

SDKs and APIs of remote services. Subsequently, any programs using multiple services require a large code base and accompanying SDKs and occupy a large amount of memory even if only a fraction of the offered functionalities are used.

[0004] Thus, there is a need in the art for generating a custom SDK containing select functionality.

SUMMARY OF THE INVENTION

[0005] Embodiments of the present invention generally relate to a method, apparatus, and system for code virtualization with a customized SDK. Specifically, by utilizing a pre-generated code library, customized SDK, and snippet generator located on a remote server, a program on a user device leverages multiple services across multiple platforms and programming languages with minimal memory storage space. The user device stores a customized SDK that contains only the code required for processes selected by the user. The user device receives a code snippet and/or customized SDK so as to execute at least one remote process call on the remote server, and also in turn deploy the process in the native language of a target device (e.g., a different remote server) substantially as shown in and/or described in connection with at least one of the figures, as set forth more completely in the claims.

[0005a] According to a first aspect of the present invention, there is provided a method operative to generate a customized software development kit (SDK) in a virtual code provider (VCP) comprising: analyzing a plurality of process code corresponding to a plurality of predefined functions offered by at least one classical service component (CSC); retrieving native SDKs for each function of the plurality of functions; receiving a selection of at least two functions among the plurality of predefined functions; parsing SDK code from the native SDKs for the at least two selected functions; linking the parsed SDK code; and storing the linked parsed SDK code as a custom SDK.

[0005b] According to a second aspect of the present invention, there is provided a method operative to access a customized software development kit (SDK) in a virtual code provider (VCP) comprising: receiving a custom SDK from the VCP; installing the custom SDK from the VCP on a user device in a local development

environment; executing a program with process calls to the custom SDK executing functions corresponding to the process calls as offered by the VCP; and deploying functions from the VCP onto classical services components (CSCs) associated with the functions.

[0005c] According to a third aspect of the present invention, there is provided a system for remote process call generation comprising: at least one processor; at least one input device coupled to at least one network; and at least one storage device storing processor executable instructions which, when executed by the at least one processor, performs the above method.

[0006] These and other features and advantages of the present disclosure may be appreciated from a review of the following detailed description of the present disclosure, along with the accompanying figures in which like reference numerals refer to like parts throughout.

BRIEF DESCRIPTION OF THE DRAWINGS

[0007] So that the manner in which the above recited features of the present invention can be understood in detail, a more particular description of the invention, briefly summarized above, may be had by reference to embodiments, some of which are illustrated in the appended drawings. It is to be noted, however, that the appended drawings illustrate only typical embodiments of this invention and are therefore not to be considered limiting of its scope, for the invention may admit to other equally effective embodiments.