# Web Based Appointment Management System

Design Document

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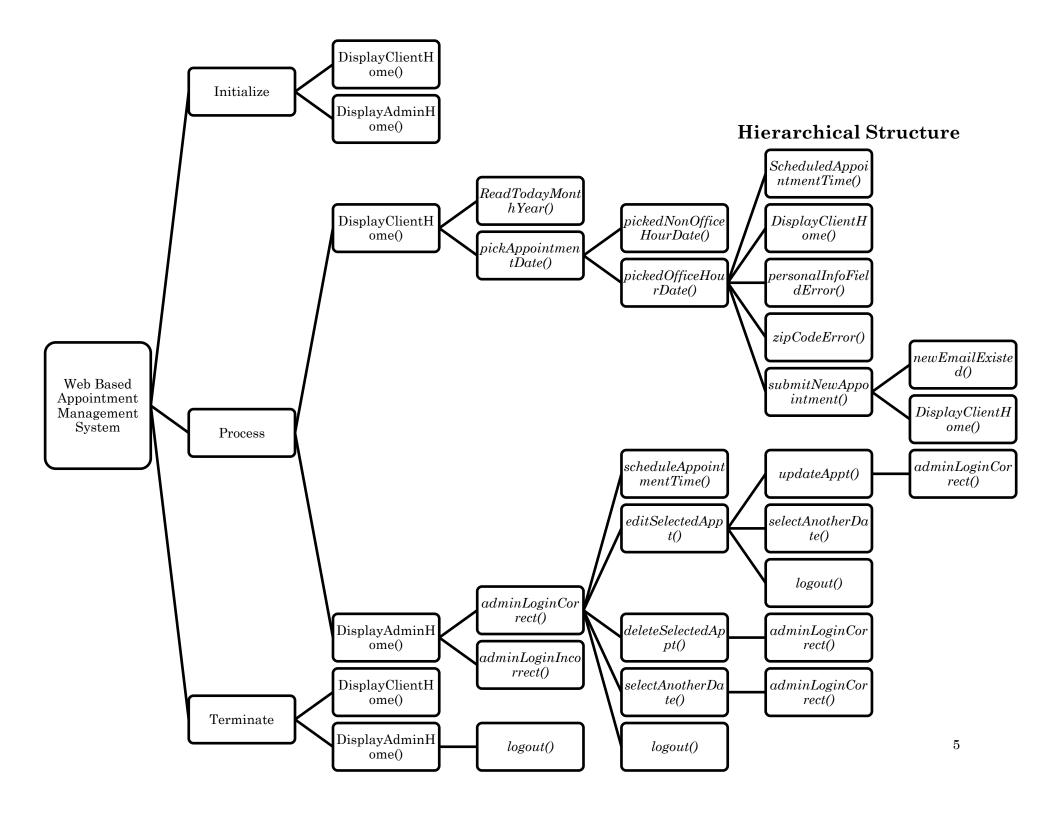
# **Data Structures**

Major data structures named with descriptions.

# **Associative Arrays**

I store the Web Based Appointment Management System (WBAMS) information in different associative arrays. The arrays will be written to PHP Associative-Array Data Format using the var\_export() function. The data will be read back to PHP Associative Array Data Format by using the data back again using eval().

```
$date = array (
        '07012012' => array (
                       '0809' => array (
                                 'Name' => 'Stephen Moon',
                                 'Address' => '1155 Union Circle',
                                 'City/State' => 'Denton, TX',
                                 'ZipCode' => 76201,
                                 'Phone' => 9405652000,
                                 'Email' => 'stephen.moon@my.unt.edu',
                                 'PurposeOfVisit' => 'Sore throat.',
                                 'NewPatient' => 'Yes',
                                 ),
                      ),
        );
$admins = array (
         'kc0001' => array (
                      'UserName' => 'Ka Son Chan',
                      'Password' => 'kckc01',
                      'Title' => 'Doctor',
                      ),
         );
```



# Temporary Variables

\$monthOfToday
\$yearOfToday
\$dayOfToday
<pre>\$tempScheduledDate</pre>
<pre>\$tempTime</pre>
<pre>\$newTime</pre>
\$tempDate
\$newDate
\$tempName
\$newName
\$tempAddress
\$newAddress
<pre>\$tempCityState</pre>
<pre>\$newCityState</pre>
<pre>\$tempZipCode</pre>
<pre>\$newZipCode</pre>
\$tempPhone
\$newPhone
<pre>\$tempEmail</pre>
\$newEmail
<pre>\$tempPurposeOfVisit</pre>
<pre>\$newPurposeOfVisit</pre>
<pre>\$tempNewPatient</pre>
<pre>\$newPatient</pre>
\$tempLoginID
\$tempPassword

### Pseudocode

#### 3.1. Client Interface

3.1.1. When the client first accesses the application website, the client can schedule an appointment by selecting on the calendar interface.

```
The application calls Function DisplayClientHome()

Function DisplayClientHome()
{
        Display "Dr. Fred's Appointment Calendar"
        Display "Select New Appointment Date"
        Call Function ReadTodayMonthYear()
        Display the month and year of today calendar to the Client Interface Homepage calendar.
}

Function ReadTodayMonthYear()
{
        Read the month and year of today from system.
        Store the month and year into $monthOfToday and $yearOfToday respectively.
}
```

