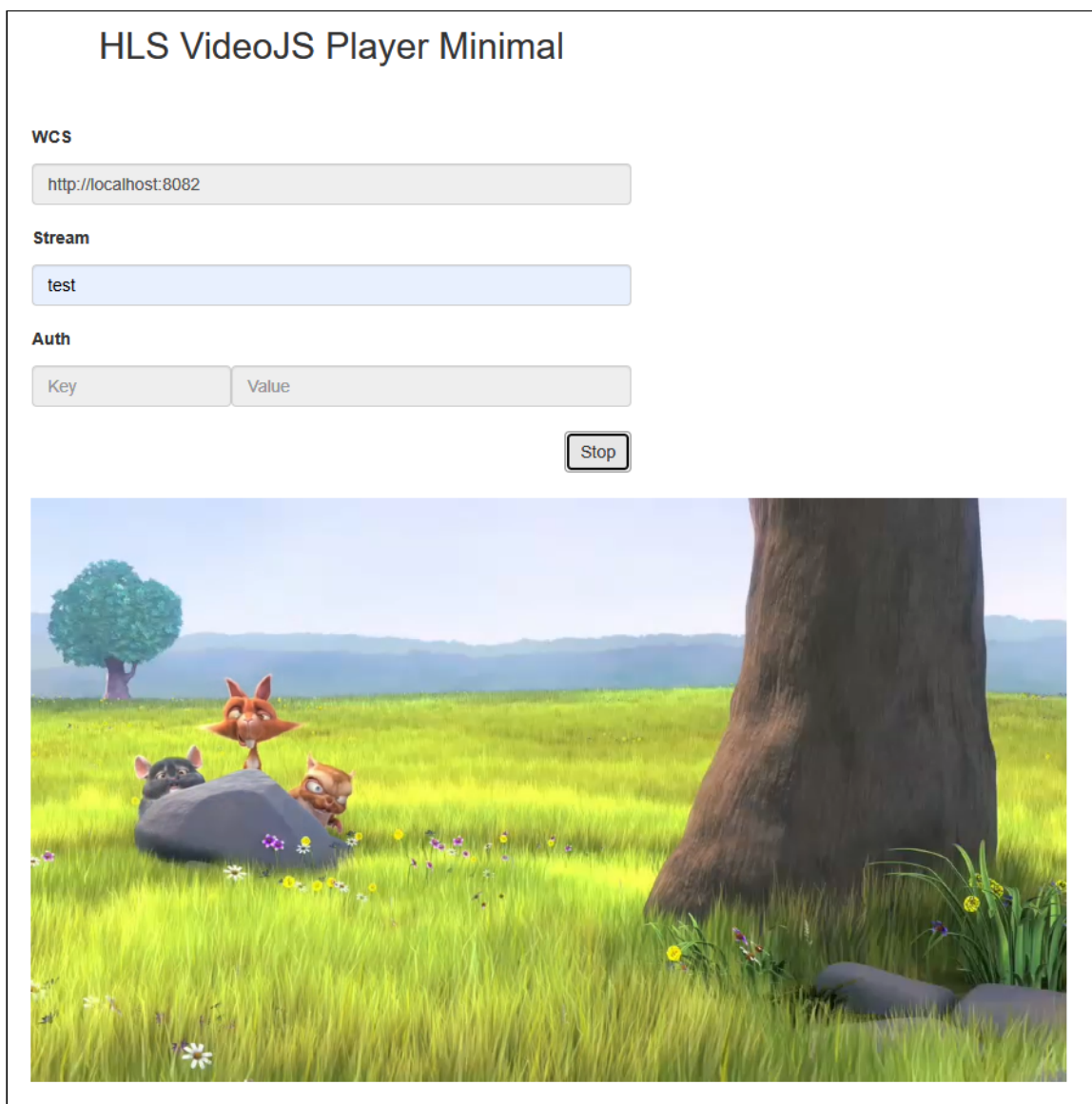


HLS VideoJS Player

Example of stream conversion to HLS and playing it in browser using VideoJS

The player shows how to convert stream published on WCS server to HLS and play it in browser. HLS stream cut starts automatically when stream is requested by HLS URL, for example `http://localhost:8082/test/test.m3u8` on the screenshot below



The code of the example

The source code can be accessed on server by the following path:

/usr/local/FlashphonerWebCallServer/client2/examples/demo/streaming/hls-player

- hls-player.css - player page styles file
- video-js.css - HLS player styles file
- hls-player.html - player page
- hls-player.js - player launch script
- player-page.html - common player page elements for three HLS playback examples
- video.js - player script (<http://videojs.com/>, Apache License Version 2.0)
- videojs-hls.min.js - player script (minimized)

The example can be tested using the following URL:

https://host:8888/client2/examples/demo/streaming/hls-player/hls-player.html

Where host is WCS server address

Analyzing the code

To analyze the code get `hls-player.js` file version with hash `ecbadc3`, which is available [here](#) and can be downloaded in build `2.0.212`.

1. A server HLS URL detection

`getHLSUrl()` code

```
function initPage() {
  $("#header").text("HLS VideoJS Player Minimal");
  $("#urlServer").val(getHLSUrl());
  ...
}
```

2. Player initialization

`videojs()` code

A div element for stream playback is passed to player

```
function initPage() {
  ...
  var remoteVideo = document.getElementById('remoteVideo');
  remoteVideo.className = "video-js vjs-default-skin";
  player = videojs(remoteVideo);
}
```

3. Stream name detection (the stream should be published to server)

`encodeURIComponent()` [code](#)

```
function playBtnClick() {
  if (validateForm()) {
    var streamName = $('#playStream').val();
    streamName = encodeURIComponent(streamName);
    ...
  }
}
```

4. HLS stream URL forming and player launching

`player.play()` [code](#)

If authentication key and token are set, they will be included to stream URL

```
function playBtnClick() {
  if (validateForm()) {
    ...
    var videoSrc = $("#urlServer").val() + '/' + streamName + '/' +
streamName + '.m3u8';
    var key = $('#key').val();
    var token = $("#token").val();
    if (key.length > 0 && token.length > 0) {
      videoSrc += "?" + key + "=" + token;
    }
    player.src({
      src: videoSrc,
      type: "application/vnd.apple.mpegurl"
    });
    console.log("Play with VideoJs");
    player.play();
    onStarted();
  }
}
```

5. Playback stopping

`player.dispose()` [code](#)

This method removes the div container tag where player was initialized from the page

```
function stopBtnClick() {
  if (player != null) {
    console.log("Stop VideoJS player");
    player.pause();
  }
  onStopped();
}
```

6. New `div` container tag creation after previous player was removed

code

```
function createRemoteVideo(parent) {
  remoteVideo = document.createElement("video");
  remoteVideo.id = "remoteVideo";
  remoteVideo.width=852;
  remoteVideo.height=480;
  remoteVideo.controls="controls";
  remoteVideo.autoplay="autoplay";
  remoteVideo.type="application/vnd.apple.mpegurl";
  remoteVideo.className = "video-js vjs-default-skin";
  parent.appendChild(remoteVideo);
  player = videojs(remoteVideo);
}
```