Invideous Roku Library

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# Classes

## inv\_Platform

### Attributes

#### video

|  |  |
| --- | --- |
| video as object | |
| **Scope** | instance |
| **Type** | inv\_Video |
| **Description** | A reference to current playing video. |

#### user

|  |  |
| --- | --- |
| user as object | |
| **Scope** | instance |
| **Type** | inv\_User |
| **Description** | A reference to currently logged-in platform user. |

#### refferer

|  |  |
| --- | --- |
| refferer as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Used by the platform api calls. Need to be set by developer at start of the application. |

### Methods

#### inv\_Platform\_Get

|  |  |
| --- | --- |
| *function inv\_Platform\_Get() as object* | |
| **Scope** | static |
| **Parameters** | none |
| **Return type** | inv\_Platform associative array. |
| **Description** | Returns a global inv\_Platform instance that holds application’s session with the platform. |

#### inv\_Platform\_ LoginAsNewGuest

|  |  |
| --- | --- |
| *function inv\_Platform\_ LoginAsNewGuest() as boolean* | |
| **Scope** | instance |
| **Instance method name** | LoginAsNewGuest |
| **Parameters** | none |
| **Return type** | boolean |
| **Description** | Tries to create a new guest account at the platform. If account has been created successfully, the method returns true, member variable user holds newly created guest account and the session is saved in registry. Otherwise it returns false and member variable user holds an invalid value. |

#### inv\_Platform\_ LoginSavedUser

|  |  |
| --- | --- |
| *function inv\_Platform\_ LoginSavedUser() as boolean* | |
| **Scope** | instance |
| **Instance method name** | LoginSavedUser |
| **Parameters** | none |
| **Return type** | boolean |
| **Description** | Logs-in current user from saved session. If user has been logged-in successfully, the method returns true, member variable user holds newly logged-in user account. Otherwise it returns false and member variable user holds an invalid value. If there is currently logged-in user method returns true without updating user info. If there is no session saved in registry, this method returns false. |

#### inv\_Platform\_LogOutUser

|  |  |
| --- | --- |
| *function inv\_Platform\_ LogOutUser() as void* | |
| **Scope** | instance |
| **Instance method name** | LogOutUser |
| **Parameters** | none |
| **Return type** | void |
| **Description** | Logs-out currently logged-in user, and clears the saved session. |

#### inv\_Platform\_OnVideoStart

|  |  |
| --- | --- |
| *function inv\_Platform\_OnVideoStart(invVideo as object) as boolean* | |
| **Scope** | Instance |
| **Instance method** | OnVideoStart |
| **Parameters** | |  |  | | --- | --- | | *invVideo* | | | **Type** | inv\_Video | | **Description** | video that is going to be played. | |
| **Return type** | boolean |
| **Description** | This method must be called before video is being played. The method initializes all video applications added by the publisher to the video and keeps a reference to it in video attribute. On successful initialization of all video applications method returns true and video can be played, otherwise returned value is false and video should not be played. |

#### inv\_Platform\_OnVideoProgress

|  |  |
| --- | --- |
| *function inv\_Platform\_OnVideoProgress(videoPlayer as object, videoProgress as integer) as boolean* | |
| **Scope** | instance |
| **Instance method name** | OnVideoProgress |
| **Parameters** | |  |  | | --- | --- | | *videoPlayer* | | | **Type** | roVideoScreen | | **Description** | Roku video screen object that is playing the video. | |
| **Return type** | boolean |
| **Description** | This method must be called on video progress for updating video applications. On successful update of all video applications this method returns true and video can continue with playing, otherwise returned value is false and video should be stopped. |

#### inv\_Platform\_OnVideoStop

|  |  |
| --- | --- |
| *function inv\_Platform\_OnVideoStop() as void* | |
| **Scope** | Instance |
| **Instance method name** | OnVideoStop |
| **Parameters** | none |
| **Return type** | void |
| **Description** | This method must be called when video has finished with playing, to clean up resources and stop video applications. |

## inv\_Application

### Attributes

### Methods

#### inv\_NewApplication

|  |  |
| --- | --- |
| *function inv\_NewApplication(applicationData as object) as object* | |
| **Scope** | static |
| **Parameters** | |  |  | | --- | --- | | *applicationData* | | | **Type** | roAssociativeArray | | **Description** | json associative array of video application data. | |
| **Return type** | Associative array for video application. |
| **Description** | Creates a video application of type depending on applicationData. All video applications must implement following instance methods:   * function Start() as boolean * function Update(videoPlayer as object, videoProgress as object) as boolean * function Stop() as void |

## inv\_Video

### Attributes

#### id

|  |  |
| --- | --- |
| id as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Video’s id at the platform side. |

#### source\_url

|  |  |
| --- | --- |
| source\_url as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Video’s source url. |

#### title

|  |  |
| --- | --- |
| title as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Video’s title. |

#### ovp\_name

|  |  |
| --- | --- |
| ovp\_name as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Video’s online video platform name. |

#### brightcove

|  |  |
| --- | --- |
| brightcove as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Whether the video is from Brightcove OVP.  Possible values:  0: it is not Brightcove video;  1: it is Brightcove video; |

#### bc\_video\_id

|  |  |
| --- | --- |
| bc\_video\_id as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | If video is Brightcove video, this attribute identifies it at Brightcove OVP. |

