

SUMMARY

[0004] According to various embodiments disclosed in this application, there is provided methods and apparatuses for locating a code snippet, computer devices, and storage mediums.

[0005] A method for locating a code snippet applied to a code server, the method includes:

[0006] acquiring a source code file to be translated;

[0007] reading a source code directory in the source code file to be translated; the source code directory includes a plurality of initial file names; based on the source code directory, acquiring a file object corresponding to each initial file name, and writing the file object into a file array;

[0008] traversing the file array and, when the file object is an initialization code sub-file, filtering out a sub-file of code to be translated in the initial code sub-file; the sub-file of code to be translated matches a preset language type corresponding to a terminal page display;

[0009] looking up a parser matching the preset language type; and

[0010] parsing the sub-file of code to be translated by the parser to obtain an analysis result file; the analysis result file includes a code snippet to be translated in the sub-file of code to be translated and snippet locating information corresponding to the code snippet to be translated.

[0011] An apparatus for locating a code snippet includes:

[0012] an acquiring module configured to acquire a source code file to be translated;

[0013] a reading module configured to read a source code directory in the source code file to be translated; the source code directory includes a plurality of initial file names;

[0014] a filtering module configured to, based on the source code directory, acquire a file object corresponding to each initial file name, and write the file object into a file array; traverse the file array and, when the file object is an initialization code sub-file, filter out a sub-file of code to be translated in the initial code sub-file; the sub-file of

code to be translated matches a preset language type corresponding to a terminal page display;

[0015] a looking up module configured to look up a parser matching the preset language type; and

[0016] a parsing module configured to parse the sub-file of code to be translated by the parser to obtain an analysis result file; the analysis result file includes a code snippet to be translated in the sub-file of code to be translated and snippet locating information corresponding to the code snippet to be translated.

[0017] A computer device includes a memory and one or more processors, the memory storing computer-readable instructions that, when executed by the one or more processors, causing the one or more processors to perform the following steps:

[0018] acquiring a source code file to be translated;

[0019] reading a source code directory in the source code file to be translated; the source code directory includes a plurality of initial file names; based on the source code directory, acquiring a file object corresponding to each initial file name, and writing the file object into a file array;

[0020] traversing the file array and, when the file object is an initialization code sub-file, filtering out a sub-file of code to be translated in the initial code sub-file; the sub-file of code to be translated matches a preset language type corresponding to a terminal page display;

[0021] looking up a parser matching the preset language type; and

[0022] parsing the sub-file of code to be translated by the parser to obtain an analysis result file; the analysis result file includes a code snippet to be translated in the sub-file of code to be translated and snippet locating information corresponding to the code snippet to be translated.

[0023] One or more non-volatile computer-readable storage medium storing computer-readable instructions that, when executed by one or more processors, causing the one or more processors to perform the following steps:

[0024] acquiring a source code file to be translated;

[0025] reading a source code directory in the source code file to be translated; the

source code directory includes a plurality of initial file names; based on the source code directory, acquiring a file object corresponding to each initial file name, and writing the file object into a file array;

[0026] traversing the file array and, when the file object is an initialization code sub-file, filtering out a sub-file of code to be translated in the initial code sub-file; the sub-file of code to be translated matches a preset language type corresponding to a terminal page display;

[0027] looking up a parser matching the preset language type; and

[0028] parsing the sub-file of code to be translated by the parser to obtain an analysis result file; the analysis result file includes a code snippet to be translated in the sub-file of code to be translated and snippet locating information corresponding to the code snippet to be translated.

[0029] The details of at least an embodiment of the present disclosure will be presented with reference to the following drawings and description. Other characteristic and advantages of the present disclosure will be more apparent from the specification, drawings and claims.

