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### Code Smells

1. Long method

private Document createDocument(String path, File relativePathRoot, String user, String pass) {  
 assert path != null;  
 path = path.trim();  
 String lowerPath = path.toLowerCase();  
 if (lowerPath.startsWith("http://") || lowerPath.startsWith("https://")) {  
 try {  
 if (user == null && pass == null) {  
 WebDavServerDescriptor server = myWebDavStorage.findServer(path);  
 if (server != null) {  
 user = server.getUsername();  
 pass = server.getPassword();  
 }  
 }  
 return new HttpDocument(path, user, pass, myWebDavStorage.getProxyOption());  
 } catch (IOException e) {  
 GPLogger.*log*(e);  
 return null;  
 } catch (WebDavException e) {  
 GPLogger.*log*(e);  
 return null;  
 }  
 } else if (lowerPath.startsWith("cloud://")) {  
 var patchedUrl = DocumentKt.*asDocumentUrl*(lowerPath);  
 if (patchedUrl.component2().equals("cloud")) {  
 return new GPCloudDocument(  
 null,  
 DocumentUri.*LocalDocument*.createPath(patchedUrl.component1().getPath()).getParent().getFileName(),  
 patchedUrl.component1().getHost(),  
 DocumentUri.*LocalDocument*.createPath(patchedUrl.component1().getPath()).getFileName(),  
 null  
 );  
 }  
 } else if (lowerPath.startsWith("ftp:")) {  
 return new FtpDocument(path, myFtpUserOption, myFtpPasswordOption);  
 } else if (!lowerPath.startsWith("file://") && path.contains("://")) {  
 // Generate error for unknown protocol  
 throw new RuntimeException("Unknown protocol: " + path.substring(0, path.indexOf("://")));  
 }  
 File file = new File(path);  
 if (file.toPath().isAbsolute()) {  
 return new FileDocument(file);  
 }  
 File relativeFile = new File(relativePathRoot, path);  
 return new FileDocument(relativeFile);  
}

Location: ganttproject/src/main/java/net/sourceforge/ganttproject/document/DocumentCreator.java

This method is too long which makes it more difficult to comprehend, is doing more than one thing and produces more code smells.

Solution: Create new methods with fragments of the code.

1. Dead Code

public class PreferenceServiceImpl implements IPreferencesService {  
  
 @Override  
 public IStatus applyPreferences(IExportedPreferences preferences) throws CoreException {  
 // *TODO Auto-generated method stub* return null;  
 }  
  
 @Override  
 public void applyPreferences(IEclipsePreferences node, IPreferenceFilter[] filters) throws CoreException {  
 // *TODO Auto-generated method stub* }

Location: ganttproject/src/main/java/net/sourceforge/ganttproject/PreferenceServiceImpl.java

This class, PreferenceServiceUmpl , isn’t used, has only the methods inherited from the interfaceIPreferencesService but they aren’t implemented and doesn’t have variables.

Solution: Delete this class.

1. Comments

private static String connectStringArray(String[] a) {  
 if (a == null)  
 return null;  
  
 String s = "";  
 for (int i = 0; i < a.length; i++) {  
 if (i > 0)  
 s += " ";  
 s += a[i];  
 }  
  
 return s;  
}

Location:

ganttproject/src/main/java/net/sourceforge/ganttproject/util/BrowserControl.java

This method has no comments, and so it is hard to understand what the code is doing.

Solution: Add comments to the method to clarify what the code should do.