#### publisher

|  |  |
| --- | --- |
| publisher as object | |
| **Scope** | instance |
| **Type** | Inv\_Publisher |
| **Description** | Video’s publisher. |

#### is\_paid

|  |  |
| --- | --- |
| is\_paid as boolean | |
| **Scope** | instance |
| **Type** | boolean |
| **Description** | Whether video is paid. |

#### applications

|  |  |
| --- | --- |
| applications as object | |
| **Scope** | instance |
| **Type** | roArray |
| **Description** | Array of all applications for this video. |

### Methods

#### inv\_NewVideo

|  |  |
| --- | --- |
| *function inv\_NewVideo(videoDetails as object) as object* | |
| **Scope** | static |
| **Parameters** | |  |  | | --- | --- | | *videoDetails* | | | **Type** | roAssociativeArray | | **Description** | json associative array returned by platform’s api call get\_video\_details. | |
| **Return type** | inv\_Video |
| **Description** | Creates a new inv\_Video from a json result of get\_video\_details platform’s api call. |

#### inv\_Video\_GetDetails

|  |  |
| --- | --- |
| *function inv\_Video\_GetDetails(videoId as string, invUser=invalid as object, ovpVideoType="bc\_video\_id" as string) as object* | |
| **Scope** | static |
| **Parameters** | |  |  | | --- | --- | | *videoId* | | | **Type** | string | | **Description** | Id of video to get details for. | | *invUser* | | | **Type** | inv\_User | | **Description** | User to get video details for. | | *ovpVideoType* | | | **Type** | Type of video\_id parameter. Can be:   * bc\_video\_id (default); * unicorn\_video\_id; * video\_id; | | **Description** | User to get video details for. | |
| **Return type** | inv\_Video |
| **Description** | Retrieves video details for a given video id and user. It performs platform’s get\_video\_details call, and on success returns inv\_Video otherwise null (invalid). |

#### inv\_Video\_UpdateIsPaid

|  |  |
| --- | --- |
| *function inv\_Video\_UpdateIsPaid(invUser as object) as boolean* | |
| **Scope** | instance |
| **Parameters** | |  |  | | --- | --- | | *invUser* | | | **Type** | string | | **Description** | User to update video’s is\_paid attribute for. | |
| **Return type** | boolean |
| **Description** | Updates video’s is\_paid for a given user. It performs platforms’s get\_video\_details call, on success updates is\_paid attribute only and returns true, otherwise returns false. |

## inv\_User

### Attributes

#### logged\_in

|  |  |
| --- | --- |
| logged\_in as boolean | |
| **Scope** | instance |
| **Type** | boolean |
| **Description** | Whether the user is logged-in |

#### username

|  |  |
| --- | --- |
| username as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | User’s username |

#### session\_id

|  |  |
| --- | --- |
| session\_id as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | User’s session\_id returned by platform api |

#### random

|  |  |
| --- | --- |
| random as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | User’s random returned by platform api |

#### checksum

|  |  |
| --- | --- |
| checksum as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | User’s checksum returned by platform api |

#### user\_id

|  |  |
| --- | --- |
| user\_id as integer | |
| **Scope** | instance |
| **Type** | integer |
| **Description** | User’s user\_id number returned by platform api |

#### guest

|  |  |
| --- | --- |
| guest as boolean | |
| **Scope** | instance |
| **Type** | boolean |
| **Description** | Whether the user is guest user |

#### fullname

|  |  |
| --- | --- |
| fullname as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | User’s fullname |

#### email

|  |  |
| --- | --- |
| email as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | User’s email |

#### balance

|  |  |
| --- | --- |
| balance as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | User’s balance |

#### system\_balance

|  |  |
| --- | --- |
| system\_balance as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | User’s system balance |

#### country\_code

|  |  |
| --- | --- |
| country\_code as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | User’s country code |

#### saved\_cards

|  |  |
| --- | --- |
| saved\_cards as object | |
| **Scope** | instance |
| **Type** | roArray of user saved credit or debit card |
| **Description** | User’s saved cards |

### Methods

#### inv\_NewUser

|  |  |
| --- | --- |
| *function inv\_NewUser() as object* | |
| **Scope** | static |
| **Parameters** | none |
| **Return type** | inv\_User |
| **Description** | Creates a new inv\_User object |

#### inv\_User\_InitFromJSON

|  |  |
| --- | --- |
| *function inv\_User\_InitFromJSON(jsonResponse as object) as object* | |
| **Scope** | instance |
| **Instance method name** | InitFromJSON |
| **Parameters** | |  |  | | --- | --- | | *jsonResponse* | | | **Type** | roAssociativeArray | | **Description** | json associative array returned by platform’s api call like getuserinfo. | |
| **Return type** | roAssociativeArray: {  result as boolean,  message as string  } |
| **Description** | Fills in this inv\_User object from json associative array returned by platform’s api call like getuserinfo, and returns true on success, otherwise false. |

#### inv\_User\_Register

|  |  |
| --- | --- |
| *function inv\_User\_Register(fullname as string, email as string, username as string, password as string, repassword as string) as object* | |
| **Scope** | instance |
| **Instance method name** | Register |
| **Parameters** | |  |  | | --- | --- | | *fullname* | | | **Type** | string | | **Description** | User’s fullname | | *email* | | | **Type** | string | | **Description** | User’s email | | *username* | | | **Type** | string | | **Description** | User’s username | | *password* | | | **Type** | string | | **Description** | User’s password | | *repassword* | | | **Type** | string | | **Description** | User’s password retyped | |
| **Return type** | roAssociativeArray: {  result as boolean,  message as string  } |
| **Description** | Registers a new user at the platform with given user details.  If user is already logged-in result is false, otherwise result is a value returned from a call to inv\_User\_InitFromJSON. |

