872  return buildSuccessResponse(defectLayoutConfigService.getDefectLayouts());
873  }catch(DcrowdException de)
874  {
875  de.printStackTrace();
876  LOGGER.error("DcrowdException : ", de.getMessage());
877  return buildFailureResponse(230, "Failed in CampaignController - Unable to get All Defect Layouts");
878 }
```



Low

Package: com.cts.dcrowd.rest.app.controller

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 897 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: moderatorCurrentCampaign()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:897

Taint Flags:

```
Page<CampaignMetricsModel> campaignWithMetricsList =
campaignService.getCurrentCampaignByModeratorId(offset-1,limit,isExternal);

return buildSuccessResponse(campaignWithMetricsList);

section (DerowdException de) {

return buildSuccessResponse(campaignWithMetricsList);

return buildSuccessResponse(campaignWithMetricsList);

return buildSuccessResponse(campaignWithMetricsList);

return buildSuccessResponse(campaignWithMetricsList);

return buildFailureResponse(campaignWithMetricsList);

return buildFailureResponse(campaignWithMetricsList);

return buildFailureResponse(campaignWithMetricsList);

return buildFailureResponse(campaignWithMetricsList);

return buildFailureResponse(campaignWithMetricsList);

return buildSuccessResponse(campaignWithMetricsList);

return buildFailureResponse(campaignWithMetricsList);

return buildFailureResponse(campaignWithMetricsList);

return buildSuccessResponse(campaignWithMetricsList);

return bu
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 433 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: completeCampaign()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:433

Taint Flags:

```
430 campaignService.completeCampaign(campaignId);
431 return buildSuccessResponse("Successfully completed campaign");
432 } catch (DcrowdException | IOException de) {
433 de.printStackTrace();
434 LOGGER.error("DcrowdException : ", de.getMessage());
435 return buildFailureResponse( 213, "Failed in CampaignController - Unable to complete campaign");
436 }
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 413 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation



Low

Package: com.cts.dcrowd.rest.app.controller

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 413 (System Information Leak)

Low

Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: startCampaign()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:413

Taint Flags:

```
410 campaignService.startCampaign(campaignId);
411 return buildSuccessResponse("Campaign started successfully");
412 } catch(DcrowdException | IOException de) {
413 de.printStackTrace();
414 LOGGER.error("DcrowdException : ", de.getMessage());
415 return buildFailureResponse(212, "Failed in CampaignController - Unable to start campaign");
416 }
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 238 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: saveCampaign()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:238

Taint Flags:

```
235 }
236 catch(DcrowdException | IOException de)
237 {
238 de.printStackTrace();
239 LOGGER.error("DcrowdException : ", de);
240 return buildFailureResponse(206, "Failed in CampaignController - error during campaign creation");
241 }
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 458 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details



Low

Package: com.cts.dcrowd.rest.app.controller

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 458 (System Information Leak)

Low

Sink: printStackTrace()

Enclosing Method: adminCurrentCampaign()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:458

Taint Flags:

```
455  Pagination campaign = campaignService.getCurrentCampaignByCreatorId(offset-1,limit);
456  return buildSuccessResponse(campaign);
457  }catch(DcrowdException de) {
458  de.printStackTrace();
459  LOGGER.error("DcrowdException : ", de.getMessage());
460  return buildFailureResponse( 214, "Failed in CampaignController - Unable to fetch current campaign list");
461 }
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 813 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: defectConfig()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:813

Taint Flags:

```
810 defectLayoutConfigService.configure(campaignId, crowdRequest.getParam());
811 return buildSuccessResponse("Defect Layout saved successfully");
812 } catch (DcrowdException de) {
813 de.printStackTrace();
814 LOGGER.error("DcrowdException : ", de.getMessage());
815 return buildFailureResponse( 227, "Failed in CampaignController - Unable to save Defect Layout");
816 }
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 345 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: nominateCampaign()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:345



Low

Package: com.cts.dcrowd.rest.app.controller

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 345 (System Information Leak)

Low

Taint Flags:

```
342 else
343 return buildFailureResponse(209, "Campaign is not in open for nomination status");
344 } catch (DcrowdException de) {
345  de.printStackTrace();
346  LOGGER.error("DcrowdException:", de.getMessage());
347  return buildFailureResponse(209, "Failed in CampaignController - Unable to nominate in the campaign");
348 }
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 527 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: getFeedback()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:527

Taint Flags:

```
524  return buildSuccessResponse(feedback);
525  }catch(DcrowdException de)
526  {
527  de.printStackTrace();
528  LOGGER.error("DcrowdException : ", de.getMessage());
529  return buildFailureResponse(217, "Failed in CampaignController - Unable to get user rating");
530 }
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 599 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: getCampaignerImageByld()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:599

Taint Flags:

596 return buildSuccessResponse(image);



Low

Package: com.cts.dcrowd.rest.app.controller

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 599 (System Information Leak)

Low

