```
File - /Users/beathoven/Library/Mobile Documents/com~apple~CloudDocs/Projects/translation-tool/src/main/java/net/wiredclub/translation/FileHelper.java
 1 package net.wiredclub.translation;
 2
 3 import org.eclipse.jgit.api.Git;
 4 import org.eclipse.jqit.api.errors.GitAPIException;
 5 import org.eclipse.igit.lib.ObjectId;
 6 import org.eclipse.jgit.lib.ObjectLoader;
 7 import org.eclipse.jqit.lib.Repository;
 8 import org.eclipse.jgit.revwalk.RevCommit;
 9 import org.eclipse.jqit.treewalk.TreeWalk;
10 import org.eclipse.jqit.treewalk.filter.PathFilter;
11
12 import java.io.ByteArrayOutputStream;
13 import java.io.File;
14 import java.io.IOException;
15 import java.nio.charset.StandardCharsets;
16 import java.nio.file.Files;
17 import java.nio.file.Path;
18 import java.nio.file.Paths;
19 import java.nio.file.StandardOpenOption;
20 import java.util.Set:
21 import java.util.stream.Collectors;
22 import java.util.stream.Stream;
23
24 /**
25 * A helper class for file operations, e.g.
26 * it reads a text file, writes back the output, or scans the language
27 * directory for existing languages.
28 * For a GIT repo, it traverses back one commit and returns the file
29 * in its previous version.
30 */
31 public class FileHelper {
32
33
       // private static final Logger LOG = LoggerFactory.getLogger(FileHelper.class);
34
       public String readFile(String fileName) throws TranslationFileNotFoundException {
35
36
           try {
```

37

return Files.readString(Paths.get(fileName), StandardCharsets.UTF_8);

```
File - /Users/beathoven/Library/Mobile Documents/com~apple~CloudDocs/Projects/translation-tool/src/main/java/net/wiredclub/translation/FileHelper.java
           } catch (IOException e) {
38
39
                throw new TranslationFileNotFoundException(fileName);
40
            }
       }
41
42
43
       public void writeFile(String fileName, String content) throws IOException {
44
            Files.writeString(Paths.get(new File(fileName).toURI()),
45
                    content,
46
                    StandardCharsets.UTF_8,
                    StandardOpenOption.CREATE,
47
48
                    StandardOpenOption.TRUNCATE_EXISTING);
49
       }
50
51
       public String readPreviousFileFromHistory(String repositoryPath, String fileName, int revRange)
52
                throws IOException, TranslationFileNotFoundException {
53
           try (Git git = Git.open(new File(repositoryPath))) {
54
                Repository repository = qit.qetRepository();
55
56
                Iterable<RevCommit> revCommits = git.log().setSkip(revRange).call();
                for (RevCommit revCommit : revCommits) {
57
58
                    try (TreeWalk treeWalk = new TreeWalk(repository)) {
59
                        treeWalk.addTree(revCommit.getTree());
                        treeWalk.setRecursive(true);
60
                        treeWalk.setFilter(PathFilter.create(fileName));
61
62
63
                        if (!treeWalk.next()) {
                             throw new TranslationFileNotFoundException(fileName);
64
                         }
65
                        ObjectId objectId = treeWalk.getObjectId(0);
66
67
68
                         ObjectLoader loader = repository.open(objectId);
                        ByteArrayOutputStream stream = new ByteArrayOutputStream();
69
                        loader.copyTo(stream);
70
71
                        return stream.toString(StandardCharsets.UTF_8);
72
73
                    }
74
                }
```

```
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 75
              } catch (GitAPIException e) {
 76
                  throw new RuntimeException(e);
 77
              }
 78
 79
              throw new TranslationFileNotFoundException(fileName);
 80
         }
 81
         public Set<String> discoverLanguageDirectories(String dir) throws IOException {
 82
              try (Stream<Path> stream = Files.list(Paths.get(dir))) {
 83
 84
                  return stream.filter(Files::isDirectory)
                            .map(Path::getFileName)
 85
                            .map(Path::toString)
 86
                            .collect(Collectors.toSet());
 87
 88
 89
         }
 90 }
 91
```