#### inv\_User\_Login

|  |  |
| --- | --- |
| *function inv\_User\_Login(username as string, password as string) as object* | |
| **Scope** | instance |
| **Instance method name** | Login |
| **Parameters** | |  |  | | --- | --- | | *username* | | | **Type** | string | | **Description** | User’s username | | *password* | | | **Type** | string | | **Description** | User’s password | |
| **Return type** | roAssociativeArray: {  result as boolean,  message as string  } |
| **Description** | Logs-in a user at the platform with a given username and password.  If user is already logged-in then result is false, otherwise result is a value returned from a call to inv\_User\_InitFromJSON. |

#### inv\_User\_UpdateInfo

|  |  |
| --- | --- |
| *function inv\_User\_UpdateInfo() as boolean* | |
| **Scope** | instance |
| **Instance method name** | UpdateInfo |
| **Parameters** | none |
| **Return type** | roAssociativeArray: {  result as boolean,  message as string  } |
| **Description** | Updates user info of already logged-in user.  If user is not already logged-in then result is false, otherwise result is a value returned from a call to inv\_User\_InitFromJSON. |

#### inv\_User\_GetInfo

|  |  |
| --- | --- |
| *function inv\_User\_GetInfo(session\_id=invalid as string) as boolean* | |
| **Scope** | instance |
| **Instance method name** | GetInfo |
| **Parameters** | |  |  | | --- | --- | | *session\_id* | | | **Type** | string | | **Description** | Invideous user’s session-id | |
| **Return type** | boolean |
| **Description** | Retrieves user info for a given *session\_id*.  If user is already logged-in then result is false.  *session\_id* can be null (invalid).  If *session\_id* is invalid this method will try to create a guest user account at Invideous platform and on success returns true otherwise false.  If *session\_id* is not null (invalid) the method retrieves user info from Invideous platform for given *session\_id* and on success returns true otherwise false. |

#### inv\_User\_Logout

|  |  |
| --- | --- |
| *function inv\_User\_Logout() as boolean* | |
| **Scope** | instance |
| **Instance method name** | Logout |
| **Parameters** | none |
| **Return type** | boolean |
| **Description** | Logs-out currently logged-in user.  If user is not logged-in returns false.  On successful logout returns true otherwise false. |

#### inv\_User\_GetPurchasedItems

|  |  |
| --- | --- |
| *function inv\_User\_GetPurchasedItems() as object* | |
| **Scope** | instance |
| **Instance method name** | GetPurchasedItems |
| **Parameters** | none |
| **Return type** | json associative array returned by platform’s get\_purchased\_items api call. |
| **Description** | Performs an Invideous platform’s get\_purchased\_items api call and on success returns json array of user’s purchased items otherwise null (invalid). |

#### inv\_User\_GetPaidSubscriptions

|  |  |
| --- | --- |
| *function inv\_User\_GetPaidSubscriptions() as object* | |
| **Scope** | instance |
| **Instance method name** | GetPaidSubscriptions |
| **Parameters** | none |
| **Return type** | json associative array returned by platform’s get\_user\_paid\_subscriptions api call. |
| **Description** | Performs an Invideous platform’s get\_user\_paid\_subscriptions api call and on success returns json array of user’s paid subscriptions otherwise null (invalid). |

#### inv\_User\_GetSubscriptionsWithPublishers

|  |  |
| --- | --- |
| *function inv\_User\_GetPaidSubscriptions() as object* | |
| **Scope** | instance |
| **Instance method name** | GetSubscriptionsWithPublisher |
| **Parameters** | none |
| **Return type** | json associative array returned by platform’s get\_subscriptions\_with\_publishers api call. |
| **Description** | Performs an Invideous platform’s get\_subscriptions\_with\_publishers api call and on success returns json array of user’s subscriptions with publishers otherwise null (invalid). |

#### inv\_User\_ListVideoAccess

|  |  |
| --- | --- |
| *function inv\_User\_ListVideoAccess(publisher="all" as string) as object* | |
| **Scope** | instance |
| **Instance method name** | ListVideoAccess |
| **Parameters** | |  |  | | --- | --- | | *publisher* | | | **Type** | string | | **Description** | which publisher | |
| **Return type** | json associative array returned by platform’s list\_video\_access api call. |
| **Description** | Performs an Invideous platform’s list\_video\_access api call and on success returns json array of user’s accessible videos for a given publisher otherwise null (invalid). |

#### inv\_User\_MakeCardPayment

|  |  |
| --- | --- |
| *function inv\_User\_MakeCardPayment(invItemOrder as object, invCard as object, invRefferer="" as string) as object* | |
| **Scope** | instance |
| **Instance method name** | MakeCardPayment |
| **Parameters** | |  |  | | --- | --- | | *invItemOrder* | | | **Type** | roAssociativeArray: {  id as string,  item\_type as string  } | | **Description** | item to pay | | *invCard* | | | **Type** | inv\_CardInfo | | **Description** | Card to pay with | | *invRefferer* | | | **Type** | string | | **Description** | refferer | |
| **Return type** | roAssociativeArray: {  result as integer,  message as string,  details as object  } |
| **Description** | Performs an Invideous platform’s make\_card\_payment call and on success returns result code 0 and details contains json associative array returned by make\_card\_payment platform’s api call, otherwise result code is >0 and details is invalid.  Result codes:   * 100: user is not signed in; * 101: guest’s email is required (for payment as guest); * 102: Invalid arguments (invCard or invItemOrder is invalid); * 103: network error occurred; * 104: platform api call returned error; |