```
597 }
598 catch (DcrowdException de) {
599  de.printStackTrace();
600  LOGGER.error("DcrowdException : ",de.getMessage());
601  return buildFailureResponse(220, "Failed in CampaignController - Unable to
getCampaignerImageById");
602 }
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 188 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: getNominatedCampaignOfUser()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:188

Taint Flags:

```
185  return buildSuccessResponse(campaignList);
186  }
187  catch(DcrowdException de) {
188  de.printStackTrace();
189  LOGGER.error("DcrowdException : ", de.getMessage());
190  return buildFailureResponse(203, "Failed in CampaignController - Unable to getNominatedCampaignOfUser");
191  }
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 574 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: saveCampaignerImage()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:574

```
571 }
572
573 } catch (DcrowdException | IOException de) {
574 de.printStackTrace();
```



Low

Package: com.cts.dcrowd.rest.app.controller

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 574 (System Information Leak)

Low

```
575 LOGGER.error("DcrowdException : ",de.getMessage());
576 return buildFailureResponse(219, "Failed in CampaignController - "+de);
577 }
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 392 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: closeNomination()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:392

Taint Flags:

```
389 campaignService.closeNomination(campaignId);
390 return buildSuccessResponse("Nomination closed");
391 } catch(DcrowdException | IOException de) {
392  de.printStackTrace();
393  LOGGER.error("DcrowdException : ", de.getMessage());
394  return buildFailureResponse( 211, "Failed in CampaignController - Unable to close nomination");
395 }
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 212 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: getCompletedCampaignOfUser()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:212

```
209  return buildSuccessResponse(campaignList);
210  }
211  catch(DcrowdException de) {
212  de.printStackTrace();
213  LOGGER.error("DcrowdException : ", de.getMessage());
214  return buildFailureResponse(204, "Failed in CampaignController - Unable to getCompletedCampaignOfUser");
215  }
```



System Information Leak Package: com.cts.dcrowd.rest.app.controller src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 212 (System Information Leak) Low

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 287 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: updateForNomination()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:287

Taint Flags:

```
284  updateCampaignUsersList =
  campaignService.updateCampaignNominationAndConfirmedUsersList(campaign,emailStatus);
285  } catch (IOException | DcrowdException e) {
286  // TODO Auto-generated catch block
287  e.printStackTrace();
288  }
289  if(updateCampaignUsersList) {
290  return buildSuccessResponse("Success - update Nomination mail sent Success");
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 372 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: confirmTeam()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:372

```
369 campaignService.confirmTeam(campaignId, userList,confirmStatus);
370 return buildSuccessResponse("Team confirmed");
371 } catch(DcrowdException de) {
372 de.printStackTrace();
373 LOGGER.error("DcrowdException: ", de.getMessage());
374 return buildFailureResponse(210, "Failed in CampaignController - Unable to confirm team");
375 }
```



Low

Package: com.cts.dcrowd.rest.app.controller

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 262 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: openForNomination()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:262

Taint Flags:

```
259 }
260 catch(DcrowdException | IOException e)
261 {
262 e.printStackTrace();
263 LOGGER.error( "DcrowdException : ", e);
264 return buildFailureResponse(207, "Failed in CampaignController - errors in openForNomination");
265 }
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 669 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: emailImageUpload()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:669

Taint Flags:

```
666 throw new DcrowdException("Invalid Attachment");
667 }
668 } catch (DcrowdException de) {
669 de.printStackTrace();
670 LOGGER.error("DcrowdException : ",de.getMessage());
671 return buildFailureResponse(223, "Failed in CampaignController - "+de);
672 }
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 834 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)



Low

Package: com.cts.dcrowd.rest.app.controller

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 834 (System Information Leak)

Low

Sink Details

Sink: printStackTrace()

Enclosing Method: getDefectLayout()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:834

Taint Flags:

```
831  return
buildSuccessResponse(defectLayoutConfigService.getDefectLayoutByCampaignId(campaignId));
832  }catch(DcrowdException de)
833  {
834  de.printStackTrace();
835  LOGGER.error("DcrowdException : ", de.getMessage());
836  return buildFailureResponse(228, "Failed in CampaignController - Unable to get Defect Layout");
837 }
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 133 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: getCampaigns()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:133

Taint Flags:

```
130  usersCampaignList.setCurrentCampaignListWithMetrics(homeCampaignPage);
131  return buildSuccessResponse(usersCampaignList);
132  } catch(DcrowdException de) {
133  de.printStackTrace();
134  LOGGER.error("DcrowdException : ", de.getMessage());
135  return buildFailureResponse(201, "Failed in CampaignController - Unable to retrieve all campaigns");
136 }
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 164 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()



Low

Package: com.cts.dcrowd.rest.app.controller

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 164 (System Information Leak)

