EMRge User Documentation

1. GENERAL

1.1 Login

When the app starts, it will first prompt for employee ID and password on the login screen.

Upon valid login, the main form is opened.

1.2 Viewing Dashboard

On first launch, the dashboard is displayed showing summary stats.

Navigating Modules

The left sidebar has buttons to navigate between modules like Patients, Examination etc.

Clicking a module button will open the respective form as the main content area.

1.3 Managing Modules

Each module form has its own interface and workflows for managing data and records.

Refer to their specific guides on how to use them.

1.4 Navigation Rules

- Only one module's form can be open at once.
- Clicking a new module button will close any open form and open the new one.
- The top toolbar shows the logged in employee ID.

1.5 Logout

To logout, click the "Logout" button at bottom of sidebar.

This will close the main form and return to the login screen.

1.6 Access Restrictions

Based on employee role, they may get "Access Denied" if trying to open an unauthorized module.

Only users with required credentials can access those restricted modules.

2. Patient Module

2.1 Viewing Patient Lists

When you open the FormPatients, you will see two data grid views - one for out-patients and one for in-patients. These provide a tabular view of patient records.

You can scroll through the list to view details like patient ID, name, age, gender etc. The columns and data will depend on how the Patient class manages the information.

2.2 Opening Patient Details

To see more details on a patient, double click on the patient row in either of the data grids. This will open the FormPatientInfo for that patient.

Here you will see all the information stored for that patient like personal details, health stats, emergency contacts etc.

2.3 Searching for a Patient

To search for a patient by ID, type in the ID in the Search By ID textbox and click "Search". If found, the patient details will open.

You can also search by phone number using the Search By Phone No textbox and button.

This is useful when you want to directly lookup a patient record.

2.4 Adding a New Patient

To add information for a new patient, click the "Add Patient" button. This will open the FormAddPatient.

In the add patient form, fill in all the details like name, contact info, health stats etc. and click "Add Patient".

This will save the new patient record and close the form.

You will now be able to see the new patient in the data grid views.

2.5 Refreshing Data

If you make any changes like adding or editing patients, click the "Refresh" button to reload the latest data into the data grids.

This will retrieve updated information from the database and display it.

3. Examination Module

3.1 Viewing Examination Queue

When you open the form, the DGVExaminationQueue grid will display a list of pending examination records. Each row represents a patient waiting for examination.

Review the list to see how many patients are waiting and their details. You can scroll through the list.

3.2 Starting an Examination

To begin examination for a patient, double click on their record in the DGVExaminationQueue grid.

This will select that record and display the details at the top. It will also load any existing lab tests and prescribed medications.

You are now ready to proceed with the examination for this patient.

3.3 Ordering Lab Tests

Click the "Add Lab Test" button to open the form to add a new lab test order.

Select the type of test, remarks and submit the form. This will add a new user control item in the Lab Tests panel displaying the test details.

Repeat this process to order multiple lab tests for the patient.

3.4 Prescribing Medications

Click the "Add Medication" button to open the form to prescribe a new medication.

Select the medication name, dosage, remarks and submit. This will add a user control item to the Medications panel.

Repeat to prescribe multiple medications as needed.

3.5 Entering Diagnosis

In the "Diagnosis" text box, type the diagnosis remarks after examining the patient.

3.6 Completing Examination

Once all tests are ordered, medications prescribed and diagnosis entered, click the "Complete Examination" button.

This will save the diagnosis, mark examination as completed, and show a confirmation message.

The record will now disappear from the examination queue.

3.7 Viewing Patient Information

At any point, you can click the "Patient Info" button to open the detailed patient record form.

3.8 Reloading Queue

Click the "Refresh" button to reload the examination queue with updated list of pending records.

This allows you to easily navigate through the entire examination workflow.

4. Laboratory Module

4.1 Viewing Laboratory Test Queue

When you open the form, the DGVLaboratoryQueue grid will display a list of pending lab tests.

Each row represents a test order placed by a physician for a patient.

Review the list to see number of tests pending and their details like date, test type etc. You can scroll through the list.

4.2 Selecting a Test

To enter results for a test, double click its record in the DGVLaboratoryQueue grid.

This will select that test record and display the details at top.

The results textbox will be empty to enter the new result.

4.3 Entering Results

In the "Results" textbox, enter the lab test results after performing the test.

You can type numeric values, remarks, readings etc. depending on the test type.

4.4 Submitting Results

Once the test result has been entered in the textbox, click the "Submit Results" button.

This will save the entered result, mark test as completed in database, and show a confirmation message.

The record will disappear from the pending tests queue after this.

4.5 Viewing Patient Information

At any point, you can click the "Patient Info" button to open the detailed patient record form.

4.6 Reloading Queue

Click the "Refresh" button to reload the test queue with updated list of pending tests.

Removed/completed tests will disappear and newly placed test orders will appear after refreshing.

So in summary, the key workflow is View > Select Test > Enter Result > Submit Result > Refresh Queue. This allows efficient management of lab tests.

5. Staff Module

5.1 Viewing Employee List

When you open the form, the DGVEmployees grid will display the list of all employees.

You can scroll through the list to view details like employee ID, name, department, salary etc. in a tabular format.

5.2 Searching Employees

To search for employees, enter keywords in the "Search Employees" textbox and click "Refresh".

This will filter the employee list based on your search keyword.

5.3 Filtering

You can filter by department and branch using the dropdowns and specify minimum or maximum salary filters.

Select the filters and click "Refresh" to apply them to the employee list.

5.4 Sorting

Select the "Sort by" radio buttons to sort employees by ID, Name, Salary or Department.

Check the "Ascending/Descending" toggle to change sort order.

5.5 Resetting Filters

Click "Reset Filters" to clear all applied filters, search, sort settings.

This will retrieve the full default employee list.

5.6 Viewing Employee Details

To see details of an employee, double click on their record in the DGVEmployees grid.

This will open the FormEmployeeInfo form displaying all details for that employee.

5.7 Adding New Employee

Click the "Add Employee" button to open the form to add details for a new employee.

Enter the details and click "Add" to save the new employee record.

The new employee will now appear in the list upon refreshing.

6. Billing Module

6.1 Searching for Patient

To generate bills for a patient, first search for them using either their ID or Phone Number in the respective search boxes.

Click the "Search" button. If patient is found, their outstanding bills will load.

6.2 Viewing Bills

The unpaid bills for the selected patient will be displayed in the Bills panel as individual entries with bill number, service type and price.

The total outstanding amount is shown at the bottom.

Review the bills to verify accuracy.

6.3 Marking as Paid

Once bills are verified, click the "Mark as Paid" button.

This will update the status for all outstanding bills for that patient as paid in the database.

A confirmation message will appear.

The Bills panel will now be empty as there are no more outstanding bills.

6.4 New Search

To generate bills for another patient, enter their ID/Phone and click Search again.

Their bills will be loaded if found.

6.5 Errors

If any error occurs at any point, an error message will be displayed.