

***** **DownloadRepository.java** *****

```
package cu.cs.cpsc215.project1;
```

```
import java.io.IOException;
```

```
import java.util.ArrayList;
```

```
/**
```

```
 * Downloads and passes WebElements
```

```
 * key piece in saving, which is the last step
```

```
 * Previous implementations of this class were intended to directly save each  
element
```

```
 *           this was a bad idea, plus it was slow
```

```
 * Singleton class, hopefully I set it up correctly
```

```
 *
```

```
 * @author cfitt
```

```
 *
```

```
 */
```

```
public class DownloadRepository implements Repository{
```

```
    private static DownloadRepository instance;
```

```
    private ArrayList<WebFile> files;
```

```
    private ArrayList<WebImage> images;
```

```
    //Combine above to have a list of all places visited
```

```
    private ArrayList<String> names;
```

```
    private DownloadRepository()
```

```
    {
```

```
        files = new ArrayList<WebFile>();
```

```
        images = new ArrayList<WebImage>();
```

```
    }
```

```
    public static DownloadRepository getInstance()
```

```
    {
```

```
        if (instance == null)
```

```
            instance = new DownloadRepository();
```

```
        return instance;
```

```
    }
```

```
    public void addName(String urlName){
```

```
        names.add(urlName);
```

```
    }
```

```
    public boolean visted(String urlCheck){
```

```
        if(!names.contains(urlCheck))
```

```
            return true;
```

```
        return false;
```

```
}
```

```
public void download(String savePath) throws IOException  
{
```

```
    for (WebFile webFile : files)  
        webFile.saver(savePath);  
    for (WebImage webImage : images)  
        webImage.saver(savePath);
```

```
}
```

```
public void addWebElements(WebPage webPage) {  
    for (WebFile webFile : webPage.GetFiles())  
        files.add(webFile);  
    for (WebImage webImage : webPage.getImages())  
        images.add(webImage);  
}
```

```
}
```