Low

Enclosing Method: getCurrentCampaignOfUser()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:164 **Taint Flags:**

```
161  return buildSuccessResponse(usersCampaignList);
162  }
163  catch(DcrowdException de) {
164  de.printStackTrace();
165  LOGGER.error("DcrowdException : ", de.getMessage());
166  return buildFailureResponse(202, "Failed in CampaignController - Unable to getCurrentCampaignOfUser");
167  }
```

src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java, line 505 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: saveFeedback()

File: src/main/java/com/cts/dcrowd/rest/app/controller/CampaignController.java:505

Taint Flags:

```
502  return buildSuccessResponse("Feedback : Successfully Saved");
503  }catch(DcrowdException de)
504 {
505  de.printStackTrace();
506  LOGGER.error("DcrowdException : ", de.getMessage());
507  return buildFailureResponse(216, "Failed in CampaignController - Unable to send user rating");
508 }
```

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 92 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: createUser()



Low

Package: com.cts.dcrowd.rest.app.repository

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 92 (System Information Leak)

Low

File: src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java:92 **Taint Flags:**

```
89  userService.createUpdateUser(user);
90  } catch (DcrowdException e) {
91  // TODO Auto-generated catch block
92  e.printStackTrace();
93  }
94  }
95
```

src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java, line 79 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: createUser()

File: src/test/java/com/cts/dcrowd/rest/app/repository/UserControllerTestNG.java:79

Taint Flags:

```
76  user.setCreatedDate(Util.getDateWithTimeAsDate());
77  } catch (DcrowdException e) {
78  // TODO Auto-generated catch block
79  e.printStackTrace();
80  }
81  //user.setSystemDate(new Date());
82
```

Package: com.cts.dcrowd.rest.app.security

src/main/java/com/cts/dcrowd/rest/app/security/LdapUserDetailsMapperWS.java, line 309 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: insertNewUserWebService()

File: src/main/java/com/cts/dcrowd/rest/app/security/LdapUserDetailsMapperWS.java:309



Low

Package: com.cts.dcrowd.rest.app.security

src/main/java/com/cts/dcrowd/rest/app/security/LdapUserDetailsMapperWS.java, line 309 (System Information Leak)

Low

```
306 return user;
307
308 } catch (Exception e) {
309 e.printStackTrace();
310 return null;
311 }
312
```

src/main/java/com/cts/dcrowd/rest/app/security/ApplicationAuthProvider.java, line 107 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: authenticate()

File: src/main/java/com/cts/dcrowd/rest/app/security/ApplicationAuthProvider.java:107

Taint Flags:

```
104 authentication.getCredentials(), grantedAuths);
105 }
106 catch (Exception e) {
107 e.printStackTrace();
108 return null;
109 }
110 }
```

src/main/java/com/cts/dcrowd/rest/app/security/LdapUserDetailsMapperWS.java, line 103 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: loadUserByUsername()

File: src/main/java/com/cts/dcrowd/rest/app/security/LdapUserDetailsMapperWS.java:103

```
100  user = insertNewUserWebService(username);
101  }
102  } catch (Exception e) {
103  e.printStackTrace();
```



Low

Package: com.cts.dcrowd.rest.app.security

src/main/java/com/cts/dcrowd/rest/app/security/LdapUserDetailsMapperWS.java, line 103 (System Information Leak)

Low

```
104 return null;
105 }
106 return user;
```

Package: com.cts.dcrowd.rest.app.security.service.impl

src/main/java/com/cts/dcrowd/rest/app/security/service/impl/ SecurityServiceImpl.java, line 104 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: doAuthenticate()

File: src/main/java/com/cts/dcrowd/rest/app/security/service/impl/SecurityServiceImpl.java:104

Taint Flags:

```
101
102  SecurityContextHolder.getContext().setAuthentication(authentication);
103  } catch(Exception e) {
104  e.printStackTrace();
105  return false;
106  }
107  return true;
```

Package: com.cts.dcrowd.rest.app.service

src/main/java/com/cts/dcrowd/rest/app/service/UserService.java, line 457 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: addUserBadge()

File: src/main/java/com/cts/dcrowd/rest/app/service/UserService.java:457

```
454 }
455 catch (DcrowdException e) {
456 // TODO Auto-generated catch block
457 e.printStackTrace();
458 }
```



System Information Leak Package: com.cts.dcrowd.rest.app.service src/main/java/com/cts/dcrowd/rest/app/service/UserService.java, line 457 (System Information Leak) Low Low

```
459 }
460
```

src/main/java/com/cts/dcrowd/rest/app/service/ProfileImageService.java, line 109 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: saveImage()

File: src/main/java/com/cts/dcrowd/rest/app/service/ProfileImageService.java:109

Taint Flags:

```
106  Util.writeFileToFileServer(imageFile.getBytes(), fileDIR, finalFilePath, false);
107  userService.createUpdateUser(user);
108  } catch (Exception e) {
109  e.printStackTrace();
110
111  }
112
```

src/main/java/com/cts/dcrowd/rest/app/service/UserService.java, line 236 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: setUserProfile()

