

User Manual for CollabDDS Online Radiological Services (CORS)

PROJECT MANAGEMENT UNIT AT NRC

National Informatics Centre

Ministry of Electronics and Information Technology | Government of India

Contents

High Level Workflow in CORS.....	3
Instructions to PMU at NRC.....	5
Steps for logging into CORS.....	5
Hospital Management.....	7
Addition of Hospitals (NRC, RRC, DH, CHC, PHC).....	7
Updating/Viewing of Hospitals (NRC, RRC, DH, CHC, PHC).....	10
Addition of Department	12
Addition of Designation	13
Addition of Domain.....	14
Addition of Modality.....	15
Users.....	16
User Registration	17
User Management	18
Escalation.....	20
Report	21
Audit Trail	23
Steps for managing profile and logging out from CORS	24
Instructions to Reset Password	26

Document Revision History Table

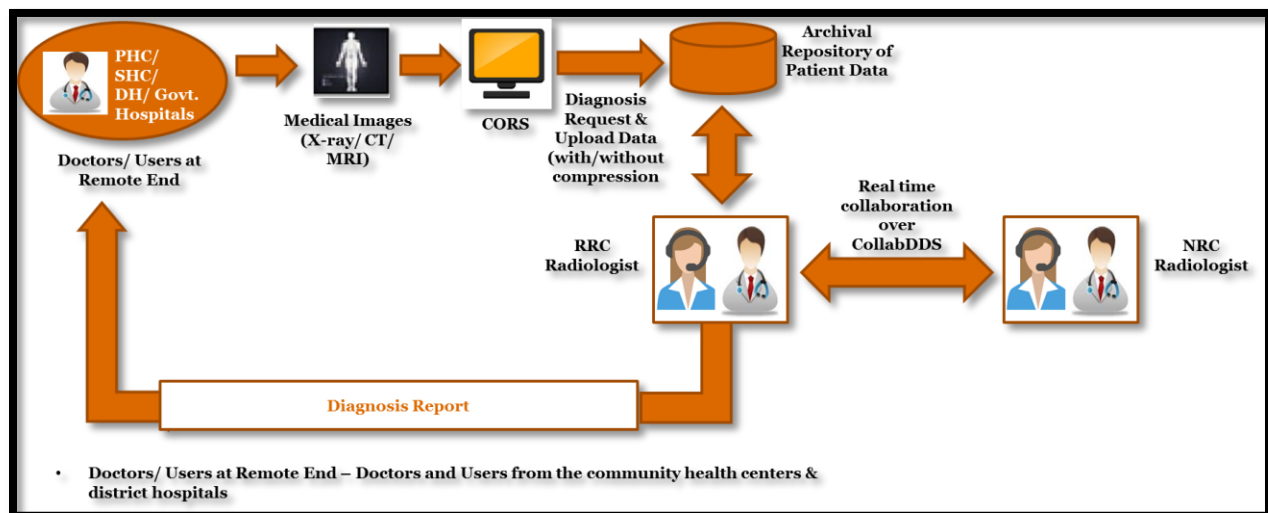
S No.	Version	Initiated/Revision Date	Revision Description, if any
1	1.0	06-04-2018	
2	2.0	26-07-2018	

High Level Workflow in CORS

Scenario 1: Each End user (District Hospital/CHC/PHC) would be mapped to corresponding RRCs. End User needs to upload cases and it will be automatically assigned to corresponding RRC. The radiologist at RRC would review the diagnosis and upload report for the case.

Scenario 2: If Radiologist at RRC wants to discuss some complex case with the Radiologist at NRC, then he/she can forward the case to NRC for further collaborative discussion using CollabDDS. The Radiologist would then generate/upload the report for the case which is available to end user.

Scenario 3: Escalation of cases by PMU from RRC to NRC in case there is an overload of cases or Radiologist is on leave.



Activities and Responsibilities of PMU

Managerial Responsibilities

- End to end program management
- Review of project progress
- Conducting sessions
- Maintaining Session Records
- Monitoring Performance of RRCs and NRC
- Call center setup
- Maintaining issue register
- Providing Support for Application/ Network/ Hardware
- Defining severity of issues reported
- Forwarding CORS/CollabDDS related issues (enhancement and bug fixes) to NIC
- Project Management Documentation (WPR & MPR)

CORS Application Responsibilities

- User & Hospital Registration and Management
- Master Data updation for Departments, Domains, Modality etc
- Escalation (Manual/Automatic)
- Reporting Functionality
- Audit Trail

Instructions to PMU at NRC

Steps for logging into CORS

Logging into CORS – User needs to enter username and password provided to him/her.



The screenshot shows a login form with the following elements:

- Username input field
- Password input field
- Captcha image showing the characters 'mep6p' with a cursor pointing to the 'p'
- Captcha input field
- Refresh Image button with a circular arrow icon
- Login button
- Forgot Password? link

Home Page – The dashboard displays the number of registered hospitals, cases and doctors. The page will also depict the case details by domain, modality and status. Also case details by status from RRC and NRC point of view will also be shown.