#### inv\_User\_MakeSavedCardPayment

|  |  |
| --- | --- |
| *function inv\_User\_MakeSavedCardPayment(invItemOrder as object, invSavedCard as object, invRefferer="" as string) as object* | |
| **Scope** | instance |
| **Instance method name** | MakeSavedCardPayment |
| **Parameters** | |  |  | | --- | --- | | *invItemOrder* | | | **Type** | roAssociativeArray: {  id as string,  item\_type as string  } | | **Description** | item to pay | | *invSavedCard* | | | **Type** | roAssociativeArray: {  id as string,  card\_number as string  } | | **Description** | Saved card to pay with | | *invRefferer* | | | **Type** | string | | **Description** | refferer | |
| **Return type** | roAssociativeArray: {  result as integer,  message as string,  details as object  } |
| **Description** | Performs an Invideous platform’s make\_card\_payment call and on success returns result code 0 and details contains json associative array returned by make\_card\_payment platform’s api call, otherwise result code is >0 and details is invalid.  Result codes:   * 100: user is not signed in; * 101: guest’s email is required (for payment as guest); * 102: Invalid arguments (invSavedCard or invItemOrder is invalid); * 103: network error occurred; * 104: platform api call returned error; |

#### inv\_User\_SaveSession

|  |  |
| --- | --- |
| *function inv\_User\_SaveSession(session\_id as string) as boolean* | |
| **Scope** | static |
| **Parameters** | |  |  | | --- | --- | | *session\_id* | | | **Type** | rstring | | **Description** | User’s session\_id | |
| **Return type** | boolean |
| **Description** | Saves the user’s session\_id in device registry |

#### inv\_User\_LoadSession

|  |  |
| --- | --- |
| *function inv\_User\_LoadSession() as object* | |
| **Scope** | static |
| **Parameters** | none |
| **Return type** | object |
| **Description** | Loads the user’s session\_id from registry and returns it as string. If there is no session\_id saved in registry returns null (invalid). |

#### inv\_User\_ClearSession

|  |  |
| --- | --- |
| *function inv\_User\_ClearSession() as boolean* | |
| **Scope** | static |
| **Parameters** | none |
| **Return type** | boolean |
| **Description** | Clears the saved user’s session. Currently, it returns always true. |

## Inv\_Publisher

### Attributes

#### id

|  |  |
| --- | --- |
| id as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Publisher’s id. |

#### username

|  |  |
| --- | --- |
| username as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Publisher’s username. |

## inv\_KeyValArray

### Attributes

#### container

|  |  |
| --- | --- |
| container as object | |
| **Scope** | instance |
| **Type** | roArray |
| **Description** | Array of key<->value pairs |

### Methods

#### inv\_NewKeyValArray

|  |  |
| --- | --- |
| *function inv\_NewKeyValArray() as object* | |
| **Scope** | static |
| **Parameters** | none |
| **Return type** | inv\_KeyValArray |
| **Description** | Creates a new inv\_KeyValArray object |

#### inv\_KeyValArray\_Add

|  |  |
| --- | --- |
| *function inv\_KeyValArray\_Add(kvKey as string, kvValue as object) as void* | |
| **Scope** | instance |
| **Instance method name** | Add |
| **Parameters** | |  |  | | --- | --- | | *kvKey* | | | **Type** | string | | **Description** | key-value pair’s key part | | *kvValue* | | | **Type** | string | | **Description** | key-value pair’s value part | |
| **Return type** | Associative array for video application. |
| **Description** | Adds a new key-value pair to the array |

#### inv\_KeyValArray\_Sort

|  |  |
| --- | --- |
| *function inv\_KeyValArray\_SortByKeys() as void* | |
| **Scope** | instance |
| **Instance method name** | Sort |
| **Parameters** | none |
| **Return type** | void |
| **Description** | Sorts the key-value array by key, ascending. |

## inv\_CardInfo

### Attributes

#### is\_debit

|  |  |
| --- | --- |
| is\_debit as boolean | |
| **Scope** | instance |
| **Type** | boolean |
| **Description** | Wheter the card is debit |

#### holders\_name

|  |  |
| --- | --- |
| holders\_name as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Card holders name |

#### number

|  |  |
| --- | --- |
| number as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Card’s number |

#### cvv\_code

|  |  |
| --- | --- |
| cvv\_code as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Card’s CVV code |

#### expiry\_month

|  |  |
| --- | --- |
| expiry\_month as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Card’s expiry month |

#### expiry\_year

|  |  |
| --- | --- |
| expiry\_year as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Card’s expiry year |

#### issuing\_bank

|  |  |
| --- | --- |
| Issuing\_bank as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Card’s issuing bank, relevant only for debit cards (is\_debit is true) |

### Methods

#### inv\_NewCardInfo

|  |  |
| --- | --- |
| *function inv\_NewCardInfo(invIsDebit=false as boolean) as object* | |
| **Scope** | static |
| **Parameters** | |  |  | | --- | --- | | *invIsDebit* | | | **Type** | boolean | | **Description** | Whther to create a new debit or credit card info | |
| **Return type** | inv\_CardInfo |
| **Description** | Creates a new inv\_CardInfo object |