File: src/main/java/com/cts/dcrowd/rest/app/service/UserService.java:236

```
233  }
234  }catch(Exception e)
235  {
236  e.printStackTrace();
237  }
238  return user;
239  }
```



Low

Package: com.cts.dcrowd.rest.app.service

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 203 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: moderatorsInvitationForCampaigns()

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java:203

Taint Flags:

```
200  }
201
202  } catch (Exception e) {
203  e.printStackTrace();
204  return false;
205  }
206  }
```

src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java, line 1264 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: updateRatingForUser()

File: src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java:1264

Taint Flags:

```
1261
1262 }
1263 } catch (Exception e) {
1264 e.printStackTrace();
1265 throw new DcrowdException("Fails during updateRatingForUser");
1266 }
1267 saveCampaignWithStatus(campaign, CampaignStatus.CAMPAIGN_CLOSED);
```

src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java, line 1039 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)



Low

Package: com.cts.dcrowd.rest.app.service

src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java, line 1039 (System Information Leak)

Low

Sink Details

Sink: printStackTrace()

Enclosing Method: confirmTeam()

File: src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java:1039

Taint Flags:

```
1036 }
1037
1038 catch (Exception e) {
1039 e.printStackTrace();
1040 throw new DcrowdException("Fails during Confirm Team Service" + e.getMessage());
1041 }
1042
```

src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java, line 1992 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: updateCampaignNominationAndConfirmedUsersList() **File:** src/main/java/com/cts/dcrowd/rest/app/service/CampaignService.java:1992

Taint Flags:

```
1989  return false;
1990  }
1991  } catch (DcrowdException e) {
1992  e.printStackTrace();
1993  return false;
1994  }
1995
```

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 345 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: fastesterRegistration()

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java:345



Low

Package: com.cts.dcrowd.rest.app.service

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 345 (System Information Leak)

Low

Taint Flags:

```
342 EmailVO emailConf = emailService.createEmail(configuration, false);
343 emailService.sendEmail(emailConf);
344 } catch (Exception e) {
345 e.printStackTrace();
346 }
347 }
348
```

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 376 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: externalPasswordReset()

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java:376

Taint Flags:

```
373  EmailVO emailConf = emailService.createEmail(configuration, false);
374  emailService.sendEmail(emailConf);
375  } catch (Exception e) {
376  e.printStackTrace();
377  throw new DcrowdException("Failed during sending mail to external");
378  }
379 }
```

src/main/java/com/cts/dcrowd/rest/app/service/EmailService.java, line 137 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: createEmail()

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailService.java:137

```
134 return email;
135
136 } catch (Exception e) {
```



System Information Leak Package: com.cts.dcrowd.rest.app.service src/main/java/com/cts/dcrowd/rest/app/service/EmailService.java, line 137 (System Information Leak) Low 137 e.printStackTrace(); 138 139 }

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 406 (System Information Leak)

Issue Details

return null;

140

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: externalCustomerRegistered()

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java:406

Taint Flags:

```
403  EmailVO emailConf = emailService.createEmail(configuration, false);
404  emailService.sendEmail(emailConf);
405  } catch (Exception e) {
406  e.printStackTrace();
407  }
408  }
409
```

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 428 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: userAssignedMail()

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java:428

```
425  EmailVO emailConf = emailService.createEmail(configuration, false);
426  emailService.sendEmail(emailConf);
427  } catch (Exception e) {
428  e.printStackTrace();
429  }
430  }
431
```



Low

Package: com.cts.dcrowd.rest.app.service

src/main/java/com/cts/dcrowd/rest/app/service/UserService.java, line 496 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: removeUserBadge()

File: src/main/java/com/cts/dcrowd/rest/app/service/UserService.java:496

Taint Flags:

```
493 }
494 } catch (DcrowdException e) {
495  // TODO Auto-generated catch block
496  e.printStackTrace();
497 }
498
499 }
```

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 268 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: defectStatusChangeEmail()

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java:268

Taint Flags:

```
265 EmailVO emailConf = emailService.createEmail(configuration, false);
266 emailService.sendEmail(emailConf);
267 } catch (Exception e) {
268 e.printStackTrace();
269 }
270 }
```

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 136 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)



Low

Package: com.cts.dcrowd.rest.app.service

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 136 (System Information Leak)

Low

Sink Details

Sink: printStackTrace()

Enclosing Method: afterInvitedTester()

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java:136

Taint Flags:

```
133 emailService.sendEmail(emailConf);
134 return true;
135 } catch (Exception e) {
136 e.printStackTrace();
137 return false;
138 }
139 }
```

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 317 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: campaignEmail()

