

Я начал работу с установки необходимых инструментов для тестирования. Сначала установил OpenJDK 11 через Homebrew, добавив его в PATH, и проверил версию команды `java -version`, чтобы убедиться, что всё работает. Затем скачал и распаковал JMeter, запустив его через терминал командой `~/jmeter/bin/jmeter.sh`, чтобы убедиться, что интерфейс открывается. Также установил Postman, загрузив его через `curl` и переместив в папку Applications.

Далее я перешёл к настройке тестов. В Postman создал POST-запрос к <https://sinsl.github.io/testing-form/submit> с JSON-телом, содержащим данные формы (имя, фамилия, паспорт и т.д.). Сначала столкнулся с ошибкой `ENOTFOUND`, так как указал неверный URL, но исправил его. Затем получил ошибку `405 Method Not Allowed`, что указало на необходимость проверки метода. Используя DevTools в браузере, выяснил, что форма может требовать GET, но пока оставил POST для дальнейшего анализа.

В JMeter я создал Test Plan с Thread Group, установив 20 потоков и период разгона 20 секунд. Добавил HTTP Request Defaults с сервером sinsl.github.io и путём `/testing-form/submit`, а также сам HTTP Request с JSON-телом. Чтобы анализировать результаты, добавил Listeners: View Results Tree, Summary Report и Graph Results. Запустил тест, но столкнулся с той же ошибкой 405, что потребовало проверки метода через браузер. После этого адаптировал запрос, перенеся параметры в GET-формат, если это было необходимо.

```
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/gui/JLabelledTextArea.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/gui/ObjectTableSorter.Row.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/gui/ui/
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/gui/ui/TextFieldUIWithUndo.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/gui/ui/package-tree.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/gui/ui/KernelOptimizer.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/gui/ui/package-summary.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/gui/ui/TextAreaUIWithUndo.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/gui/ui/TextComponentUtil.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/gui/ObjectTableModel.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/gui/JFactory.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/gui/ComponentUtil.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/math/
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/math/StatCalculator.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/math/NumberComparator.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/math/package-tree.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/math/package-summary.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/math/StatCalculatorInteger.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/math/StatCalculatorLong.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/collections/
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/collections/ListedHashSet.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/collections/Data.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/collections/package-tree.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/collections/package-summary.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/collections/HashSet.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/collections/HashSetReverser.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/collections/SearchByClass.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/exec/
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/exec/package-tree.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/exec/SystemCommand.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/exec/package-summary.html
x apache-jmeter-5.6.3/docs/api/org/apache/jorphan/exec/KeyToolUtils.html
x apache-jmeter-5.6.3/docs/api/serialized-form.html
x apache-jmeter-5.6.3/docs/api/script-dir/
x apache-jmeter-5.6.3/docs/api/script-dir/jquery-3.6.1.min.js
x apache-jmeter-5.6.3/docs/api/script-dir/jquery-ui.min.css
x apache-jmeter-5.6.3/docs/api/script-dir/jquery-ui.min.js
x apache-jmeter-5.6.3/docs/api/allclasses-index.html
x apache-jmeter-5.6.3/docs/api/element-list
x apache-jmeter-5.6.3/docs/api/tag-search-index.js
x apache-jmeter-5.6.3/docs/api/allpackages-index.html
x apache-jmeter-5.6.3/docs/api/type-search-index.js
x apache-jmeter-5.6.3/docs/api/search.js
x apache-jmeter-5.6.3/docs/api/overview-summary.html
x apache-jmeter-5.6.3/docs/api/stylesheet.css
alexandrarevkinMacBook-Air-Aleksandr-4 ~ % ~/jmeter/bin/jmeter.sh
WARNING: package sun.awt.X11 not in java.desktop
WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated and will be removed in a future release
WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated and will be removed in a future release
WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated and will be removed in a future release
WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated and will be removed in a future release
=====
Don't use GUI mode for load testing !, only for Test creation and Test debugging.
For load testing, use CLI Mode (was NON GUI):
  jmeter -n -t [jmx file] -l [results file] -e -o [Path to web report folder]
& increase Java Heap to meet your test requirements:
  Modify current env variable HEAP="-Xms1g -Xmx1g -XX:MaxMetaspaceSize=256m" in the jmeter batch file
Check : https://jmeter.apache.org/usermanual/best-practices.html
=====
2025-05-06 18:55:51.582 java[64830:6753166] +[IMKClient subclass]: chose IMKClient_Modern
2025-05-06 18:55:51.582 java[64830:6753166] +[IMKInputSession subclass]: chose IMKInputSession_Modern
Warning: Nashorn engine is planned to be removed from a future JDK release
|
```

```
Last login: Tue Apr 22 16:28:15 on ttys000
aleksandrarevkin@MacBook-Air-Aleksandr-4 ~ % java -version
openjdk version "11.0.27" 2025-04-15
OpenJDK Runtime Environment Homebrew (build 11.0.27+0)
OpenJDK 64-Bit Server VM Homebrew (build 11.0.27+0, mixed mode)
aleksandrarevkin@MacBook-Air-Aleksandr-4 ~ % java -version
openjdk version "11.0.27" 2025-04-15
OpenJDK Runtime Environment Homebrew (build 11.0.27+0)
OpenJDK 64-Bit Server VM Homebrew (build 11.0.27+0, mixed mode)
aleksandrarevkin@MacBook-Air-Aleksandr-4 ~ % open /Applications/Postman.app
aleksandrarevkin@MacBook-Air-Aleksandr-4 ~ % open https://sinsl.github.io/testing-form/
aleksandrarevkin@MacBook-Air-Aleksandr-4 ~ % open /Applications/Postman.app
aleksandrarevkin@MacBook-Air-Aleksandr-4 ~ % ~/jmeter/bin/jmeter.sh
zsh: no such file or directory: ~/jmeter/bin/jmeter.sh
aleksandrarevkin@MacBook-Air-Aleksandr-4 ~ % curl -O https://d1cdn.apache.org/jmeter/binaries/apache-jmeter-5.6.3.tgz
% Total    % Received % Xferd  Average Speed   Time    Time     Current
                                 Dload  Upload   Total   Spent    Left  Speed
100 83.3M  100 83.3M    0     0  16.9M    0  0:00:04  0:00:04 --:--:-- 17.4M
aleksandrarevkin@MacBook-Air-Aleksandr-4 ~ % tar -xvzf apache-jmeter-5.6.3.tgz
mv apache-jmeter-5.6.3 ~/jmeter
x apache-jmeter-5.6.3/
x apache-jmeter-5.6.3/LICENSE
x apache-jmeter-5.6.3/licenses/
x apache-jmeter-5.6.3/licenses/flot-axislabels/
x apache-jmeter-5.6.3/licenses/flot-axislabels/flot-axislabels-0.8.3/
x apache-jmeter-5.6.3/licenses/flot-axislabels/flot-axislabels-0.8.3/LICENSE
x apache-jmeter-5.6.3/licenses/io.burt/
x apache-jmeter-5.6.3/licenses/io.burt/jmespath-core-0.6.0/
x apache-jmeter-5.6.3/licenses/io.burt/jmespath-core-0.6.0/LICENSE
x apache-jmeter-5.6.3/licenses/io.burt/jmespath-jackson-0.6.0/
x apache-jmeter-5.6.3/licenses/io.burt/jmespath-jackson-0.6.0/LICENSE
x apache-jmeter-5.6.3/licenses/com.helger.commons/
x apache-jmeter-5.6.3/licenses/com.helger.commons/ph-commons-10.2.5/
x apache-jmeter-5.6.3/licenses/com.helger.commons/ph-commons-10.2.5/LICENSE
x apache-jmeter-5.6.3/licenses/com.helger.commons/ph-commons-10.2.5/NOTICE
x apache-jmeter-5.6.3/licenses/flot.tooltip/
x apache-jmeter-5.6.3/licenses/flot.tooltip/flot.tooltip-0.8.4/
x apache-jmeter-5.6.3/licenses/flot.tooltip/flot.tooltip-0.8.4/LICENSE
x apache-jmeter-5.6.3/licenses/com.thoughtworks.xstream/
x apache-jmeter-5.6.3/licenses/com.thoughtworks.xstream/xstream-1.4.20/
x apache-jmeter-5.6.3/licenses/com.thoughtworks.xstream/xstream-1.4.20/LICENSE
x apache-jmeter-5.6.3/licenses/io.github.x-stream/
x apache-jmeter-5.6.3/licenses/io.github.x-stream/txp-1.2.2/
x apache-jmeter-5.6.3/licenses/io.github.x-stream/txp-1.2.2/META-INF/
x apache-jmeter-5.6.3/licenses/org.mozilla/
x apache-jmeter-5.6.3/licenses/org.mozilla/rhino-1.7.14/
x apache-jmeter-5.6.3/licenses/org.mozilla/rhino-1.7.14/META-INF/
x apache-jmeter-5.6.3/licenses/org.mozilla/rhino-1.7.14/META-INF/NOTICE.txt
x apache-jmeter-5.6.3/licenses/org.mozilla/rhino-1.7.14/META-INF/NOTICE-tools.txt
x apache-jmeter-5.6.3/licenses/datatables-responsive/
x apache-jmeter-5.6.3/licenses/datatables-responsive/datatables-responsive-1.0.5/
x apache-jmeter-5.6.3/licenses/datatables-responsive/datatables-responsive-1.0.5/LICENSE
x apache-jmeter-5.6.3/licenses/org.brotli/
x apache-jmeter-5.6.3/licenses/org.brotli/dec-0.1.2/
x apache-jmeter-5.6.3/licenses/org.brotli/dec-0.1.2/LICENSE
x apache-jmeter-5.6.3/licenses/jquery/
x apache-jmeter-5.6.3/licenses/jquery/jquery-2.1.3/
x apache-jmeter-5.6.3/licenses/jquery/jquery-2.1.3/LICENSE
x apache-jmeter-5.6.3/licenses/dnsjava/
x apache-jmeter-5.6.3/licenses/dnsjava/dnsjava-2.1.9/
x apache-jmeter-5.6.3/licenses/dnsjava/dnsjava-2.1.9/LICENSE
```







