CLAIMS:

1. A computer-implemented method for managing user interactions with a blockchain, implemented by a console for managing user interactions with a plurality of blockchains comprising a command line interface (CLI), a command manager, a plurality of command plug-ins, and a plurality of software development kits (SDKs) respectively corresponding to the plurality of blockchains, the method comprising:

receiving a user input in the CLI, wherein the user input comprises a reference to one or more configurations and a reference to one of the plurality of blockchains;

determining, by the command manager based on the user input, a blockchain-related operation and a command plug-in of the plurality of command plug-ins associated with the blockchain-related operation;

generating, by the determined command plug-in, a command based on the determined operation and the one or more configurations;

selecting, based on the reference to the one of the plurality of blockchains, an SDK corresponding to the one of the blockchains from the plurality of SDKs respectively corresponding to the plurality of blockchains; and

sending, by the selected SDK, the command to one or more nodes associated with the blockchain.

2. The method of claim 1, further comprising:

obtaining, by the selected SDK, an output in response to the command from the blockchain; and

providing the output in the CLI.

3. The method of any preceding claim, further comprising, before the receiving a user input, initializing the console, and wherein the initializing comprises:

starting the mainframe associated with the console;

generating, by the mainframe, an instance of the CLI;

initializing, by the CLI, one or more of the SDKs;

calling, by the CLI, the command manager; and

loading, by the command manager, the command plug-ins for registration into the instance of the CLI.

4. The method of claim 3, wherein the console further comprises a tool manager configured to:

calculate a hash value;

calculate a digital signature; or

verify a blockchain transaction.

5. The method of any preceding claim, wherein the CLI is configured to:

pre-process the user input;

provide a historical record of user inputs; or

provide a recommended command.

6. The method of any preceding claim, wherein:

the command manager is configured to register or remove one or more commands.

7. The method of claim 6, wherein:

the command manager is configured to provide, in the CLI, a list of registered commands and information about the registered commands.

8. The method of any preceding claim, wherein the command plug-in comprises:

a transaction plug-in;

a block plug-in; or

an event plug-in.

9. The method of claim 8, wherein the transaction plug-in is configured to generate:

a command for adding a blockchain transaction to the blockchain;

a command for querying for information about one or more blockchain transactions associated with the blockchain; or

a command for querying for information about one or more accounts associated with the blockchain.

10. The method of any of claims 8 and 9, wherein the block plug-in is configured to generate:

a command for querying for information about a block associated with the blockchain; or

a command for querying for information about a block header associated with the blockchain.

11. The method of any of claims 8 to 10, wherein the event plug-in is configured to generate:

a command for subscribing to events related to a blockchain contract associated with the blockchain;

a command for subscribing to events related to a block associated with the blockchain;

a command for subscribing to events related to an account associated with the blockchain; or

a command for subscribing to events related to a topic associated with the blockchain.

12. The method of any preceding claim, wherein:

the blockchain is a consortium blockchain.

13. A system for managing user interactions with a blockchain, comprising:

one or more processors; and

one or more computer-readable memories coupled to the one or more processors and having instructions stored thereon that are executable by the one or more processors to perform the method of any of claims 1 to 12.

14. An apparatus for managing user interactions with a blockchain, the apparatus comprising a plurality of modules for performing the method of any of claims 1 to 12.

15. A non-transitory computer-readable medium having stored therein instructions that, when executed by a processor of a device, cause the device to perform the method of any of claims 1 to 12.