## inv\_Paywall

### Attributes

#### id

|  |  |
| --- | --- |
| id as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Application’s id. |

#### name

|  |  |
| --- | --- |
| name as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Application’s name. For paywall application it is “paywall”. |

#### paywall\_enabled

|  |  |
| --- | --- |
| paywall\_enabled as boolean | |
| **Scope** | instance |
| **Type** | boolean |
| **Description** | Whether paywall application is enabled. |

#### marketing\_opt

|  |  |
| --- | --- |
| marketing\_opt as boolean | |
| **Scope** | instance |
| **Type** | boolean |
| **Description** | Whether marketing options is enabled. |

#### paywall\_time

|  |  |
| --- | --- |
| paywall\_time as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | ? |

#### payment\_options

|  |  |
| --- | --- |
| payment\_options as object | |
| **Scope** | instance |
| **Type** | roArray of string |
| **Description** | Array of payment methods, possible values:   * card * paypal |

#### subscription\_tariffs

|  |  |
| --- | --- |
| subscription\_tariffs as object | |
| **Scope** | instance |
| **Type** | roArray of inv\_SubscriptionTariff |
| **Description** | Available subscription options/tariffs defined by publisher. |

### Methods

#### inv\_NewPaywall

|  |  |
| --- | --- |
| *function inv\_NewPaywall(paywallData as object) as object* | |
| **Scope** | static |
| **Parameters** | none |
| **Return type** | inv\_Paywall |
| **Description** | Creates a inv\_Paywall application |

#### inv\_Paywall\_Start

|  |  |
| --- | --- |
| *function inv\_Paywall\_Start() as boolean* | |
| **Scope** | instance |
| **Instance method name** | Start |
| **Parameters** | none |
| **Return type** | boolean |
| **Description** | Starts the paywall application. Returns always true. |

#### inv\_Paywall\_Update

|  |  |
| --- | --- |
| *function inv\_Paywall\_Update(videoPlayer as object, videoProgress as integer) as boolean* | |
| **Scope** | instance |
| **Instance method name** | Update |
| **Parameters** | |  |  | | --- | --- | | *videoPlayer* | | | **Type** | roVideoScreen | | **Description** | Roku roVideoScreen that is playing current video | | *videoProgress* | | | **Type** | integer | | **Description** | Playing video progress in seconds | |
| **Return type** | boolean |
| **Description** | Updates the paywall application. This method checks whether current playing video is paid. If video is not paid, guides the user through getting access process.  Returns true if video is paid otherwise false. |

#### inv\_Paywall\_Stop

|  |  |
| --- | --- |
| *function inv\_Paywall\_Stop() as void* | |
| **Scope** | instance |
| **Instance method name** | Stop |
| **Parameters** | none |
| **Return type** | void |
| **Description** | This method does nothing. |

#### inv\_Paywall\_BuyAccess

|  |  |
| --- | --- |
| *function inv\_Paywall\_BuyAccess() as integer* | |
| **Scope** | instance |
| **Instance method name** | BuyAccess |
| **Parameters** | none |
| **Return type** | integer |
| **Description** | This method guides the user through buying access process.  Returns integer with following possible values:   * -1: user choses to go back (previous screen); * 0: user has successfully bought an access; * 100: there was no currently logged-in user and creating a guest account failed; * 101: there was no ordering options available; * 102: payment process failed for any reason; * 103: choosing item order failed for any reason; |

#### inv\_Paywall\_AlreadyHaveAccess

|  |  |
| --- | --- |
| *function inv\_Paywall\_AlreadyHaveAccess() as integer* | |
| **Scope** | instance |
| **Instance method name** | AlreadyHaveAccess |
| **Parameters** | none |
| **Return type** | integer |
| **Description** | This method guides the user to gain access with an existing account.  Returns integer with following possible values:   * -1: user choses to go back (previous screen); * 0: user has successfully gained an access with an existing account;   If none of above conditions is met, user will be guided through buying an access with inv\_Paywall\_BuyAccess, and returns the result from that method. |

## inv\_SubscriptionTariff

### Attributes

#### id

|  |  |
| --- | --- |
| id as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Subscription tariff’s id. |

#### price

|  |  |
| --- | --- |
| price as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Subscription tariff’s price. |

#### name

|  |  |
| --- | --- |
| name as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Subscription tariff’s name. |

#### period

|  |  |
| --- | --- |
| period as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Subscription tariff’s period. |

#### item\_type

|  |  |
| --- | --- |
| Item\_type as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Item order’s type. For subscription tariffit is always “subscription”. |

#### paypal\_comission

|  |  |
| --- | --- |
| paypal\_comission as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Subscription tariff’s paypal comission. |

#### system\_price

|  |  |
| --- | --- |
| system\_price as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Subscription tariff’s price in system currency. |

#### currency

|  |  |
| --- | --- |
| currency as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | The currency of subscription tariff’s price. |

#### currency\_symbol

|  |  |
| --- | --- |
| currency as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | The currency symbol of subscription tariff’s price. |

