SYNITECH
OpenEMR

Developer Documentation Series
Part 2: Function Specification

Directory Structure: `interface/`
`library/`

Directory Specification:
`interface` contains files specific to the user interface of OpenEMR.
`library` contains files specific to the database and backed of OpenEMR

File Specification: `library`

File Name	Description
`auth.inc`	User authorization functions
`sql.inc`	SQL functions
`lists.inc`	List functions
`transactions.inc`	Transaction functions
`pnotes.inc`	Patient note functions
`onotes.inc`	Office note functions
`forms.inc`	Form functions
`billing.inc`	Billing functions
`log.inc`	OpenEMR internal logging functions
`patient.inc`	Demographics functions
`report.inc`	Reporting functions
`encounter.inc`	Encounter session variable functions
`pid.inc`	PID session variable functions

File Specification: `interface`

Directory	Description
`forms/`	Physician forms
`login/`	Login screen
`main/`	Main screens
`new/`	Creating new patients
`patient_file/`	Patient files
`pic/`	Images
`setup/`	OpenEMR setup

Function Specification: `library`

`auth.inc`

Function	Description
`boolean authNewSession($username, $password, $provider)`	`$username` is the username, `$password` is an MD5 hash of the password, and `$provider` is the user's provider. Sets session variables `$authUser, $authPass, $authProvider, $authId`.
`boolean authCheckSession()`	Checks to see if the session cookie is valid.
`authCloseSession()`	Destroys current session.
`authLoginScreen()`	`include()`s a `.js` file, then `login.inc`, then `die()`s.
`$uid addUser($username, $password, $info, $authorized)`	`$password` is an MD5 hash of the password, `$info` is information about the user, `$authorized` is default yes.
`delUser($id)`	Deletes user with id `$id`.
`changePassword($id, $password)`	Changes password of user with id `$id` to password `$password`. `$password` is an MD5 hash of the password.
`$array getUserList($cols, $limit, $start)`	Returns a nested array of the user information, specified by `$cols`. `$cols` is default *, `$limit` is default all and $start is default 0.
`$array getProviderList($cols, $limit, $start)`	Returns a nested array of the provider information, specified by `$cols`. `$cols` is default *, `$limit` is default all and $start is default 0.
`$id addGroup($groupname)`	Adds the group `$groupname` to the system, returns the group ID.
`delGroup($groupname)`	Deletes the group `$groupname` from the system.

`sql.inc`

Function	Description
`$handle sqlConnect()`	Connects to `localhost`, username `openemr`, database `synitech`. Returns the handle.
`$string sqlStatement($statement)`	Returns the query result of the SQL statement `$statement`.
`$value sqlClose()`	Returns what `mysql_close()` returns.
`$string sqlInsert($statement)`	Returns the last inserted ID after running `$statement`.
`$array sqlFetchArray($resource)`	Returns the result of the current `mysql_fetch_array()`.
`$string sqlQuery($statement)`	Returns the first result from the query `$statement`.

```
lists.inc
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Function	Description
`$record getListById($id, $cols)`	Returns the first record returned, the most recent. `$cols` is default *.
`$array getListByType($pid, $cols, $active, $limit, $offset)`	Returns a multi-dimensional array of the data. `$cols` is default *, `$active` is default all, `$limit` is default all, `$offset` is default 0.
`$id addList($pid, $type, $title, $comments, $activity)`	Returns the ID generated by the insert of the data. `$activity` is default active.
`disappearList($id)`	Changes the activity state to inactive of the entry with id `$id`.
`reappearList($id)`	Changes the activity state to active of the entry with id `$id`.

```
transactions.inc
```

Function	Description
`$record getTransById($id, $cols)`	Returns the first record, the most recent. `$cols` is default *.
`$array getTransByPid($pid, $cols)`	Returns a multi-dimensional array of the record. `$cols` is default *.
`$id newTransaction($pid, $body, $title, $authorized)`	Returns the ID of the inserted data. `$authorized` is default 0.
`authorizeTransaction($id, $authorized)`	Changes authorization state of transaction with id `$id`. `$authorized` is default 1.