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java:317

Taint Flags:

```
314  }
315  return true;
316  } catch (Exception e) {
317  e.printStackTrace();
318  return false;
319  }
320  }
```

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 169 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: inviteExternalModerators()

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java:169



Low

Package: com.cts.dcrowd.rest.app.service

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 169 (System Information Leak)

Low

Taint Flags:

```
166 emailService.sendEmail(emailConf);
167 return true;
168 } catch (Exception e) {
169 e.printStackTrace();
170 return false;
171 }
172 }
```

src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java, line 238 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: afterRegistration()

File: src/main/java/com/cts/dcrowd/rest/app/service/EmailEventService.java:238

Taint Flags:

```
235 EmailVO emailConf = emailService.createEmail(configuration, false);
236 emailService.sendEmail(emailConf);
237 } catch (Exception e) {
238 e.printStackTrace();
239 }
240 }
```

Package: com.cts.dcrowd.rest.app.service.helper

src/main/java/com/cts/dcrowd/rest/app/service/helper/ ApplicationQueryProcessor.java, line 423 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: getUserBadgeToGenerateReport()

File: src/main/java/com/cts/dcrowd/rest/app/service/helper/ApplicationQueryProcessor.java:423

Taint Flags:

420 }



Low

Package: com.cts.dcrowd.rest.app.service.helper

src/main/java/com/cts/dcrowd/rest/app/service/helper/ ApplicationQueryProcessor.java, line 423 (System Information Leak)

Low

```
421 catch(Exception e)
422 {
423 e.printStackTrace();
424 }
425 return null;
426 }
```

Package: com.cts.dcrowd.rest.app.util

src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java, line 104 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: generateBlowFishDecryptValue()

File: src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java:104

Taint Flags:

```
101 strData = new String(decrypted);
102 System.out.println(strData);
103 } catch (Exception e) {
104 e.printStackTrace();
105 }
106 return strData;
107 }
```

src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java, line 62 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: base64Decoder()

File: src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java:62

```
59 try {
60 sourceValue = new String(Base64.getDecoder().decode(encodedValue), "utf-8");
61 } catch (Exception e) {
62 e.printStackTrace();
```



System Information Leak Package: com.cts.dcrowd.rest.app.util src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java, line 62 (System Information Leak) Low 63 } 64 return sourceValue; 65 }

src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java, line 82 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: generateBlowFishEncryptValue()

File: src/test/java/com/cts/dcrowd/rest/app/util/TestUtil.java:82

Taint Flags:

```
79 byte[] encrypted=cipher.doFinal(sourceValue.getBytes());
80 strData = new String(Base64.getEncoder().encode(encrypted));
81 } catch (Exception e) {
82 e.printStackTrace();
83 }
84 return strData;
85 }
```

Package: com.cts.dcrowd.rest.app.utils

src/main/java/com/cts/dcrowd/rest/app/utils/EmailDomainFilterUtility.java, line 35 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: EmailDomainFilterUtility()

File: src/main/java/com/cts/dcrowd/rest/app/utils/EmailDomainFilterUtility.java:35

```
32 try {
33 loadDomainList();
34 } catch (Exception e) {
35 e.printStackTrace();
36 }
37 }
```



Low

Package: com.cts.dcrowd.rest.app.utils

src/main/java/com/cts/dcrowd/rest/app/utils/EmailDomainFilterUtility.java, line 35 (System Information Leak)

Low

src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 509 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: generateBlowFishEncryptValue()

File: src/main/java/com/cts/dcrowd/rest/app/utils/Util.java:509

Taint Flags:

```
506  //strData = base64Encoder(encrypted);
507  strData = encrypted.toString();
508  } catch (Exception e) {
509  e.printStackTrace();
510  }
511  return strData;
512 }
```

src/main/java/com/cts/dcrowd/rest/app/utils/StopwordUtility.java, line 37 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: StopwordUtility()

File: src/main/java/com/cts/dcrowd/rest/app/utils/StopwordUtility.java:37

Taint Flags:

```
34 try {
35 loadStopList();
36 } catch (Exception e) {
37 e.printStackTrace();
38 }
39 }
40
```

src/main/java/com/cts/dcrowd/rest/app/utils/ZipUtil.java, line 38 (System Information Leak)

Low

Issue Details



Low

Package: com.cts.dcrowd.rest.app.utils

src/main/java/com/cts/dcrowd/rest/app/utils/ZipUtil.java, line 38 (System Information Leak)

Low

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: gzipCompress()

File: src/main/java/com/cts/dcrowd/rest/app/utils/ZipUtil.java:38

Taint Flags:

```
35  gzipOS.close();
36  result = bos.toByteArray();
37  } catch (IOException e) {
38  e.printStackTrace();
39  throw new DcrowdException("Exception in Util Library : Compression");
40  }
41  return result;
```

src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 532 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: generateBlowFishDecryptValue()

