

Present ORIGINAL URL Spelling Checker

- Run demo
- Load src/*.java into Visual Studio
- Note dependencies between SpellingChecker and URLFetcher, WordExtractor, Dictionary
- Explain "original" diagram in MockObject.vsd

Using the INTERMEDIATE version, show how to break the dependency between SpellingChecker and URLFetcher

- Focus only on URLFetcher (WordExtractor and Dictionary can be handled similarly)
- Load the following into Visual Studio:
 - src/spellcheck/SpellingChecker.java
 - src/spellcheck/IURLFetcher.java
 - src/spellcheck/URLFetcherFactory.java
 - src/spellcheck/URLFetcher.java
- Explain: IURLFetcher, URLFetcher, URLFetcherFactory, SpellingChecker
- Explain "intermediate" diagram in MockObject.vsd

SpellingChecker no longer depends on URLFetcher. However, URLFetcherFactory is hard-coded to always return an instance of URLFetcher (i.e., the factory depends on URLFetcher).

We would like to be able to configure the factory to return an alternative implementation of IURLFetcher, thus allowing us to insert stubs into SpellingChecker.

Using the COMPLETE version, show how to break the dependency between URLFetcherFactory and URLFetcher

- Load the following into Visual Studio:
 - src/spellcheck/SpellingChecker.java
 - src/spellcheck/IURLFetcher.java
 - src/spellcheck/URLFetcherFactory.java
 - src/spellcheck/URLFetcher.java
 - src/spellcheck/IURLFetcherCreator.java
 - src/spellcheck/Main.java
 - test/spellcheck/SpellingCheckerTest.java
- Explain IURLFetcherCreator, URLFetcherFactory, Main, SpellingChecker
- Explain "complete" diagram in MockObject.vsd
- Show how SpellingCheckerTest can now substitute its stubs into the factory to isolate the unit
- Stubs are called "mock objects", thus the name of the pattern
- Explain "complete-tests" diagram in MockObject.vsd