or API to implement processes offered by the service. For example, TWEETING on TWITTER requires a different code base than for posting a picture on TUMBLR. Using these services also may not be conveniently shown until after applications are deployed on the service, which also may have irreparable results. In other words, programming across multiple platforms, languages, and services remains exceedingly complex to learn in combination with understanding accompanying SDKs and APIs of remote services.

[0005] Thus, there is a need in the art for an integrating a local and remote programming environment.

SUMMARY OF THE INVENTION

[0006] Embodiments of the present invention generally relate to a method, apparatus, and system for code virtualization and remote process call generation. Specifically, by utilizing a pre-generated code library, virtualized SDK, and snippet generator located on a remote server, a program on a user device leverages multiple services across multiple platforms and programming languages. The user device receives a code snippet and/or virtualized 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 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.

[0006a] According to a first aspect of the present invention, there is provided a method for code virtualization on a user device comprising: selecting a remote process on a remote server, the remote process correlated to at least one remote service; receiving from at least one virtual code provider (VCP) on the remote server, a code snippet with parameters from pre-defined fields to call the remote process; installing a software development kit (SDK) downloaded from the remote server, onto the user device; inserting the code snippet based on the SDK into a local code base on the user device; and inserting parameter values into the code

snippet and deploying the code snippet such that the code snippet calls the remote process with the SDK from the user device.

[0006b] According to a second aspect of the present invention, there is provided a system for remote process call virtualization on a user device 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 a method including: selecting a remote process on a remote server, the remote process correlated to at least one remote service; receiving from at least one virtual code provider (VCP) on the remote server, a code snippet with parameters from pre-defined fields to call the remote process; installing a software development kit (SDK) downloaded from the remote server, onto the user device; inserting the code snippet based on the SDK into a local code base on the user device; and inserting parameter values into the code snippet and deploying the code snippet such that the code snippet calls the remote process with the SDK from the user device.

[0007] 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

[0008] 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,