Perl_Console_IVR_Example

```
#!/usr/bin/perl
use strict;
our $session;

# A simple IVR system that is meant to allow you to dial into your own system, authenticate with
# Shows writing to the console log, getting/setting variables, listening for DTMF tones (passive

# Notes:
#       This doesn't use the IVR module
#       It uses pre-fabbed audio messages no speaking (just for easyness), everywere I have test.
#       It relies on the rest of my dialplan to actually carry out some of the actions/bridging.
#       It doesn't use mod_loopback to execute the rest of my dialplan, as my dialplan is actuall


my $PLAY_TIMES = 5; #How many times to play the intro message before returning
my $PASS_KEY = "1234"; #Pass key to get into the system
my $MY_ACCT = "1000"; #Default account to take over once in

sub fprint($) #Dump string to the console
{
        my ($msg) = @_;
        freeswitch::consoleLog("CRIT",$msg . "\n");
}
my %VARS;
{ ####The idea of these functions is to allow for easy pull in of variables and then automaticall
        my %CLEAN_VARS;
        sub GETV #takes one or more variables names to import in
        {
                my @arr = @_;
                foreach my $var (@arr)
                {
                        $VARS{$var} = $session->getVariable($var);
                        $CLEAN_VARS{$var} = $VARS{$var};
                        $CLEAN_VARS{$var}="" if (! defined $CLEAN_VARS{$var});
                }
        }
        sub SETV($$) #Generally not called directly, but will set the variable to the value reque
        {
                my ($var,$value) = @_;
                $session->setVariable($var,$value);
                $VARS{$var} = $value;
                $CLEAN_VARS{$var} = $value;
        }
        sub ADDV(@) #If we don't care about a variables value, but wan't to override it this will
        {
                my @arr = @_;
                foreach my $var(@arr)
                {
                        $CLEAN_VARS{$var}="123zzzzzZnzZZzz"; #something definately won't match
                        $VARS{$var} = "";
                }
        }
        sub UPDATEV() #Updates any changed variables
        {
                foreach my $var (keys %VARS)
                {
                        die "Warning a variable of: $var was not found in CLEAN_VARS, did you for
                        SETV($var, $VARS{$var}) if ($VARS{$var} ne $CLEAN_VARS{$var});
                }
        }
}
```

```
my $press_so_far = "";
sub got_press
{
        my ($session,$type,$data) = @_;
        return if (length($press_so_far) > 30); #don't allow a string > 30 to be queued up
        $press_so_far .= $data->{digit};
        return;
}
sub set_user($) #this function takes over as if we sip_authed as that user.
{
        my ($user_id) = @_;
        $session->execute("set_user",$user_id. '@' . $VARS{domain});
        $MY_ACCT = $user_id;
        $VARS{sip_authorized}="true";
        $VARS{caller_id_number} = $user_id;
}
$session->answer();
$session->setInputCallback('got_press',""); #listen for key presses in the background
my $x;
GETV(qw/destination_number effective_caller_id_name effective_caller_id_number caller_id_number h
if ( $VARS{sip_authorized} ne "true" || $VARS{caller_id_number} ne $MY_ACCT) #if we are not autho
{
        for ($x = 0; $x < $PLAY_TIMES && $press_so_far ne $PASS_KEY && $session->ready(); $x++)
        {
                $session->streamFile("/root/test.wav"); #Please enter the pin number
        }
        return 1 if ($press_so_far ne $PASS_KEY);
        $press_so_far="";
}
#Dial Number
#Check Voicemail
#Set Caller ID
#Privacy Dial
#Become Another User
#Join Freeswitch Conference
set_user($MY_ACCT); #Once authed we should tak over the default user account
$VARS{hangup_after_bridge} = "true";

###Functions the user can choose, they return 1 if they expect the ivr to exit out after running
sub dial_number()
{
        my $num_dial = $session->playAndGetDigits(4,20,999,10000,'#',"/root/test.wav","/root/test
        return 1 if (! $session->ready());
        $VARS{destination_number} = $num_dial;
        UPDATEV();
        return 1;
}
sub check_voicemail()
{
        $VARS{destination_number} = $MY_ACCT;
        UPDATEV();
        return 1;
}
sub enable_privacy()
{
        $VARS{effective_caller_id_name} = "0000000000";
        $VARS{effective_caller_id_number} = "0000000000";
        $session->execute("privacy","yes");
        $session->streamFile("/root/test.wav"); #Privacy Mode Enabled
        return 0;
}
```

```
sub assume_user()
{
        my $user_id = $session->playAndGetDigits(4,4,999,10000,'#',"/root/test.wav","/root/test.w
        return 1 if (! $session->ready());
        set_user($user_id);
        $session->streamFile("/root/test.wav"); #You are now that user
        return 0;
}
sub join_freeswitch_conference()
{
        $VARS{destination_number} = "888";
        $session->streamFile("/root/test.wav"); #Joining Conference
        UPDATEV();
        return 1;
}
sub set_caller_id()
{
        my $num_spoof = $session->playAndGetDigits(4,20,999,10000,'#',"/root/test.wav","/root/tes
        return 1 if (! $session->ready());
        $VARS{effective_caller_id_name} = $num_spoof;
        $VARS{effective_caller_id_number} = $num_spoof;
        $session->streamFile("/root/test.wav"); #Caller ID Set
        return 0;
}
my %OPTIONS = ( 1=>\&dial_number,2=>\&check_voicemail,3=>\&assume_user,4=>\&set_caller_id,5=>\&en
while($session->ready())
{
        my $opt = $session->playAndGetDigits(1,1,999,10000,'#',"/root/test.wav","/root/test.wav",
        return 1 if (! $session->ready());
        if ($OPTIONS{$opt})
        {
                return 1 if ($OPTIONS{$opt}->()); #if it returns 1 we should leave the ivr
        }

}
1;
```