html/css softphone

VERSION HISTORY

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| **Version #** | **Implemented**  **By** | **Revision**  **Date** | **Approved**  **By** | **Approval**  **Date** | **Reason** |
| 1.0 |  |  |  |  | Initial Design Draft |

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# Introduction

## Project Objective

This is a full HTML/CSS ★nice looking ★phone that is fully functional. It uses the Kazoo.js library for the communications part. It should be a separate jQuery plug-in that has nothing to do with KazooUI or MonsterUI.

# General Overview and Design Guidelines

## Prototype and Scope Assessment

No, this is not required. Have a nice day. ☺

## Assumptions / Constraints / Standards

It is assumed that this functionality could work anywhere where jQuery is installed.

It is assumed that this library will be released for the open-source, using the MIT License.

# Components

## End-User Experience

The end user should be able to login by using some SIP Credentials (SIP Username, SIP Password and a SIP Realm). He would then have access to a basic Softphone UI, allowing him to place and receive calls, mute/unmute his microphone, pressing 1-9,\*,# and transfer calls. Finally, he can also log out of that softphone, which will unregister this device for him. The user of the library can also choose what he wants to display from the UI, from a full dialpad with transfer/call buttons etc… to just a single “call” button.

## Management and Configuration

The user will need to provide technical information to the kazoo.js library:

* an address to the RTMP Gateway (such as rtmp://10.26.0.41/sip)
* and address to the WebRTC channel (such as ws://10.26.0.41:8080)
* SIP Credentials (username password and realm)

The user will also have the option to configure the display options:

* Displaying the dialpad
* Displaying the call/hangup button
* Displaying the status indicator
* Displaying the text input showing the destination
* Displaying the transfer button
* … basically anything that’s displayed

## Core / Backend Work

This is only a front-end project.

# Operational Considerations

## Installation Considerations

This library should be a jQuery plugin made of a JS File and a CSS File to allow users to customize the styling. To install it you would just need to add a reference to the script and CSS in a HTML page.

## Monitoring Functionality

## Diagnostic Tools

## QA Automation Concepts

# Task List

Below are the assumed list of tickets that need to be filed, as provided by an engineer who has reviewed the above requirements.

* Build a jQuery plug-in that display a div in a container (ie: Being able to do $(‘#myDiv’).softphone(deviceParams, displayOptions), to populate #myDiv with the softphone where deviceParams are the technical requirements: SIP address and RTMP/WebRTC gateways, and displayOptions all the options of the actual UI component)
* Build the HTML and CSS (do NOT use inline styling) based on the mock-up provided by 2600hz. The UI should be composed of a dialpad (0-9, #, \*), a text input showing the destination, buttons for hangup/call, transfer and a status indicator. Before displaying this, the user should have to input his SIP Username, SIP Password and SIP Realm. It’s important that the interface is very customizable and the user initializing the library can choose which keys he wants to display or not (For example we need to be able to show/hide the dial pad, the call/hang up button, etc.. every single thing displayed in the UI should be togglable)
* Implement the call features. When typing a number, add the keys to a text input representing the destination number. When clicking the call button it should call that number and show it clearly on the UI. Once the call is picked up it should also display it on the UI. The duration of the call needs to be displayed in the UI. You can then sendDTMF, or transfer, or hang up the call while the call is active.
* Show a call history of the current session since the Softphone has been loaded. There should be a button to export history, that executes a callback provided to the library on initialization.
* Allow the end-user to define a callback to export the history of the calls that happened while he had the softphone open
* Make sure to update the status indicator properly, blue when logged in, green when available, orange when on call, and red when disconnected for example.
* If GET Parameters exist on the page with the SIP Username/Password and Realm, try to login automatically with the softphone.
* The user has the option to customize the labels displayed on the UI in order to allow internationalization for example. No hardcoded text should exist inside the HTML, but defaults will be automatically set, with the option to override those when initializing the library.

# Approval

The undersigned acknowledge they have reviewed the ***CUSTOMER*** project design specification document and agree with the approach it presents. Any changes to this Requirements Definition will be coordinated with and approved by the undersigned or their designated representatives.

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