Kovid BioAnalytics

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Abstract

This document provides the technical guidance for the programmers to understand the coding functionality of the F2F OpenEMR.

Technical document

F2F OpenEMR

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# Adding Care Teams Tab In Demographics

## Created Table in Database:

CREATE TABLE patient\_care\_teams (

id int(10) NOT NULL AUTO\_INCREMENT,

patient\_id int(11) DEFAULT NULL,

service varchar(100) DEFAULT NULL,

name varchar(100) DEFAULT NULL,

address longtext,

email varchar(50) DEFAULT NULL,

phone varchar(15) DEFAULT NULL,

start\_date varchar(25) DEFAULT NULL,

end\_date varchar(25) DEFAULT NULL,

PRIMARY KEY (id)

)

## UI and Php code for the patient care teams data:

Add the tab for Care teams in patient\_details.php(For view only) and demographics\_full.php (For add and edit).

In the demographics\_full.php the JavaScript is added to delete and add the details dynamically.

*<!-- Adding external JS file in order to call addNewRow for Advocacy Case Notes table -->*

*<script type="text/javascript" src="<?php echo $GLOBALS['webroot']; ?>/library/js/f2f\_custom/custom.js?v=<?php echo $v\_js\_includes; ?>"></script>*

*<script type="text/javascript">*

*//Function to delete pct\_row*

*function delete\_row(delete\_id){*

*if(confirm("Are you sure you want to delete this row?")){*

*$("input[name='delete\_id']").val(delete\_id);*

*$("form").submit();*

*}*

*}*

Necessary comments are provided for the proper understanding of the code.

**Note:** Respective comments are provided on the code pages for the convenience of the programmer.

## Database code for the patient care teams data:

Written the code for add, update and delete the care team’s data in demographics\_save.php.

The demographics\_save.php will call the functions for add, update and delete the data from the patient.inc file.

Functions for add, update and delete are in patients.inc file

function getPatientCareTeamsData($pid)

This function takes the $pid and returns the details in the form of sql result.

function deletePatientCareTeamsById($delete\_id)

This function takes the $delete\_id which is the id in patient\_care\_teams table and delete the record from the table returns the details in the form of sql result.

function insertPatientCareTeamsData($service, $name, $address, $email, $phone, $start\_date, $end\_date, $patient\_id) /\*To Insert and Update\*/

This function inserts the data in the patient\_care\_teams table, if the data is present then it will update the current record accordingly and returns the sql result.

# Adding the API for Care Teams In Demographics

## Writing the API code

Created the following files for APIs in api folder

addPatientCareTeams.php

editPatientCareTeams.php

getPatientCareTeams.php

## Database functions for the APIs

The functions for the add, update and delete in patient.inc file

function getPatientCareTeamsDataAPI($pid)

This function is specially written for get data api it takes the $pid and returns the details in the form of sql result.

Functions to add and update in patient.inc file:

function insertPatientCareTeamsData($service, $name, $address, $email, $phone, $start\_date, $end\_date, $patient\_id)

function updatePatientCareTeamsData($service, $name, $address, $email, $phone, $start\_date, $end\_date, $id)

This function is specially written for update API it takes the above parameters and update records accordingly and returns the sql result.

**Note**: Comments are provided for the same in the respective files.

# Adding Insurance Tab in Summary

## UI and Php code for Insurance tab functionality

Add the html code for tab in patient\_details.php (For view only), demographics\_full.php (For add and edit) and demographics\_save.php for the database functions.

In patient\_details.php the function getPatientInsurance() called to retrieve data from the f2f database for primary, secondary and tertiary insurance respectively and viewed in read-only mode in respective tabs.

In demographics\_full.php the function getPatientInsurance() called to retrieve data from the f2f database for primary, secondary and tertiary insurance respectively in edit mode for user with *Billing* privileges(ACL Group) only and for rest users in read only mode.

The state lists are showed by calling the function getStatesList().

To verify the insurance added the function verifyInsuraceAdded() is called.

The ACL Group of the logged in user is checked by the function acl\_get\_group\_titles().

## Database code for the Insurance data.

The php code for the insurance data is written in demographics\_save.php file.

Code to check whether insurance data is available for the update if yes, then update it into patient\_insurances table.

Query to update insurance details into patient\_insurance table is written.

**Note**: Comments are provided for the same in the respective files.

## Important functions written for insurance data handling

public static function getPatientInsurance($patientId, $type, $status)

getPatientInsurance to get insurance data from patient\_insurance table based on patient\_id and insurance type (i.e P - Primary, S - Secondary, A - Tertiary) and status (i.e Active, Inactive, Deleted) @param int $patientId, String $type, String $status and returns query result.

public static function getStatesList($status)

getStatesList to get the states list with status as Active @param String $status and returns query result.

public static function getPlanByState($state\_id)

getPlanByState to get the plan id from insurance\_plans table based on state\_id @param String $state\_id and returns query result.

Also calling the static function getPlanByState () for ajax response for getting the insurance plans according to the state. It takes the state\_id as parameter.