BRIEF DESCRIPTION OF THE DRAWINGS

[0030] To illustrate the technical solutions according to the embodiments of the present disclosure more clearly, the accompanying drawings for describing the embodiments are introduced briefly in the following. Apparently, the accompanying drawings in the following description are only some embodiments of the present disclosure, and persons of ordinary skill in the art can derive other drawings from the accompanying drawings without creative efforts.

[0031] FIG. 1 is a schematic diagram of an application scenario of a method for locating a code snippet according to one or more embodiments.

[0032] FIG. 2 is a schematic flowchart of a method for locating a code snippet according to one or more embodiments.

[0033] FIG. 3 is a schematic flowchart of a method for locating a code snippet according to another embodiment.

CLAIMS

1. A method for locating a code snippet applied to a code server, the method comprising:

- acquiring a source code file to be translated;

- reading a source code directory in the source code file to be translated; the source code directory includes a plurality of initial file names; based on the source code directory, acquiring a file object corresponding to each initial file name, and writing the file object into a file array;

- traversing the file array and, when the file object is an initialization code sub-file, filtering out a sub-file of code to be translated in the initial code sub-file; the sub-file of code to be translated matching a preset language type corresponding to a terminal page display;

- looking up a parser matching the preset language type; and

- parsing the sub-file of code to be translated by the parser to obtain an analysis result file; wherein the analysis result file includes a code snippet to be translated in the sub-file of code to be translated and snippet locating information corresponding to the code snippet to be translated.

2. The method according to claim 1, wherein the traversing the file array and, when the file object is an initialization code sub-file, filtering out a sub-file of code to be translated in the initial code sub-file comprises:

- acquiring regular expressions respectively corresponding to different preset language types;

- traversing the file array, acquiring the initial code sub-file corresponding to each initial file name, and matching each initial code sub-file by the regular expression;

- determining the preset language type matching each initial code sub-file according to the matched regular expression; and

- filtering out the initial code sub-file including any of the preset language types as the sub-file of code to be translated.

3. The method according to claim 1, wherein the parsing the sub-file of code to be translated by the parser to obtain the analysis result file comprises:

- detecting the code snippet to be translated in the sub-file of code to be translated;

- dividing a snippet locating information of the code snippet to be translated in the sub-file of code to be translated; wherein the snippet locating information includes start location information and end location information;

- extracting the code snippet to be translated based on the start location information and the end location information; and

- generating the analysis result file according to the code snippet to be translated, the start location information, and the end location information.

4. The method according to claim 3, wherein the detecting the code snippet to be translated in the sub-file of code to be translated comprises:

- acquiring a template string according to the preset language type corresponding to the terminal page display;

- matching the template string with the sub-file of code to be translated to determine an occupation location information of the template string in the sub-file of code to be translated; and

- determining the code snippet to be translated according to the occupation location information of the template string.

5. The method according to claim 3, wherein after the extracting the code snippet to be translated based on the start location information and the end location information, the method further comprising:

- based on the start location information and the end location information, acquiring a code snippet of a preset character length before and after the code snippet to be translated as a context code snippet;

- parsing the code snippet to be translated with the context code snippet to obtain

a syntax information matching the code snippet to be translated; and

adding the context code snippet and the syntax information to the analysis result file.

6. The method according to any one of claims 1 to 5, wherein after the parsing the sub-file of code to be translated by the parser to obtain the analysis result file, the method further comprising:

generating a plurality of data streams according to the analysis result file; performing condition matching on each analysis result in the analysis result file and looking up a translation server matching each snippet to be translated; a code processor being deployed on the translation server;

sending the plurality of data streams to the translation server in a parallel transmission manner, the translation server performs translation processing on an analysis result in the data stream using the code processor;

receiving a translated code snippet returned by the translation server; and

replacing the respective code snippet to be translated in the sub-file of code to be translated according to the translated code sub-file to obtain the translated code sub-file.