```
pnotes.inc
```

Function	Description
`$record getByPnoteId($id, $cols)`	Returns the first record returned, the most recent. `$cols` is default *.
`$array getPnotesByDate($date, $activity, $cols, $pid, $limit, $start)`	Returns a multi-dimensional array of record lines returned. `$activity` is default 1, `$cols` is default *, `$pid` is default %, `$limit` is default all, `$start` is default 0.
`$id addPnote($pid, $body, $authorized, $activity)`	Adds a patient note for patient with ID `$pid`. `$authorized` is default 0, `$activity` is default 1.
`authorizePnote($id, $authorized)`	Changes authorization state of the pnote with id `$id`. `$authorized` is default 1.
`disappearPnote($id)`	Changes activity state of pnote with id `$id` to 0.
`reappearPnote($id)`	Changes activity state of pnote with id `$id` to 1.
`$array getPnotesByPid($pid, $activity, $cols, $limit, $start)`	Returns a multi-dimensional array of record lines returned. `$activity` is default 1, `$cols` is default *, `$limit` is default 10, `$start` is default 0.

onotes.inc

Function	Description
`$record getOnoteById($id, $cols)`	Returns the first record returned, the most recent. `$cols` is default *.
`$array getOnoteByDate($date, $activity, $cols, $limit, $offset)`	Returns a multi-dimensional array of the record lines returned. `$activity` is default 1, `$cols` is default *, `$limit` is default all, `$offset` is default 0.
`$id addOnote($body, $activity)`	Returns the ID of the added onote. `$activity` is default 1.
`disappearOnote($id)`	Sets activity state of the onote with id `$id` to 0.
`reappearOnote($id)`	Sets activity state of the onote with id `$id` to 1.

forms.inc

Function	Description
`$form getFormById($id, $cols)`	Returns the form specified by `$id`. `$cols` is default *.
`$form getFormByEncounter($pid, $encounter, $cols)`	Returns forms matching `$encounter`. `$cols` is default "form_id, form_name".
`$id addForm($encounter, $form_name, $form_id, $formdir, $pid, $authorized)`	Adds a form, where `$formdir` is the form directory. `$authorized` is default 0.
`authorizeForm($id, $authorized)`	Changes the authorized state of the form with id `$id`. `$authorized` is default 1.
`$array getEncounters($pid)`	Returns an array of all encounters filed under a given pid, in order by date descending.
`$form getFormsByPID($pid, $cols)`	Returns form with specified pid. `$cols` is default *.

billing.inc

Function	Description
`$record getBillingById($id, $cols)`	Returns a billing record with id `$id`. `$cols` is default *.
`$record getBillingByPid($pid, $cols)`	Returns a billing record with pid `$pid`. `$cols` is default *.
`$array getBillingByEncounter($pid, $encounter, $cols)`	Returns a multi-dimensional array of records matching encounter `$encounter`. `$cols` is default "code_type, code, code_text"
`$id addBilling($encounter, $code_type, $code, $code_text, $pid, $authorized)`	Adds a billing entry with values, returns id. `$authorized` is default 0.
`authorizeBilling($id, $authorized)`	Changes the authorized state of the billing entry. `$authorized` is default 1.
`deleteBilling($id)`	Changes activity state of billing entry to 0.

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log.inc
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Function	Description
`newEvent($event, $user, $groupname, $comment)`	Makes a new event in the event log. `$event` can be `login`, `logout`, `backup`, or `view`. `$comment` is default `""`.
`$array getEventByDate($date, $cols)`	Returns a nested array of results. `$cols` is default `*`.

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patient.inc
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Function	Description
`$pid newPatientData($title, $fname, $lname, $mname, $sex, $DOB, $street, $postal_code, $city, $state, $country_code, $ss, $occupation, $phone_home, $phone_biz, $phone_contact, $contact_relationship, $pid)`	Creates new patient data specified. Returns the generated pid. `$pid` is default `MAX(pid)+1`.
`$id newEmployerData($pid, $name, $street, $postal_code, $city, $state, $country)`	Returns generated ID from insert. All variables are default `""`.
`$id newInsuranceData($pid, $type, $provider, $policy_number, $group_number, $subscriber, $subscriber_relationship, $subscriber_ss, $subscriber_DOB, $subscriber_street, $subscriber_postal_code, $subscriber_city, $subscriber_state, $subscriber_country, $subscriber_employer, $subscriber_employer_street, $subscriber_employer_postal_code, $subscriber_employer_state, $subscriber_employer_state, $subscriber_employer_country, $copay)`	Returns ID generated from insert. All variables are default `""`.
`$id newHistoryData($pid, $coffee, $tobacco, $alcohol, $sleep_patterns, $seatbelt_use, $counseling, $hazardous_activities, $last_breast_exam, $last_mammogram, $last_gynocological_exam, $last_rectal_exam, $last_prostate_exam, $last_physical_exam, $last_sigmoidoscopy_colonoscopy, $history_mother, $history_father, $history_siblings, $history_offspring, $history_spouse, $relatives_cancer, $relatives_tuberculosis, $relatives_diabetes, $relatives_high_blood_pressure, $relatives_heart_problems, $relatives_stroke, $relatives_epilepsy,`	Returns ID generated from insert. All variables are default `""`.

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$relatives_mental_illness,
$relatives_suicide, $cataract_surgery,
$tonsillectomy, $cholecystestomy,
$heart_surgery, $hysterectomy,
$hernia_repair, $hip_replacement)
```