File: src/main/java/com/cts/dcrowd/rest/app/utils/Util.java:532

Taint Flags:

```
529 try {
530 basicAuthString = new String(Base64.getDecoder().decode(encryptedValue),
StandardCharsets.UTF_8).split("fastestCustomers");
531 } catch (Exception e) {
532 e.printStackTrace();
533 }
534 return basicAuthString!=null && basicAuthString.length != 0 ? basicAuthString[0] : null;
535 }
```

src/main/java/com/cts/dcrowd/rest/app/utils/ZipUtil.java, line 64 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation Scan Engine: SCA (Semantic)

Sink Details



Low

Package: com.cts.dcrowd.rest.app.utils

src/main/java/com/cts/dcrowd/rest/app/utils/ZipUtil.java, line 64 (System Information Leak)

Low

Sink: printStackTrace()

Enclosing Method: gzipUncompress()

File: src/main/java/com/cts/dcrowd/rest/app/utils/ZipUtil.java:64

Taint Flags:

```
61  }
62  result = bos.toByteArray();
63  } catch (IOException e) {
64  e.printStackTrace();
65  throw new DcrowdException("Exception in Util Library : DeCompression");
66  }
67  return result;
```

Package: com.cts.dcrowd.rest.defect.app.jira.services

src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java, line 277 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()

Enclosing Method: doAddCommentsPost()

File: src/main/java/com/cts/dcrowd/rest/defect/app/jira/services/JiraService.java:277

Taint Flags:

```
274
275  } catch (JSONException | IOException e) {
276   // TODO Auto-generated catch block
277  e.printStackTrace();
278  }
279  }
280
```

Package: com.cts.dcrowd.rest.defect.app.services.impl

src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/ DcrowdDefectEntryServiceImpl.java, line 694 (System Information Leak)

Low

Issue Details

Kingdom: Encapsulation **Scan Engine:** SCA (Semantic)

Sink Details

Sink: printStackTrace()



System Information Leak	Low
Package: com.cts.dcrowd.rest.defect.app.services.impl	
src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/	Low

Enclosing Method: cloneDefectEntriesForExport() **File:** src/main/java/com/cts/dcrowd/rest/defect/app/services/impl/DcrowdDefectEntryServiceImpl.java:694 **Taint Flags:**

```
691  user = userService.findByUsername(defectEntry.getDeUserId());
692  } catch (DcrowdException e) {
693  // TODO Auto-generated catch block
694  e.printStackTrace();
695  }
696  cloneDefectMap.put("LOGGEDEMAILID", user.getEmail());
697  cloneDefectMap.put("USERLOCATION", defectEntry.getUserLocation());
```



System Information Leak: Spring Boot Actuators Enabled (1 issue)

Abstract

Enabling Spring Boot Actuators may reveal system data and debugging information which may help an adversary learn about the system and form a plan of attack.

Explanation

Spring Boot Actuators allow users to monitor and interact with the application. There are different built-in Actuators which expose system data and debugging information through HTTP endpoints, JMX or even by remote shell (SSH or Telnet). Attackers may benefit from this information to learn about the system and gather information that could be used to attack the application.

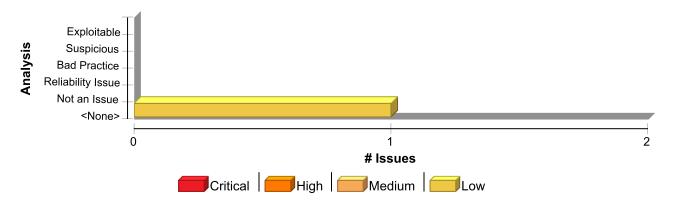
Recommendation

Configure Actuators with security in mind. If the Actuator reveals sensitive data, it should be flagged as such so that unauthenticated users cannot access it. **Example**: The following property can be used to make all Actuator endpoints sensitive:

endpoints.sensitive=true

In production environments, turn off detailed error information in favor of brief messages. Restrict the generation and storage of detailed output that can help administrators and programmers diagnose problems.

Issue Summary



Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
System Information Leak: Spring Boot Actuators Enabled	1	0	0	1
Total	1	0	0	1

System Information Leak: Spring Boot Actuators Enabled	Low
Package: <none></none>	
pom.xml, line 26 (System Information Leak: Spring Boot Actuators Enabled)	Low
Issue Details	

Kingdom: Encapsulation

Scan Engine: SCA (Configuration)



Syst	em Information Leak: Spring Boot Actuators Enabled	Low
Pacl	kage: <none></none>	
pom	.xml, line 26 (System Information Leak: Spring Boot Actuators Enabled)	Low
Sin	k Details	
	File: pom.xml:26 Taint Flags:	
23	<dependencies></dependencies>	
24	<dependency></dependency>	
25	<pre><groupid>org.springframework.boot</groupid></pre>	
26	<pre><artifactid>spring-boot-starter-actuator</artifactid></pre>	
27		
28	<dependency></dependency>	

29 <groupId>org.springframework.boot</groupId>



Unchecked Return Value (3 issues)

Abstract

Ignoring a method's return value can cause the program to overlook unexpected states and conditions.