7. An apparatus for locating a code snippet, comprising:

an acquiring module configured to acquire a source code file to be translated;

a reading module configured to read a source code directory in the source code file to be translated; the source code directory comprising a plurality of initial file names;

a filtering module configured to, based on the source code directory, acquire a file object corresponding to each initial file name, and write the file object into a file array; traverse the file array and, when the file object is an initialization code sub-file, filter out a sub-file of code to be translated in the initial code sub-file; the sub-file of code to be translated matching a preset language type corresponding to a terminal page display;

a looking up module configured to look up a parser matching the preset language type; and

a parsing module configured to parse the sub-file of code to be translated by the parser to obtain an analysis result file; wherein the analysis result file includes a code snippet to be translated in the sub-file of code to be translated and snippet locating information corresponding to the code snippet to be translated.

8. The apparatus according to claim 7, wherein the filtering module is further configured to acquire regular expressions respectively corresponding to different preset language types; traverse the file array, acquire the initial code sub-file corresponding to each initial file name, and match each initial code sub-file by the regular expression; determine the preset language type matching each initial code sub-file according to the matched regular expression; and filter out the initial code sub-file including any of the preset language types as the sub-file of code to be translated.

9. The apparatus of claim 7, wherein the parsing module is further configured to detect the code snippet to be translated in the sub-file of code to be translated; divide a snippet locating information of the code snippet to be translated in the sub-file of code to be translated; wherein the snippet locating information includes start location information and end location information; extract the code snippet to be translated based on the start location information and the end location information; and generate the analysis result file according to the code snippet to be translated, the start location information, and the end location information.

10. The apparatus according to any one of claims 7 to 9, wherein the apparatus further comprises a translation module configured to generate a plurality of data streams according to the analysis result file; perform condition matching on each analysis result in the analysis result file and looking up a translation server matching each snippet to be translated; a code processor being deployed on the translation server;

send the plurality of data streams to the translation server in a parallel transmission manner, the translation server performs translation processing on an analysis result in the data stream using the code processor; receive a translated code snippet returned by the translation server; and replace the respective code snippet to be translated in the sub-file of code to be translated according to the translated code sub-file to obtain the translated code sub-file.

11. A computer device comprising a memory and one or more processors, the memory storing computer-readable instructions that, when executed by the one or more processors, causing the one or more processors to perform the following steps:

- acquiring a source code file to be translated;

- reading a source code directory in the source code file to be translated; the source code directory includes a plurality of initial file names; based on the source code directory, acquiring a file object corresponding to each initial file name, and writing the file object into a file array;

- traversing the file array and, when the file object is an initialization code sub-file, filtering out a sub-file of code to be translated in the initial code sub-file; the sub-file of code to be translated matching a preset language type corresponding to a terminal page display;

- looking up a parser matching the preset language type; and

- parsing the sub-file of code to be translated by the parser to obtain an analysis result file; wherein the analysis result file includes a code snippet to be translated in the sub-file of code to be translated and snippet locating information corresponding to the code snippet to be translated.

12. The computer device of claim 11, wherein when the computer-readable instructions are executed by one or more processors, further causes the one or more processors to perform the following steps:

- acquiring regular expressions respectively corresponding to different preset language types;

traversing the file array, acquiring the initial code sub-file corresponding to each initial file name, and matching each initial code sub-file by the regular expression;

determining the preset language type matching each initial code sub-file according to the matched regular expression; and

filtering out the initial code sub-file including any of the preset language types as the sub-file of code to be translated.

13. The computer device of claim 11, wherein when the computer-readable instructions are executed by one or more processors, further causes the one or more processors to perform the following steps:

detecting the code snippet to be translated in the sub-file of code to be translated;

dividing a snippet locating information of the code snippet to be translated in the sub-file of code to be translated; wherein the snippet locating information includes start location information and end location information;

extracting the code snippet to be translated based on the start location information and the end location information; and

generating the analysis result file according to the code snippet to be translated, the start location information, and the end location information.