### Methods

#### inv\_NewSubscriptionTariff

|  |  |
| --- | --- |
| *function inv\_NewSubscriptionTariff(subscriptionTariffData as object) as object* | |
| **Scope** | static |
| **Parameters** | |  |  | | --- | --- | | *subscriptionTariffData* | | | **Type** | roAssociativeArray | | **Description** | json associative array for subscription tariff of paywall application returned by platform’s api call get\_video\_details. | |
| **Return type** | inv\_SubscriptionTariff |
| **Description** | Creates a new inv\_SubscriptionTariff . |

## inv\_InputScreen

### Attributes

#### title

|  |  |
| --- | --- |
| id as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Input screen’s title. |

### Methods

#### inv\_NewInputScreen

|  |  |
| --- | --- |
| *function inv\_NewInputScreen(inputTitle="" as string) as object* | |
| **Scope** | static |
| **Parameters** | |  |  | | --- | --- | | *inputTitle* | | | **Type** | string | | **Description** | Input screen’s title | |
| **Return type** | inv\_InputScreen |
| **Description** | Creates a new inv\_InputScreen |

#### inv\_InputScreen\_MessageBox

|  |  |
| --- | --- |
| *function inv\_InputScreen\_MessageBox(text="" as string, buttons=["Yes", "No"] as object) as object* | |
| **Scope** | instance |
| **Instance method name** | MessageBox |
| **Parameters** | |  |  | | --- | --- | | *text* | | | **Type** | string | | **Description** | Info text presented to the user | | *Buttons* | | | **Type** | roArray | | **Description** | Buttons as an array of strings that needs to be shown in the message box. | |
| **Return type** | roAssociativeArray: {  result as integer,  button as integer  } |
| **Description** | Shows a message box with information text and set of buttons.  If user press a back button on remote controller, returned result is false, otherwise returned result is true and button is the index of button that was pressed. |

#### inv\_InputScreen\_GetInputChoice

|  |  |
| --- | --- |
| *function inv\_InputScreen\_GetInputChoice(text="" as string, choices=["Yes", "No"] as object, overlay=true as boolean) as object* | |
| **Scope** | instance |
| **Instance method name** | GetInputChoice |
| **Parameters** | |  |  | | --- | --- | | *text* | | | **Type** | string | | **Description** | Info text presented to the user | | *choices* | | | **Type** | roArray | | **Description** | Choices as an array of strings that user can choose from. | |
| **Return type** | roAssociativeArray: {  result as integer,  choice as integer  } |
| **Description** | Asks the user to choose one from available choices.  If user press a back button on remote controller, returned result is false, otherwise returned result is true and choice is the index of a choice that was pressed. |

#### inv\_InputScreen\_GetInputText

|  |  |
| --- | --- |
| *function inv\_InputScreen\_GetInputText(displayText as string, initialText="" as string, buttons=["Next", "Back"] as object, secure=false as boolean) as object* | |
| **Scope** | instance |
| **Instance method name** | GetInputText |
| **Parameters** | |  |  | | --- | --- | | *displayText* | | | **Type** | string | | **Description** | Info text presented to the user | | *initialText* | | | **Type** | string | | **Description** | Initial input text field value | | *buttons* | | | **Type** | roArray | | **Description** | Buttons as an array of strings that needs to be shown at the input text screen. | |
| **Return type** | roAssociativeArray: {  result as integer,  button as integer,  value as string  } |
| **Description** | Asks the user to input text, with initial value, and an option for whether entered text is hidden/secured or not. A set of buttons is presented to the user too.  If user press a back button on remote controller, returned result is false, otherwise returned result is true, value contains entered text and button is the index of a button that was pressed. |

#### inv\_InputScreen\_GetInputPin

|  |  |
| --- | --- |
| *function inv\_InputScreen\_GetInputPin(buttons=["Next", "Back"] as object, numPinEntryFields=4 as integer) as object* | |
| **Scope** | instance |
| **Instance method name** | GetInputPin |
| **Parameters** | |  |  | | --- | --- | | *buttons* | | | **Type** | roArray | | **Description** | Buttons as an array of strings that needs to be shown at the pin input screen. | | *numPinEntryFields* | | | **Type** | integer | | **Description** | Number of entered pin digits. | |
| **Return type** | roAssociativeArray: {  result as integer,  button as integer,  pin as string  } |
| **Description** | Asks the user to enter pin code, with exact number of pin digits.  A set of buttons is presented to the user too.  If user press a back button on remote controller, returned result is false, otherwise returned result is true, pin contains entered pin code and button is the index of a button that was pressed. |

## inv\_PaymentScreen

### Attributes

#### item\_order

|  |  |
| --- | --- |
| item\_order as object | |
| **Scope** | instance |
| **Type** | roAssociativeArray: {  id as string,  item\_type as string  } |
| **Description** | Item to pay. |

#### payment\_options

|  |  |
| --- | --- |
| payment\_options as object | |
| **Scope** | instance |
| **Type** | roArray |
| **Description** | Array of payment methods, possible values:   * card * paypal |

### Methods

#### inv\_NewPaymentScreen

|  |  |
| --- | --- |
| *function inv\_NewPaymentScreen(invItemOrder as object, paymentOptions as object) as object* | |
| **Scope** | static |
| **Parameters** | |  |  | | --- | --- | | *invItemOrder* | | | **Type** | roAssociativeArray: {  id as string,  item\_type as string  } | | **Description** | Item to pay. | | *paymentOptions* | | | **Type** | roArray | | **Description** | Array of payment methods, possible values:   * card * paypal | |
| **Return type** | inv\_PaymentScreen |
| **Description** | Creates a new inv\_PaymentScreen |

