HTTP Server

JabRef has a built-in http server. For example, the resource for a library is implemented at `org.jabref.http.server.LibraryResource`.

Start http server

The class starting the server is `org.jabref.http.server.Server`.

Test files to server can be passed as arguments. If no files are passed, the last opened files are served. If that list is also empty, the file `src/main/resources/org/jabref/http/server/http-server-demo.bib` is served.

Starting with gradle

Does not work.

Current try:

```
./gradlew run -Pcomment=httpserver
```

However, there are with `ForkJoin` (discussion at https://discuss.gradle.org/t/is-it-ok-to-use-collection-parallelstream-or-other-potentially-multi-threaded-code-within-gradle-plugin-code/28003)

Gradle output:

```
> Task :run
2023-04-22 11:30:59 [main] org.jabref.http.server.Server.main()
DEBUG: Libraries served: [C:\git-repositories\jabref-all\jabref\src\main\resources\org\jabref\http\serve
2023-04-22 11:30:59 [main] org.jabref.http.server.Server.startServer()
DEBUG: Starting server...
<=============-> 92% EXECUTING [2m 27s]
> :run
```

IntelliJ output, if `org.jabref.http.server.Server#main` is executed:

```
DEBUG: Starting server...
2023-04-22 11:44:59 [ForkJoinPool.commonPool-worker-1] org.glassfish.grizzly.http.server.NetworkListener
INFO: Started listener bound to [localhost:6051]
2023-04-22 11:44:59 [ForkJoinPool.commonPool-worker-1] org.glassfish.grizzly.http.server.HttpServer.star
```

```
INFO: [HttpServer] Started.

2023-04-22 11:44:59 [ForkJoinPool.commonPool-worker-1] org.jabref.http.server.Server.lambda$startServer$

DEBUG: Server started.
```

Developing with IntelliJ

IntelliJ Ultimate offers a Markdown-based http-client. One has to open the file `src/test/java/org/jabref/testutils/interactive/http/rest-api.http`. Then, there are play buttons appearing for interacting with the server.

Get SSL Working

When interacting with the Microsoft Word AddIn, a SSL-based connection is required. The Word-AddIn is currently under development.

(Based on https://stackoverflow.com/a/57511038/873282)

Howto for Windows - other operating systems work similar:

1 As admin `choco install mkcert`
2 As admin: `mkcert -install`
3 `cd %APPDATA%\..\local\org.jabref\jabref\ssl`
4 `mkcert -pkcs12 jabref.desktop jabref localhost 127.0.0.1 ::1`
5 Rename the file to `server.p12`

Note: If you do not do this, you get following error message:

```
Could not find server key store C:\Users\USERNAME\AppData\Local\org.jabref\jabref\ssl\server.p12.
```