**TVML**

IP-516\_AppleTV App

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**Client:** Michael Keller, UPC

Authors

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Revision list

| **Version** | **Date** | **Comment** | **Author** |
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| 0.1 | 19.11.2016 | Initial version | AZ |
| 0.2 | 28.11.2016 | New content | AZ |
|  |  |  |  |

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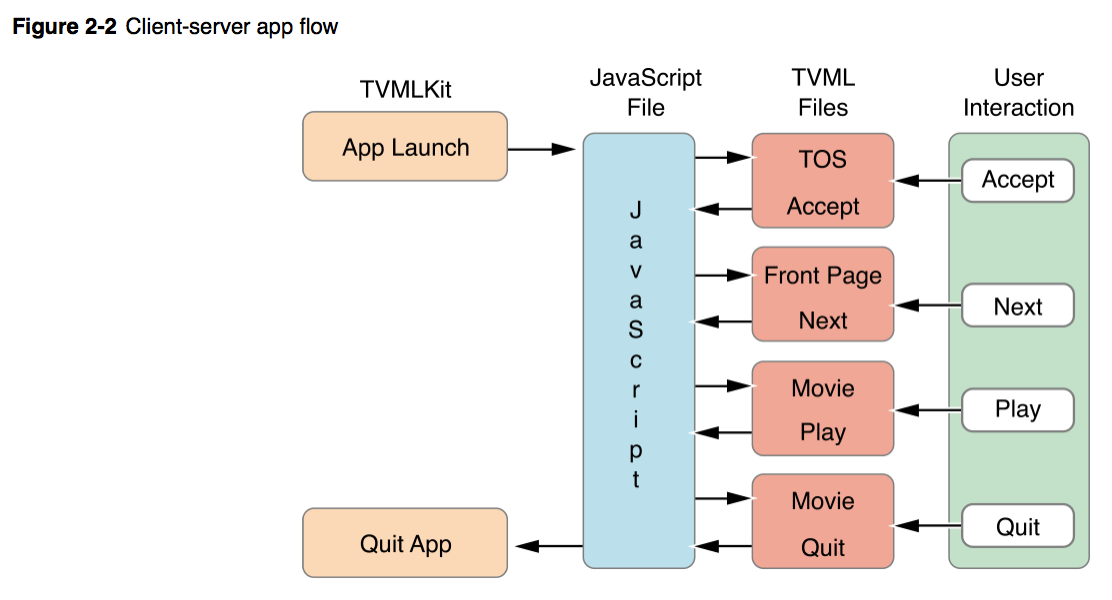
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# About TVML[[1]](#footnote-1)[[2]](#footnote-2)

The Apple TVML, Television Markup Language, provides the service to create individual pages inside of a client-server application. It is an easy possibility to create apps for Apple TV using TVMLKit JavaScript (TVMLKit JS), TVML, and the TVMLKit framework.

[[3]](#footnote-3)

# Project structure

The project is split in two parts:

1. TVMLCatalog: this directory contains the XCode project and its related files. The main part, the AppDelegate.swift file, handles the setup of the TVMLKit framework and launching the JavaScript context to manage the app.
2. Server: this directory contains JavaScript and XML files that are responsible for rendering the application. Each JavaScript file loads TVML pages and pushes each page onto the navigation stack. This content must be hosted on a server accessible form the device.

## 2.2 Setup:

### 2.2.1 Folder structure:

As for the two different project parts, there are as well two folders containing the directories. The following structure is recommended:

* client
  + js
  + resources
  + templates
* “project name”
  + all XCode generated files

### 2.2.2 Settings in XCode that has to be made:

After iOS9 your app will prevent linking to non-HTTPS servers, therefore you have to add in Info.plist “App Transport Security Settings” and its child “Allow Arbitrary Loads” (Boolean, YES) as a new key.

### 2.2.3 Server Setup:

1. Open your terminal
2. Add the path to the directory
3. Start a simple webserver with for example: ruby -run -ehttpd . -p9001 or python -m SimpleHTTPServer 9001

1. <https://developer.apple.com/library/content/documentation/TVMLKitJS/Conceptual/TVMLProgrammingGuide/index.html#//apple_ref/doc/uid/TP40016718-CH6-SW1> [↑](#footnote-ref-1)
2. <https://developer.apple.com/library/content/documentation/LanguagesUtilities/Conceptual/ATV_Template_Guide/index.html#//apple_ref/doc/uid/TP40015064> [↑](#footnote-ref-2)
3. <https://developer.apple.com/library/content/documentation/General/Conceptual/AppleTV_PG/YourFirstAppleTVApp.html#//apple_ref/doc/uid/TP40015241-CH3-SW1> [↑](#footnote-ref-3)