

What is claimed is:

1. A method for searching and presenting data, comprising:
receiving a search query at a computer having a processor;
comparing, by the processor, the query against one or more data repositories for data
5 related to the query, wherein the comparing step includes analyzing the query for an exact or
approximate match to one or more entries in a code set; and
serving one or more exact or approximate matches to a user;
wherein the code set is stored in a database; and
wherein the processor is a 64 bit processor.
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2. The method for searching and presenting data of claim 1, wherein the receiving and
serving steps are implemented using a raw TCP/IP socket on the computer.
3. The method for search and presenting data of claim 1, where the database is an in
15 memory database.
4. The method for searching and presenting data of claim 3, wherein the in memory
database also stores a set of mappings between the code set and another code set.
- 20 5. The method for searching and presenting data of claim 4, the method further
comprising:
serving, to the user, mappings corresponding to the one or more or exact or
approximate matches.
- 25 6. The method for searching and presenting data of claim 1, further comprising:
storing additional data;
tagging the data with one or more codes in the code set;
identifying data tagged with the one or more exact or approximate matches; and
serving at least some of the identified data to the user.
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7. The method for searching and presenting data of claim 1,
wherein the code set includes at least one domain, a plurality of concepts within the at
least one domain, and a plurality of descriptions also within the at least one domain, and

wherein a description is an alternative way to express a concept.

8. The method for searching and presenting data of claim 7, wherein the serving step
includes serving descriptions corresponding to the one or more exact or approximate
5 matches.

9. The method for searching and presenting data of claim 7,
wherein the database also stores a set of mappings between the code set and another
code set; and

- 10 wherein mappings are made between concepts in the code set and entries in the other
code set.

10. A The method for searching and presenting data of claim 6,
wherein the serving step further comprises presenting the at least some of the
15 identified data be in a machine-readable file format.

What is claimed is:

1. A method for searching and presenting data, comprising:
receiving a search query at a computer having a processor;
comparing, by the processor, the query against one or more data repositories for
5 data related to the query, wherein the comparing step includes analyzing the query for an
exact or approximate match to one or more entries in a code set; and
serving one or more exact or approximate matches to a user;
wherein the code set is stored in a database;
wherein the code set includes at least one domain, a plurality of concepts within the
10 at least one domain, and a plurality of descriptions also within the at least one domain;
wherein a description is an alternative way to express a concept; and
wherein the processor is a 64 bit processor.
2. The method for searching and presenting data of claim 1, wherein the receiving and
15 serving steps are implemented using a raw TCP/IP socket on the computer.
3. The method for search and presenting data of claim 1, where the database is an in
memory database.
- 20 4. The method for searching and presenting data of claim 3, wherein the in memory
database also stores a set of mappings between the code set and another code set.
5. The method for searching and presenting data of claim 4, the method further
comprising: serving, to the user, mappings corresponding to the one or more or exact or
25 approximate matches.
6. The method for searching and presenting data of claim 1, further comprising:
storing additional data;
tagging the data with one or more codes in the code set;
30 identifying data tagged with the one or more exact or approximate matches; and
serving at least some of the identified data to the user.

7. The method for searching and presenting data of claim 1, wherein the serving step includes serving descriptions corresponding to the one or more exact or approximate matches.
- 5 8. The method for searching and presenting data of claim 1, wherein the database also stores a set of mappings between the code set and another code set; and
wherein mappings are made between concepts in the code set and entries in the other code set.
- 10 9. The method for searching and presenting data of claim 1, further comprising:
pushing time deferred tasks to a queuing service;
wherein the comparing step is performed by a search service, and
wherein the time deferred tasks are not performed by the search service.
- 15 10. The method for searching and presenting data of claim 9, further comprising:
receiving and processing, by a messaging service, the time deferred tasks from the queuing service.
11. A system for searching and presenting data, comprising;
20 a server having one or more processors, wherein each processor has a 64-bit wide register;
one or more communication connectivity means on the server configured to receive search queries and serve search results;
a database storing a code set; and
25 a search service configured to analyze the search queries, compare the search queries against the code set, and serve exact or approximate matches to machines that originated the search queries;
wherein the code set includes at least one domain, a plurality of concepts within the at least one domain, and a plurality of descriptions also within the at least one domain,
30 wherein a description is an alternative way to express a concept.

12. The system for searching and presenting data of claim 11, wherein the database is an in memory database.

13. The system for searching and presenting data of claim 11, wherein the
5 communication connectivity means are TCP/IP sockets or WCF connections.

14. The system for searching and presenting data of claim 11, wherein the search service is configured to serve results in a machine-readable file format.

10 15. The system for searching and presenting data of claim 14, wherein the file format is XML or JSON.

16. The system for searching and presenting data of claim 11, wherein the database also is configured to store mappings between the code set and another code set.

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17. The system for searching and presenting data of claim 16,
wherein mappings are made between concepts in the code set and entries in the other code set.

20 18. The system for searching and presenting data of claim 11,
wherein the database is configured to store additional data, the additional data tagged with one or more codes in the code set;

wherein the system is configured, in response to a search request, to identify data tagged with the one or more exact or approximate matches and to serve at least some of the
25 identified data to the user.

19. The system for searching and presenting data of claim 11, further comprising:
a plurality of servers configured to receive search queries and return search results,
wherein the system is configured to direct a user's query to the server closest
30 geographically to the user's computer and to redirect the query to another server if that server has insufficient resources to fulfill the query promptly.

20. The system for searching and presenting data of claim 11, further comprising:
a queuing service; and
a messaging service;
wherein the system is configured to push time deferred tasks to the queuing service;
5 wherein the messaging service configured to receive the time deferred tasks from
the queuing service and to processing the time deferred tasks; and
wherein the search service is configured to not process the time deferred tasks.
21. A method for searching and presenting data, comprising:
10 receiving a search query at a computer having a processor;
comparing, by the processor, the query against one or more data repositories for
data related to the query, wherein the comparing step includes analyzing the query for an
exact or approximate match to one or more entries in a code set;
serving one or more exact or approximate matches to a user;
15 storing additional data;
tagging the data with one or more codes in the code set;
identifying data tagged with the one or more exact or approximate matches; and
serving at least some of the identified data to the user;
wherein the code set is stored in a database; and
20 wherein the processor is a 64 bit processor.
22. A system for searching and presenting data, comprising;
a server having one or more processors, wherein each processor has a 64-bit wide
register;
25 one or more communication connectivity means on the server configured to receive
search queries and serve search results;
a database storing a code set; and
a search service configured to analyze the search queries, compare the search
queries against the code set, and serve exact or approximate matches to machines that
30 originated the search queries; wherein the database is configured to store additional data,
the additional data tagged with one or more codes in the code set;

wherein the system is configured, in response to a search request, to identify data tagged with the one or more exact or approximate matches and to serve at least some of the identified data to the user