Explanation

It is not uncommon for Java programmers to misunderstand read() and related methods that are part of many java.io classes. Most errors and unusual events in Java result in an exception being thrown. (This is one of the advantages that Java has over languages like C: Exceptions make it easier for programmers to think about what can go wrong.) But the stream and reader classes do not consider it unusual or exceptional if only a small amount of data becomes available. These classes simply add the small amount of data to the return buffer, and set the return value to the number of bytes or characters read. There is no guarantee that the amount of data returned is equal to the amount of data requested. This behavior makes it important for programmers to examine the return value from read() and other IO methods to ensure that they receive the amount of data they expect. **Example:** The following code loops through a set of users, reading a private data file for each user. The programmer assumes that the files are always exactly 1 kilobyte in size and therefore ignores the return value from read(). If an attacker can create a smaller file, the program will recycle the remainder of the data from the previous user and handle it as though it belongs to the attacker.

```
FileInputStream fis;
byte[] byteArray = new byte[1024];
for (Iterator i=users.iterator(); i.hasNext();) {
    String userName = (String) i.next();
    String pFileName = PFILE_ROOT + "/" + userName;
    FileInputStream fis = new FileInputStream(pFileName);
    fis.read(byteArray); // the file is always 1k bytes
    fis.close();
    processPFile(userName, byteArray);
}
```

Recommendation

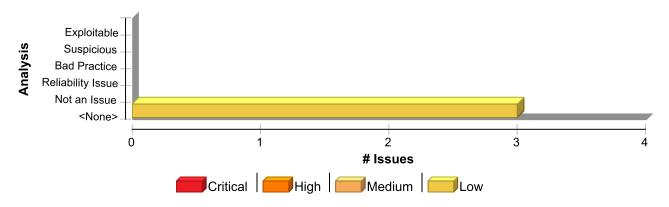
```
FileInputStream fis;
byte[] byteArray = new byte[1024];
for (Iterator i=users.iterator(); i.hasNext();) {
   String userName = (String) i.next();
   String pFileName = PFILE_ROOT + "/" + userName;
   fis = new FileInputStream(pFileName);
   int bRead = 0;
   while (bRead < 1024) {
      int rd = fis.read(byteArray, bRead, 1024 - bRead);
      if (rd == -1) {
        throw new IOException("file is unusually small");
      }
      bRead += rd;
   }
   // could add check to see if file is too large here
   fis.close();
   processPFile(userName, byteArray);
}</pre>
```

Note: Because the fix for this problem is relatively complicated, you might be tempted to use a simpler approach, such as checking the size of the file before you begin reading. Such an approach would render the application vulnerable to a file system race condition, whereby an attacker could replace a well-formed



file with a malicious file between the file size check and the call to read data from the file.

Issue Summary



Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
Unchecked Return Value	3	0	0	3
Total	3	0	0	3

Unchecked Return Value	Low
Package: com.cts.dcrowd.rest.app.utils	
src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 762 (Unchecked Return Value)	Low

Issue Details

Kingdom: API Abuse

Scan Engine: SCA (Semantic)

Sink Details

Sink: read()

Enclosing Method: encodeFileToBase64Binary()

File: src/main/java/com/cts/dcrowd/rest/app/utils/Util.java:762

Taint Flags:

```
759 try {
760 FileInputStream fileInputStreamReader = new FileInputStream(file);
761 byte[] bytes = new byte[(int)file.length()];
762 fileInputStreamReader.read(bytes);
763 encodedfile = new String(org.apache.commons.codec.binary.Base64.encodeBase64(bytes),
"UTF-8");
764 fileInputStreamReader.close();
765 } catch (FileNotFoundException e) {
```

src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 672 (Unchecked Return Value)

Low

Issue Details

Kingdom: API Abuse

Scan Engine: SCA (Semantic)



Unchecked Return Value

Low

Package: com.cts.dcrowd.rest.app.utils

src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 672 (Unchecked Return Value)

Low

Sink Details

Sink: delete()

Enclosing Method: writeFileToFileServer()

File: src/main/java/com/cts/dcrowd/rest/app/utils/Util.java:672

Taint Flags:

```
669 file = new File(finalFilePath);
670
671 if (file.exists()) {
672 file.delete();
673 }
674 } else {
675 if (!new File(fileDIR).exists()) {
```

src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 676 (Unchecked Return Value)

Low

Issue Details

Kingdom: API Abuse

Scan Engine: SCA (Semantic)

Sink Details

Sink: mkdirs()

Enclosing Method: writeFileToFileServer()

File: src/main/java/com/cts/dcrowd/rest/app/utils/Util.java:676

```
673  }
674  } else {
675  if (!new File(fileDIR).exists()) {
676  new File(fileDIR).mkdirs();
677  }
678  file = new File(finalFilePath);
679  try (ByteArrayInputStream inputStream = new ByteArrayInputStream(imageData)) {
```



Unreleased Resource: Streams (1 issue)

Abstract

The program can potentially fail to release a system resource.