# Inserting intake form data to OpenEMR database.

Created the following tables for inserting the intake form data into the OpenEMR database.

form\_child\_birth\_history

form\_child\_birth\_history\_other

form\_patient\_medical\_history

form\_patient\_medical\_history\_other

form\_previous\_evaluations

form\_previous\_evaluations\_other\_reason

form\_previous\_evaluations\_documents

form\_hearing\_vision

form\_nutri\_history

form\_nutri\_history\_other

form\_social\_history

form\_home\_env

form\_home\_env\_others\_in\_home

form\_development\_schooling\_other

form\_parenting

form\_development

form\_lifestyle

form\_education

form\_therapies

form\_alternative\_therapies

form\_surgical\_history

form\_surgical\_history\_other

form\_dental\_history

form\_family\_history

form\_family\_history\_other

The above tables are for the various sections of the patient intake form (can be easily guessed from their name).

The table names ending by \_other are the tables which contains the ‘other add more’ field of the respective section.

The id of the tables is the primary key and the id of the parent table is foreign key in respective \_other table

## Database functions written in patient.inc

function fetchIdFromListId() : Function fetching list id from record id, returns the list id from the table name passed.

function is\_column\_exists() : Function to check whether the column exist in the table name passed. Returns True if exist and false if vice versa.

function add\_intake\_form\_details() : Function to insert the form data in array into the specified table and returns id. **Note**: This function adds the all form data in specified table except the data from ‘OTHER ADD MORE’ fields.

function add\_family\_history\_other() : Function to add the ‘other add more field ’ data of Family history section into the database.

function get\_table\_id() : Function to get the id from the respective table, of specified record.

function edit\_intake\_form\_details() : Function to update intake form details into specified table based on id.

function delete\_other\_records() : Function to delete records from table.

function add\_surgical\_history\_other() : Function to insert surgical history other details.

function add\_previous\_evalution\_other() : Function to insert previous evaluation history other details in the table.

function add\_home\_env\_others\_in\_home() : Function to insert home environment other in home details.

function add\_development\_schooling\_other() : Function to insert development & schooling other details.

function add\_nutririon\_history\_other() : Function to insert nutrition history other details.

function add\_child\_birth\_history\_other() : Function to insert child birth history other details.

function add\_form\_patient\_medical\_history\_other() : Function to insert form patient medical history other details.

**Note:** Detailed comments are provided regarding the parameter and the returns values in the file.

## PHP Code for intake form data.

The php code for inserting, updating and deleting the patient intake form data is written in following files respectively.

1. dental.php

**Location**:

\interface\patient\_file\summary\dental.php

In this file the add and edit form data code is written. Following functions are called to perform the add and edit.

Function get\_table\_id()

Function edit\_intake\_form\_details()

Function add\_intake\_form\_details()

Database tables used are: form\_dental\_history

**Note**: Detailed comments are written in the code for better understanding.

1. family\_history.php

Location:

\interface\patient\_file\summary\family\_history.php

In this file the add and edit form data code is written. Following functions are called to perform the add and edit.

Function get\_table\_id()

Function edit\_intake\_form\_details()

Function add\_intake\_form\_details()

Function add\_family\_history\_other()

Function delete\_other\_records()

Database tables used are:

form\_family\_history, form\_family\_history\_other

**Note**: Detailed comments are written in the code for better understanding.

1. surgery.php

Location:

\interface\patient\_file\summary\surgery.php

In this file the add and edit form data code is written. Following functions are called to perform the add and edit.

Function get\_table\_id()

Function edit\_intake\_form\_details()

Function add\_intake\_form\_details()

Function add\_surgical\_history\_other()

Function delete\_other\_records()

Database tables used are:

form\_surgical\_history, form\_surgical\_history\_other

**Note**: Detailed comments are written in the code for better understanding.

1. developmental\_school.php

Location:

\interface\patient\_file\summary\ developmental\_school.php

In this file the add and edit form data code is written. Following functions are called to perform the add and edit.

Function get\_table\_id()

Function edit\_intake\_form\_details()

Function add\_intake\_form\_details()

Function delete\_other\_records()

Function add\_development\_schooling\_other()

Database tables used are:

form\_home\_env, form\_parenting, form\_development, form\_lifestyle, form\_education, form\_therapies, form\_alternative\_therapies, form\_development\_schooling\_other, form\_home\_env\_others\_in\_home.

**Note**: Detailed comments are written in the code for better understanding.

1. nutrition.php

Location:

\interface\patient\_file\summary\ nutrition.php

In this file the add and edit form data code is written. Following functions are called to perform the add and edit.

Function get\_table\_id()

Function edit\_intake\_form\_details()

Function add\_intake\_form\_details()

Function delete\_other\_records()

Function add\_nutririon\_history\_other ()

Database tables used are:

form\_nutri\_history, form\_nutri\_history\_other

**Note**: Detailed comments are written in the code for better understanding.

1. medical\_problem.php

Location:

\interface\patient\_file\summary\ medical\_problem.php

In this file the add and edit form data code is written. Following functions are called to perform the add and edit.

Function get\_table\_id()

Function edit\_intake\_form\_details()

Function add\_intake\_form\_details()

Function delete\_other\_records()

Function add\_previous\_evalution\_other()

Function add\_child\_birth\_history\_other()

Function add\_form\_patient\_medical\_history\_other()

Database tables used:

form\_previous\_evaluations, form\_previous\_evaluations\_other\_reason, form\_hearing\_vision, form\_child\_birth\_history, form\_child\_birth\_history\_other, form\_patient\_medical\_history

**Note**: Detailed comments are written in the code for better understanding.

**Note** : In all the files the

if($\_POST){

Initialize the variables;

Fetch !empty($\_POST['form\_record\_id']

If(!empty($\_POST['form\_record\_id'])){

Perform the update or edit data operations;

}

else{

perform the insert or add data operations;

}

}