Function	Description
`$id updatePatientData($pid, $array)`	Updates patient data with id `$pid`, `$array` is in the form `$passed['colname'] = "value"`.
`$id updateEmployerData($pid, $array)`	Updates employer data with id `$pid`, `$array` is in the form `$passed['colname'] = "value"`.
`$id updateHistoryData($pid, $array)`	Updates history data with id `$pid`, `$array` is in the form `$passed['colname'] = "value"`.
`$array getPatientData($pid, $cols)`	Returns array of columns specified by `$cols` and `$pid`. `$cols` is default *.
`$array getHistoryData($pid, $cols)`	Returns array of columns specified by `$cols` and `$pid`. `$cols` is default *.
`$array getInsuranceData($pid, $type, $cols)`	Returns array of columns specified by `$cols` and `$pid`. `$cols` is default *. `$type` is default primary.
`$array getEmployerData($pid, $cols)`	Returns array of columns specified by `$cols` and `$pid`. `$cols` is default *.
`$array getPatientLnames($lname, $cols, $orderby, $limit, $start)`	Return array of columns specified by given last name. `$cols` is default "pid, lname, fname, mname, id". `$orderby` is default "lname ASC", `$limit` is default all, `$start` is default 0.
`$array getPatientIds($cols, $orderby, $limit, $start)`	Returns an array of specified columns of all unique pids. `$cols` is default "pid, id, lname, fname, mname". `$orderby` is default "id ASC", `$limit` is default all, `$start` is default 0.

report.inc

Function	Description
`$array getPatientReport($pid)`	Returns a nested array of column name containing "content" at time of change and "date"
`$array getEmployeeReport($pid)`	Returns a nested array of column name containing "content" at time of change and "date"
`$array getHistoryReport($pid)`	Returns a nested array of column name containing "content" at time of change and "date"
`$array getInsuranceReport($pid, $type)`	Returns a nested array of column name containing "content" at time of change and "date"

`encounter.inc`

Function	Description
`setEncounter($encounter)`	Sets the global session variable. If `$encounter` is "", then it creates an entry in the forms table to represent a blank encounter.

`pid.inc`

Function	Description
`setPid($pid)`	Sets the global pid session variable.