14. The computer device of claim 13, wherein when the computer-readable instructions are executed by one or more processors, further causes the one or more processors to perform the following steps:

acquiring a template string according to the preset language type corresponding to the terminal page display;

matching the template string with the sub-file of code to be translated to determine an occupation location information of the template string in the sub-file of code to be translated; and

determining the code snippet to be translated according to the occupation

location information of the template string.

15. The computer device of claim 13, wherein when the computer-readable instructions are executed by one or more processors, further causes the one or more processors to perform the following steps:

- based on the start location information and the end location information, acquiring a code snippet of a preset character length before and after the code snippet to be translated as a context code snippet;

- parsing the code snippet to be translated with the context code snippet to obtain a syntax information matching the code snippet to be translated; and

- adding the context code snippet and the syntax information to the analysis result file.

16. The computer device according to any one of claims 11 to 15, wherein when the computer-readable instructions are executed by one or more processors, further causes the one or more processors to perform the following steps:

- generating a plurality of data streams according to the analysis result file; performing condition matching on each analysis result in the analysis result file and looking up a translation server matching each snippet to be translated; a code processor being deployed on the translation server;

- sending the plurality of data streams to the translation server in a parallel transmission manner, the translation server performs translation processing on an analysis result in the data stream using the code processor;

- receiving a translated code snippet returned by the translation server; and

- replacing the respective code snippet to be translated in the sub-file of code to be translated according to the translated code sub-file to obtain the translated code sub-file.

17. One or more non-volatile computer-readable storage medium storing computer-readable instructions that, when executed by one or more processors,

causing the one or more processors to perform the following steps:

- acquiring a source code file to be translated;

- reading a source code directory in the source code file to be translated; the source code directory includes a plurality of initial file names; based on the source code directory, acquiring a file object corresponding to each initial file name, and writing the file object into a file array;

- traversing the file array and, when the file object is an initialization code sub-file, filtering out a sub-file of code to be translated in the initial code sub-file; the sub-file of code to be translated matching a preset language type corresponding to a terminal page display;

- looking up a parser matching the preset language type; and

- parsing the sub-file of code to be translated by the parser to obtain an analysis result file; wherein the analysis result file includes a code snippet to be translated in the sub-file of code to be translated and snippet locating information corresponding to the code snippet to be translated.

18. The computer readable storage medium of claim 17, wherein when the computer-readable instructions are executed by one or more processors, further causes the one or more processors to perform the following steps:

- acquiring regular expressions respectively corresponding to different preset language types;

- traversing the file array, acquiring the initial code sub-file corresponding to each initial file name, and matching each initial code sub-file by the regular expression;

- determining the preset language type matching each initial code sub-file according to the matched regular expression; and

- filtering out the initial code sub-file including any of the preset language types as the sub-file of code to be translated.

19. The computer readable storage medium of claim 17, wherein when the

computer-readable instructions are executed by one or more processors, further causes the one or more processors to perform the following steps:

- detecting the code snippet to be translated in the sub-file of code to be translated;

- dividing a snippet locating information of the code snippet to be translated in the sub-file of code to be translated; wherein the snippet locating information includes start location information and end location information;

- extracting the code snippet to be translated based on the start location information and the end location information; and

- generating the analysis result file according to the code snippet to be translated, the start location information, and the end location information.

20. The computer readable storage medium according to any one of claims 17 to 19, wherein when the computer-readable instructions are executed by one or more processors, further causes the one or more processors to perform the following steps:

- generating a plurality of data streams according to the analysis result file; performing condition matching on each analysis result in the analysis result file and looking up a translation server matching each snippet to be translated; a code processor being deployed on the translation server;

- sending the plurality of data streams to the translation server in a parallel transmission manner, the translation server performs translation processing on an analysis result in the data stream using the code processor;

- receiving a translated code snippet returned by the translation server; and

- replacing the respective code snippet to be translated in the sub-file of code to be translated according to the translated code sub-file to obtain the translated code sub-file.