Explanation

The program can potentially fail to release a system resource. Resource leaks have at least two common causes: - Error conditions and other exceptional circumstances. - Confusion over which part of the program is responsible for releasing the resource. Most unreleased resource issues result in general software reliability problems. However, if an attacker can intentionally trigger a resource leak, the attacker may be able to launch a denial of service attack by depleting the resource pool. **Example:** The following method never closes the file handle it opens. The finalize() method for FileInputStream eventually calls close(), but there is no guarantee as to how long it will take before the finalize() method will be invoked. In a busy environment, this can result in the JVM using up all of its file handles.

private void processFile(String fName) throws FileNotFoundException.

```
private void processFile(String fName) throws FileNotFoundException,
IOException {
  FileInputStream fis = new FileInputStream(fName);
  int sz;
  byte[] byteArray = new byte[BLOCK_SIZE];
  while ((sz = fis.read(byteArray)) != -1) {
    processBytes(byteArray, sz);
  }
}
```

Recommendation

1. Never rely on finalize() to reclaim resources. In order for an object's finalize() method to be invoked, the garbage collector must determine that the object is eligible for garbage collection. Because the garbage collector is not required to run unless the JVM is low on memory, there is no guarantee that an object's finalize() method will be invoked in an expedient fashion. When the garbage collector finally does run, it may cause a large number of resources to be reclaimed in a short period of time, which can lead to "bursty" performance and lower overall system throughput. This effect becomes more pronounced as the load on the system increases. Finally, if it is possible for a resource reclamation operation to hang (if it requires communicating over a network to a database, for example), then the thread that is executing the finalize() method will hang. 2. Release resources in a finally block. The code for the Example should be rewritten as follows:

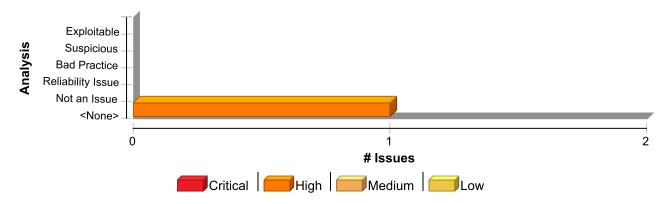
```
public void processFile(String fName) throws FileNotFoundException,
IOException {
  FileInputStream fis;
  try {
    fis = new FileInputStream(fName);
    int sz;
    byte[] byteArray = new byte[BLOCK_SIZE];
    while ((sz = fis.read(byteArray)) != -1) {
       processBytes(byteArray, sz);
    }
  }
  finally {
    if (fis != null) {
       safeClose(fis);
    }
  }
}
```



```
public static void safeClose(FileInputStream fis) {
  if (fis != null) {
    try {
      fis.close();
    } catch (IOException e) {
      log(e);
  }
```

This solution uses a helper function to log the exceptions that might occur when trying to close the stream. Presumably this helper function will be reused whenever a stream needs to be closed. Also, the processFile method does not initialize the fis object to null. Instead, it checks to ensure that fis is not null before calling safeClose(). Without the null check, the Java compiler reports that fis might not be initialized. This choice takes advantage of Java's ability to detect uninitialized variables. If fis is initialized to null in a more complex method, cases in which fis is used without being initialized will not be detected by the compiler.

Issue Summary



Engine Breakdown

	SCA	Weblnspect	SecurityScope	Total
Unreleased Resource: Streams	1	0	0	1
Total	1	0	0	1

Unreleased Resource: Streams

High

Package: com.cts.dcrowd.rest.app.utils

src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 760 (Unreleased Resource: Streams)

High

Issue Details

Kingdom: Code Quality

Scan Engine: SCA (Control Flow)

Sink Details

Sink: fileInputStreamReader = new FileInputStream(...) Enclosing Method: encodeFileToBase64Binary()

File: src/main/java/com/cts/dcrowd/rest/app/utils/Util.java:760



Unreleased Resource: Streams	High
Package: com.cts.dcrowd.rest.app.utils	
src/main/java/com/cts/dcrowd/rest/app/utils/Util.java, line 760 (Unreleased Resource: Streams)	High

```
757 File file = new File(filePath);
758 String encodedfile = null;
759 try {
760 FileInputStream fileInputStreamReader = new FileInputStream(file);
761 byte[] bytes = new byte[(int)file.length()];
762 fileInputStreamReader.read(bytes);
763 encodedfile = new String(org.apache.commons.codec.binary.Base64.encodeBase64(bytes),
"UTF-8");
```



