

History

| Version | Date | Notes | Author | Reviewed By |
|---------|-------------|---|--------|-------------|
| 1.0 | 12-Apr-2016 | First draft version floated | Alok | Donald |
| 1.1 | 14-Apr-2016 | Added below sections based on Donald's review & updated open points <ul style="list-style-type: none">• Use Case• UI requirements• Cleeng APIs to be used | | |

Purpose:

The purpose of this document is to record the requirements of "Cleeng Roku SDK" henceforth referred in this document as "the SDK". Any developer(s) using the SDK will be referred as a "SDK user" in this document.

Cleeng will develop the SDK as pluggable Roku library with minimal dependencies and it would be used with little efforts to create a Roku channel with content/events associated with a Cleeng account.

Audience:

Application developers associated with Cleeng based publishers. It is expected that individual/small publishers, who would like their Cleeng based events on Roku platform would find this easy to use SDK useful.

Licensing:

At this point it is assumed that the SDK license would be an Open source license compatible with Apache license v2.

Scope:

- Development of BrightScript code library based on Roku SDK
- Integration with Cleeng (publisher) account using Cleeng's server APIs
- Mechanism of device linking using end user's transaction/receipt reference number
- Documentation of the process/steps about how to use the SDK
- Publishing the SDK details on public platform (Github) & Cleeng's website

Out-Of-Scope

- The SDK will not support legacy Roku devices. So Firmware versions 4.0 onwards will be supported only.
- Any support asked by SDK users for implementation/channel submission to Roku / Production support activities will be deemed out-of-scope.
- Addressing OVP specific integration/security needs are not covered.
- Supporting alternate (optional) UI views would be out of scope. The SDK will assume to get a valid video url (http/https based).
- SDK may receive feedback/suggestions from public but entertaining them will be subject to Cleeng's approval
- Any custom graphics specifications (e.g. for branding purposes) will not be entertained.

Functional Requirements:

- A Cleeng Roku SDK user, should be able to download & run a pre-templated Roku Channel using this SDK.
- The SDK will support both HD (720p) & SD (480p) display modes of a Roku device.
- The SDK should support a separate configuration file which the SDK user can use to provide their Cleeng account specific parameters [TBD].
- An instruction document needs to be provided with to support SDK.

Use Case Diagram:

Following use-case is intended to be followed by the SDK supported Roku channel.

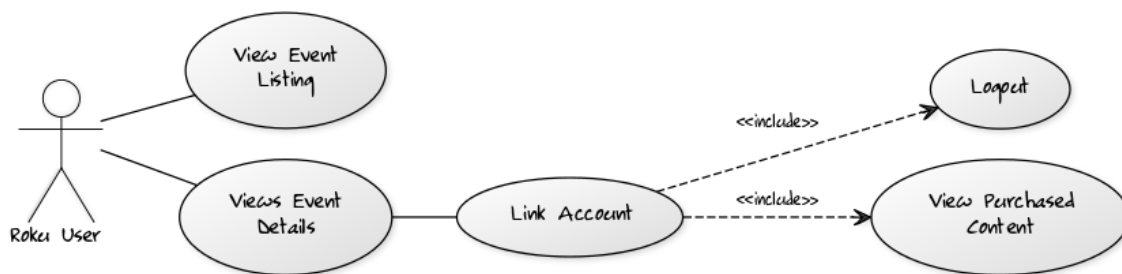


Figure 1: Use Case

UI Requirements:

The UI of the SDK will borrow from Roku SDK based templates and it will have following key UI screens.

1. Event Listing Screen
2. Account Linking Screen (using Cleeng receipt number)

Apart from this the application will support following features:

- A overhang banner which can be used for branding purposes. The path to this banner image will be a configurable value.
- The user input (receipt number) will be received by standard Roku keyboard (no custom keyboard).
- The application will also allow the end user to logout.

Below are the reference-mock UIs for key UI screens:

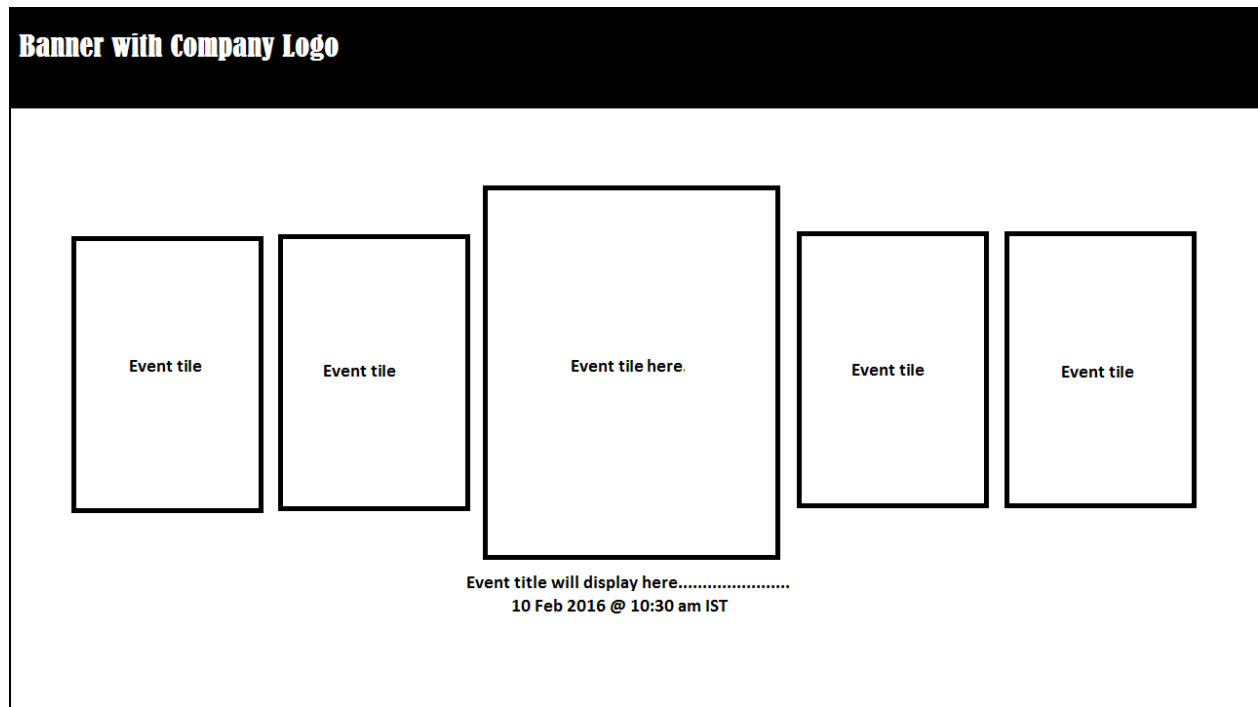


Figure 2 : Event Listing Screen

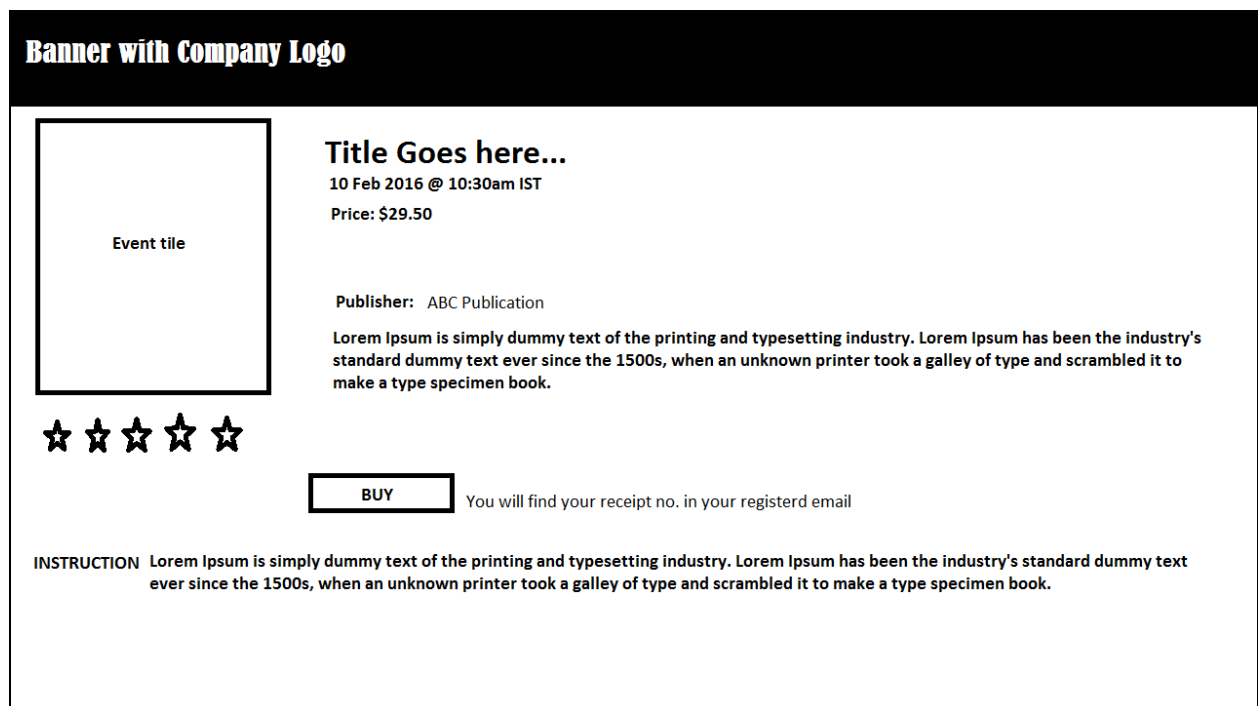


Figure 3: Account linking Screen

Tools & Technology

Software: BrightScript, Cleeng's Server Side APIs (JSON based)

Development Environment: Standard Roku development environment

Cleeng APIs to be used:

1. [generateCustomerTokenFromTransactionId](#)
2. [getAccessStatusForDevice](#)

Open points:

- It is assumed that the offer Ids that need to be shown on the Roku Channel will be provided by SDK user. This assumption needs to be confirmed.
- It is assumed that integration of any analytics framework it not in scope. This needs to be confirmed.