#### inv\_PaymentScreen\_PayItemOrder

|  |  |
| --- | --- |
| *function inv\_PaymentScreen\_PayItemOrder() as object* | |
| **Scope** | instance |
| **Instance method name** | PayItemOrder |
| **Parameters** | none |
| **Return type** | roAssociativeArray: {  result as integer  } |
| **Description** | Guides user through the payment process for the item to order with a given payment options.  Returned result codes are:   * -1: user choses to go back (previous screen); * 0: payment was successful; |

## inv\_CardPaymentScreen

### Attributes

#### description

|  |  |
| --- | --- |
| description as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Description text used by inv\_PaymentScreen while presenting the user with available payment methods. |

#### item\_order

|  |  |
| --- | --- |
| item\_order as object | |
| **Scope** | instance |
| **Type** | roAssociativeArray: {  id as string,  item\_type as string  } |
| **Description** | Item to pay. |

### Methods

#### inv\_NewCardPaymentScreen

|  |  |
| --- | --- |
| *function inv\_NewCardPaymentScreen(invItemOrder as object) as object* | |
| **Scope** | static |
| **Parameters** | |  |  | | --- | --- | | *invItemOrder* | | | **Type** | roAssociativeArray: {  id as string,  item\_type as string  } | | **Description** | Item to pay. | |
| **Return type** | inv\_CardPaymentScreen |
| **Description** | Creates a new inv\_CardPaymentScreen |

#### inv\_CardPaymentScreen\_MakePayment

|  |  |
| --- | --- |
| *function inv\_CardPaymentScreen\_MakePayment() as object* | |
| **Scope** | instance |
| **Instance method name** | MakePayment |
| **Parameters** | none |
| **Return type** | roAssociativeArray: {  result as integer  } |
| **Description** | Guides user through the card payment process for the item to order.  Returned result codes are:   * -1: user choses to go back (previous screen); * 0: payment was successful; * 100: inv\_CardPaymentScreen\_MakeNewCardPayment method has failed; * 101: inv\_CardPaymentScreen\_MakeSavedCardPayment method has failed; |

#### inv\_CardPaymentScreen\_MakeNewCardPayment

|  |  |
| --- | --- |
| *function inv\_CardPaymentScreen\_MakeNewCardPayment(isDebit as boolean) as object* | |
| **Scope** | instance |
| **Instance method name** | MakeNewCardPayment |
| **Parameters** | |  |  | | --- | --- | | *isDebit* | | | **Type** | boolean | | **Description** | Whether payment is with a new debit card or new credit card | |
| **Return type** | roAssociativeArray: {  result as integer  } |
| **Description** | Guides user through the payment with a new credit/debit card process for the item to order.  Returned result codes are:   * -1: user choses to go back (previous screen); * 0: payment was successful; * 100: platform’s make\_card\_payment api call has failed; |

#### inv\_CardPaymentScreen\_MakeSavedCardPayment

|  |  |
| --- | --- |
| *function inv\_CardPaymentScreen\_MakeSavedCardPayment() as object* | |
| **Scope** | instance |
| **Instance method name** | MakeSavedCardPayment |
| **Parameters** | none |
| **Return type** | roAssociativeArray: {  result as integer  } |
| **Description** | Guides user through the payment with a saved credit/debit card process for the item to order.  Returned result codes are:   * -1: user choses to go back (previous screen); * 0: payment was successful; * 100: platform’s make\_card\_payment api call has failed; |

## inv\_SubscriptionScreen

### Attributes

#### subscription\_tariffs

|  |  |
| --- | --- |
| Subscription\_tariffs as object | |
| **Scope** | instance |
| **Type** | roArray of inv\_SubscriptionTariff |
| **Description** | An array of available subscription tariffs |

#### title

|  |  |
| --- | --- |
| title as string | |
| **Scope** | instance |
| **Type** | string |
| **Description** | Title text used by inv\_PaymentScreen while presenting the user with available item types to order. |

### Methods

#### inv\_NewSubscriptionScreen

|  |  |
| --- | --- |
| *function inv\_NewSubscriptionScreen(invSubscriptionTariffs as object) As Object* | |
| **Scope** | static |
| **Parameters** | |  |  | | --- | --- | | *invSubscriptionTariffs* | | | **Type** | roArray of inv\_SubscriptionTariff | | **Description** | An array of available subscription tariffs | |
| **Return type** | inv\_SubscriptionScreen |
| **Description** | Creates a new inv\_SubscriptionScreen |

#### inv\_SubscriptionScreen\_ChooseOrder

|  |  |
| --- | --- |
| *function inv\_SubscriptionScreen\_ChooseOrder() as object* | |
| **Scope** | instance |
| **Instance method name** | ChooseOrder |
| **Parameters** | none |
| **Return type** | roAssociativeArray: {  result as integer,  item\_order as object  } |
| **Description** | Asks the user to choose one from available subscription tariffs.  If user choses to go back (previous screen) returned result code is -1 and item\_order is null (invalid) otherwise returned result code is 0 and item\_order is the chosen subscription tariff by the user. |

## inv\_UserAuthorizationScreen

### Attributes

### Methods

#### inv\_NewUserAuthorizationScreen

|  |  |
| --- | --- |
| *function inv\_NewUserAuthorizationScreen()* | |
| **Scope** | static |
| **Parameters** | none |
| **Return type** | inv\_UserAuthorizationScreen |
| **Description** | Creates a new inv\_UserAuthorizationScreen |