#### 3.1.2. Picking the appointment date

3.1.2.1. The client chooses the appointment date by click on the calendar day.

#### 3.1.3. Selecting the appointment time

3.1.3.1. Once the client has selected the appointment date, the web will prompt to a new screen for select the time, entering personal information, and submitting new Assignment.

```
Function pickedOfficeHourDate()
{
      Display "Dr. Fred's Appointment Calendar"
      Display "Select New Appointment Time for "
      Display the picked date "Tuesday, August 10, 2012"
      Call Function ScheduledAppointmentTime()
      If time slot existed
             Display a cross existed time to the calendar
      If time slot doesn't existed
             Display radio button next to the free time
      // Wait for client to select time slot from the radio buttons...
      If click on the radio button
             Store the time slot into $tempTime
      // If the client select Select Different Appointment Day button
      If Select Different Appointment Date
             Call Function DisplayClientHome()
      // Wait for client to input all personal information
      // Wait for client to click on the Submit new Appointment button
      Check fields Name, Address, City, Phone, Email and Purpose of visit
      should only contains characters ('A' - 'Z', 'a' - 'z', '', '/', '-', '_',
      ',', '.', '@') or numbers (0-9)
      If any field violate requirement or empty
             Call Function personalInfoFieldError()
      If ZipCode violate requirement or empty
             Call Function zipCodeError()
      Leave the corrected input information in the field
      Call Function submitNewAppointment()
}
Function scheduleAppointmentTime()
{
      Search for the picked date and store all the time into $ScheduledDate
}
Function personalInfoFieldError()
{
      Display "Name, Address, City, Phone, Email and Purpose of visit should
      only contain characters ('A' - 'Z', 'a' - 'z', '', '/', '-', '_', ',',
      (.', '@') or numbers (0-9)."
}
Function zipCodeError()
{
      Display "Zip code should only contain numbers (0-9).
}
Function SubmitNewAppointment()
{
      Create a new $date array for storing all the new appointment date, time
      and personal information
      Display "Thank you for making appointment, "
      Display $newName
      Display "Your appointment date and time is: "
      Display $newDate and $newTime
```

# 3.2 Administrator Interface

3.2.1. When the administrator accesses the application website, a login page will appear.

```
The application calls Function DisplayAdminHome()
Function DisplayAdminHome()
{
      Display "Login ID: "
      Display field for Admin to input Login ID
      Display "Password: "
      Display password field for Admin to input password
      Display Login button
      // Wait for the admin user to click on the Login button or Enter //
      button on keyboard
      Store Login ID as $tempLoginID and password as $tempPassword
      Check the $tempLoginID and password match and existed in the $admins
      If Login ID existed and password correct
             Call Function adminLoginCorrect()
      If Login ID does not existed or password is incorrect
             Call Function adminLoginIncorrect()
}
```

#### 3.3.1. Weekly Appointment Schedule

3.3.1.1. After logging in successfully the web will prompt to the Administrator Appointment Schedule for week page.

```
While admin not click on Logout button
             If admin click on the Edit Selected Appt button
                   Store the selected radio button date and time $tempDate
                   and $tempTime
                   Check and store all the information into the $temp
                   categories
                   Call Function editSelectedAppt()
             If admin click on the Delete Selected Appt button
                   Call Function deleteSelectedAppt()
             If admin click on the Select another Date button
                   Call Function selectAnotherDate()
      Call Function logout()
}
Function adminLoginIncorrect()
{
      Display "Your Login ID does not exist or password is incorrect."
}
Function editSelectedAppt()
      Display "Dr. Fred's Appointment Calendar"
      Display Update Appointment for $tempDate $tempTime
      Display "Name:"
      Display $tempName
      Display "Address:"
      Display $tempAddress
      Display "City/State:"
      Display $tempCityState
      Display "ZipCode:"
      Display $tempZipCode
      Display "Phone:"
      Display $tempPhone
      Display "Email:"
      Display blank
      If $tempEmail existed
             Display $tempEmail
      Display "Purpose of Visit?"
      Display $tempPurposeOfVisit
      If $tempNewPatient = Yes
             Display Check box button with check
      If $tempNewPatient = No
             Display Check box button without check
      Display "Comments"
      // Let admin to input comments
      Display multiple-field for comments
      Display Update Appointment button
             If admin click Update Appointment button
                   Call Function updateAppt()
      Display Select another date button
```

```
If admin click Select another date button
                   Call Function selectAnotherDate()
      Display Logout button
             If admin click Logout button
                   Call Function logout()
}
Function deleteSelectedAppt()
{
      Delete the selected appointment from the array
      // The previous selected appointment will appear with a radio button
      only with no client name beside it
      Call Function adminLoginCorrect()
}
Function selectAnotherDate()
      // Wait for the admin to click on new radio button
      If admin click on the new radio button in the calendar
      Copy all the information of the client to $temp cat orgies and create
      new array for the new appointment time
      Store all the information back to the new array appointment time
      Delete the old array
      Call Function adminLoginCorrect()
}
Function logout()
{
      Display "You have logged out the system."
}
Function updateAppt()
      Store back the $temp categories into the array
      Call adminLoginCorrect()
}
```