CLAIMS

1. A method for automated generation of parameter testing requests for a software application under test comprising:

receiving a non-proto test input;

identifying a plurality of parameter testing fields in the test input;

slicing the test input into a plurality of testing slices based on the plurality of parameter testing fields;

generating a parameter testing request for each slice of the plurality of testing slices; and

generating a combination of parameter testing requests from the parameter testing request for each slice of the plurality of testing slices;

wherein the step of generating a parameter testing request includes concatenating all permutations of each slice of the plurality of testing slices.

2. The method of claim 1, wherein each slice of the plurality of testing slices corresponds to a corresponding parameter testing field of the plurality of parameter testing fields.

3. The method of claim 2, further comprising:

generating the parameter testing request for each slice of the plurality of testing slices based on the corresponding parameter testing field of the plurality of parameter testing fields.

4. The method of any of claims 1-3, further comprising identifying the plurality of parameter testing fields in the test input by permutation of an index field of a parameter testing field in the plurality of parameter testing fields.

5. The method of any of claims 1-3, wherein the non-proto test input has an unknown request structure which is not predefined in a software library.

6. The method of any one of claims 1-5, wherein the software application is written in Golang.

7. The method of any of claims 1-6, further comprising generating a plurality of test cases from the combination of parameter testing requests.

8. The method of claim 7, further comprising:

using the plurality of test cases for API testing of the software application under test.

9. The method of claim 8, further comprising:

receiving test result data for the plurality of test cases in a report.

10. The method of claim 9, further comprising:

receiving test result data by writing information about the plurality of test cases into the report.

11. The method of claim 1, further comprising:

identifying a status of each test case of the plurality of test cases from the test result data.

12. The method of claim 1, further comprising:

determining a source of error if the status of a test case of the plurality of test cases indicates a fail status.

13. A server computer comprising a communication interface, a memory and a processing unit configured to perform the method of any one of claims 1 to 12.

14. A computer program element comprising program instructions, which, when executed by one or more processors, cause the one or more processors to perform the method of any one of claims 1 to 12.

15. A computer-readable medium comprising program instructions, which, when executed by one or more processors, cause the one or more processors to perform the method of any one of claims 1 to 12.

16. A device for automated generation of parameter testing requests for a software application under test comprising a processor configured to:

receive a non-proto test input;

identify a plurality of parameter testing fields in the test input;

slice the test input into a plurality of testing slices based on the plurality of parameter testing fields;

generate a parameter testing request for each slice of the plurality of testing slices; and

generate a combination of parameter testing requests from the parameter testing request for each slice of the plurality of testing slices; wherein the generation of a parameter testing request includes the concatenation of all permutations of each slice of the plurality of testing slices.