#### inv\_UserAuthorizationScreen\_Register

|  |  |
| --- | --- |
| function inv\_UserAuthorizationScreen\_Register() as *object* | |
| **Scope** | instance |
| **Instance method name** | Register |
| **Parameters** | none |
| **Return type** | roAssociativeArray: {  result as integer,  message as string,  user as inv\_User,  password as string  } |
| **Description** | Guides the user through new user registration steps.  If user choses to go back (previous screen) returned result code is -1, user is null (invalid) and password is empty.  If registration succeeded returned result code is 0, user is valid inv\_User and password is supplied password by the user.  If registration failed returned result code is 100, user is null (invalid) and password is empty. |

#### inv\_UserAuthorizationScreen\_Login

|  |  |
| --- | --- |
| function inv\_UserAuthorizationScreen\_Login() as *object* | |
| **Scope** | instance |
| **Instance method name** | Login |
| **Parameters** | none |
| **Return type** | roAssociativeArray: {  result as integer,  message as string,  user as inv\_User,  password as string  } |
| **Description** | Guides the user through user login steps.  If user choses to go back (previous screen) returned result code is -1, user is null (invalid) and password is empty.  If login succeeded returned result code is 0, user is valid inv\_User and password is supplied password by the user. |

## inv\_VideoScreen

### Attributes

#### episode

|  |  |
| --- | --- |
| episode as object | |
| **Scope** | instance |
| **Type** | roAssociativeArray |
| **Description** | This attribute must conforms to Roku’s roVideoScreen.SetContent() |

#### screen

|  |  |
| --- | --- |
| screen as object | |
| **Scope** | instance |
| **Type** | roVideoScreen |
| **Description** | A video screen that will play the video. |

#### port

|  |  |
| --- | --- |
| port as object | |
| **Scope** | instance |
| **Type** | roMessagePort |
| **Description** | A message port for screen object. |

### Methods

#### inv\_NewVideoScreen

|  |  |
| --- | --- |
| *function inv\_NewVideoScreen(invEpisode as object) as object* | |
| **Scope** | static |
| **Parameters** | |  |  | | --- | --- | | *invEpisode* | | | **Type** | roAssociativeArray | | **Description** | See episode attribute. | |
| **Return type** | inv\_VideoScreen |
| **Description** | Creates a new inv\_VideoScreen. |

#### inv\_VideoScreen\_Play

|  |  |
| --- | --- |
| function inv\_VideoScreen\_Play(invPosition=0 as *integer*) as *boolean* | |
| **Scope** | instance |
| **Instance method name** | Play |
| **Parameters** | |  |  | | --- | --- | | *invPosition* | | | **Type** | integer | | **Description** | Position to play video from in seconds. | |
| **Return type** | boolean |
| **Description** | Starts playing the episode from a given position in seconds. |

#### inv\_VideoScreen\_Stop

|  |  |
| --- | --- |
| function inv\_VideoScreen\_Stop() as *void* | |
| **Scope** | instance |
| **Instance method name** | Stop |
| **Parameters** | none |
| **Return type** | void |
| **Description** | Stops playing the episode. It also destroys the screen and the port. |

# Usage

Invideous Roku Library is designed for very simple usage. All session variables, current logged-in user, current playing video etc. is held by global singleton object inv\_Platform and can be accessed at any time by calling inv\_Platform\_Get.

At very first execution point of application, library needs to be initialized like following:

invPlatform=inv\_Platform\_Get()

invPlatform.refferer="http://www.example.com"

Here is a code snippet for how to play a published video at Invideous video platform:

function playVideo(episode as object) as boolean

invPlatform=inv\_Platform\_Get()

*' retrieve video details:*

invVideo=inv\_Video\_GetDetails(episode.id, invPlatform.user)

if invVideo=invalid then

return false

end if

*' notify inv\_Platform for video we want to play:*

if not invPlatform.OnVideoStart(invVideo) then

return false

end if

*' create a new inv\_VideoScreen for playing video*

invVideoScreen=inv\_NewVideoScreen(episode)

if not invVideoScreen.Play() then

return false

endif

while true

msg=invVideoScreen.*Wait*()

if type(msg) = "roVideoScreenEvent" then

if msg.*isScreenClosed*() then

exit while

elseif msg.*isRequestFailed*() then

print "Video request failure: "; msg.GetIndex(); " " msg.GetData()

elseif msg.*isStatusMessage*() then

print "Video status: "; msg.GetIndex(); " " msg.GetData()

elseif msg.*isButtonPressed*() then

print "Button pressed: "; msg.GetIndex(); " " msg.GetData()

elseif msg.*isPlaybackPosition*() then

nowpos=msg.GetIndex()

*' notify inv\_Platform on each video progress.*

*' inv\_Platform will update each video application associated with video.*

*' On failure to update of at least one video application, inv\_Platform.OnVideoProgress() will*

*' return false, and we need to stop playing the video.*

if not invPlatform.OnVideoProgress(invVideoScreen, nowpos) then

exit while

end if

else

print "Unexpected event type: "; msg.GetType()

end if

else

print "Unexpected message class: "; type(msg)

end if

end while

invVideoScreen.Stop()

*' notify inv\_Platform that we have finished playing the video*

invPlatform.OnVideoStop()

return true

end function