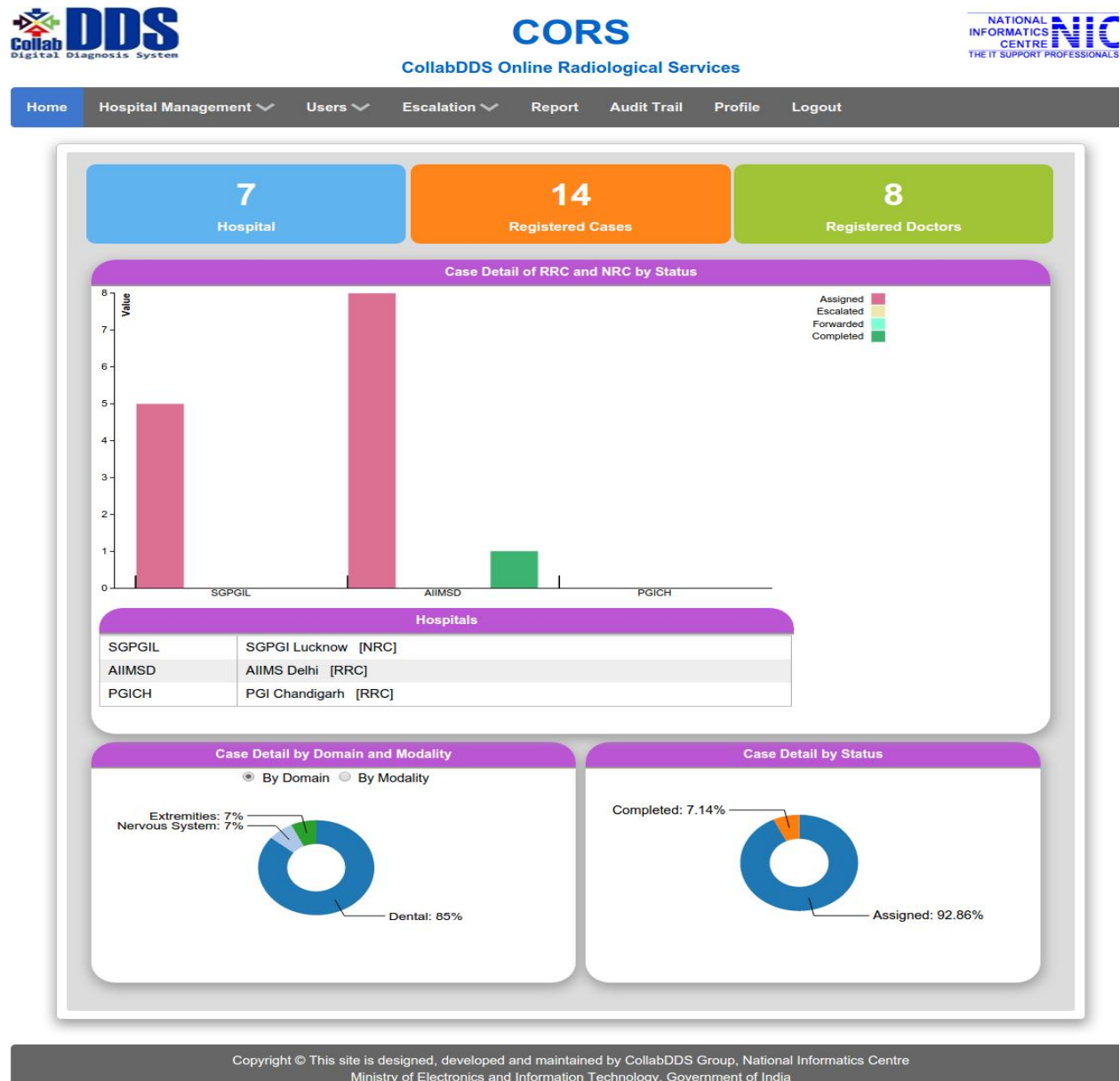


Figure 2: Dashboard for PMU at NRC

Hospital Management

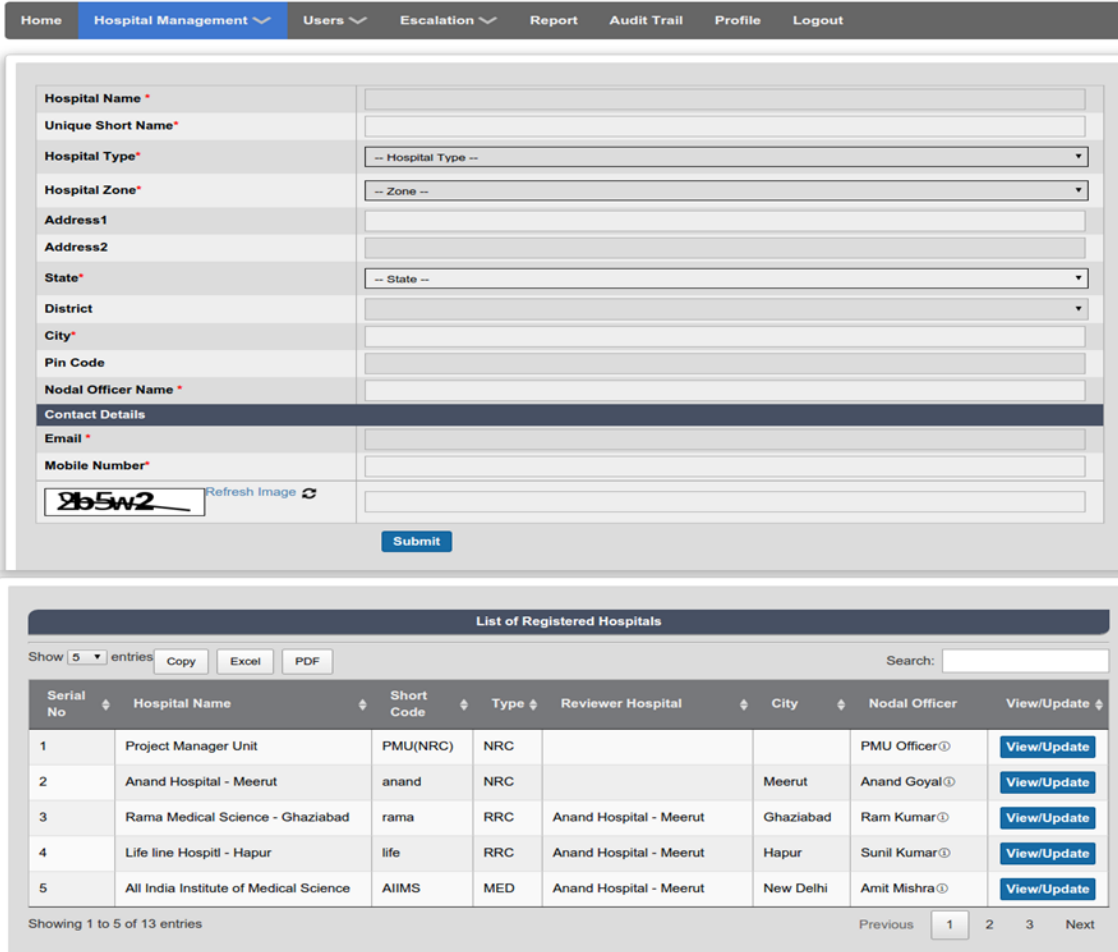
One of the responsibilities of PMU is to manage the list of hospitals in the application. Hospital Management link comprises of Hospital, Department, Designation, Domain and Modality.



Figure 3: Hospital Management

Addition of Hospitals (NRC, RRC, DH, CHC, PHC)

Step I On selecting “Hospital” from the drop down list of Hospital Management, below screen will be shown to the PMU wherein details of the hospitals can be added. Hospital Type will have 6 categories- NRC, RRC, DH (District Hospital), CHC (Community Health Centre) and PHC (Primary Health Centre). On submission, hospital will be registered in the application. List of previously registered hospitals is also shown on the page.



The screenshot displays the 'Hospital Management' section of the CORS application. The top navigation bar includes links for Home, Hospital Management, Users, Escalation, Report, Audit Trail, Profile, and Logout. The main form contains the following fields:

- Hospital Name *
- Unique Short Name*
- Hospital Type* (Dropdown menu: -- Hospital Type --)
- Hospital Zone* (Dropdown menu: -- Zone --)
- Address1
- Address2
- State* (Dropdown menu: -- State --)
- District (Dropdown menu)
- City*
- Pin Code
- Nodal Officer Name *
- Contact Details section:
 - Email *
 - Mobile Number*
 - Captcha: 2b5w2 (with Refresh Image button)
- Submit button

Below the form is a 'List of Registered Hospitals' table with the following data:

Serial No	Hospital Name	Short Code	Type	Reviewer Hospital	City	Nodal Officer	View/Update
1	Project Manager Unit	PMU(NRC)	NRC			PMU Officer	View/Update
2	Anand Hospital - Meerut	anand	NRC		Meerut	Anand Goyal	View/Update
3	Rama Medical Science - Ghaziabad	rama	RRC	Anand Hospital - Meerut	Ghaziabad	Ram Kumar	View/Update
4	Life line Hospitl - Hapur	life	RRC	Anand Hospital - Meerut	Hapur	Sunil Kumar	View/Update
5	All India Institute of Medical Science	AIIMS	MED	Anand Hospital - Meerut	New Delhi	Amit Mishra	View/Update

Showing 1 to 5 of 13 entries. Page navigation: Previous 1 2 3 Next

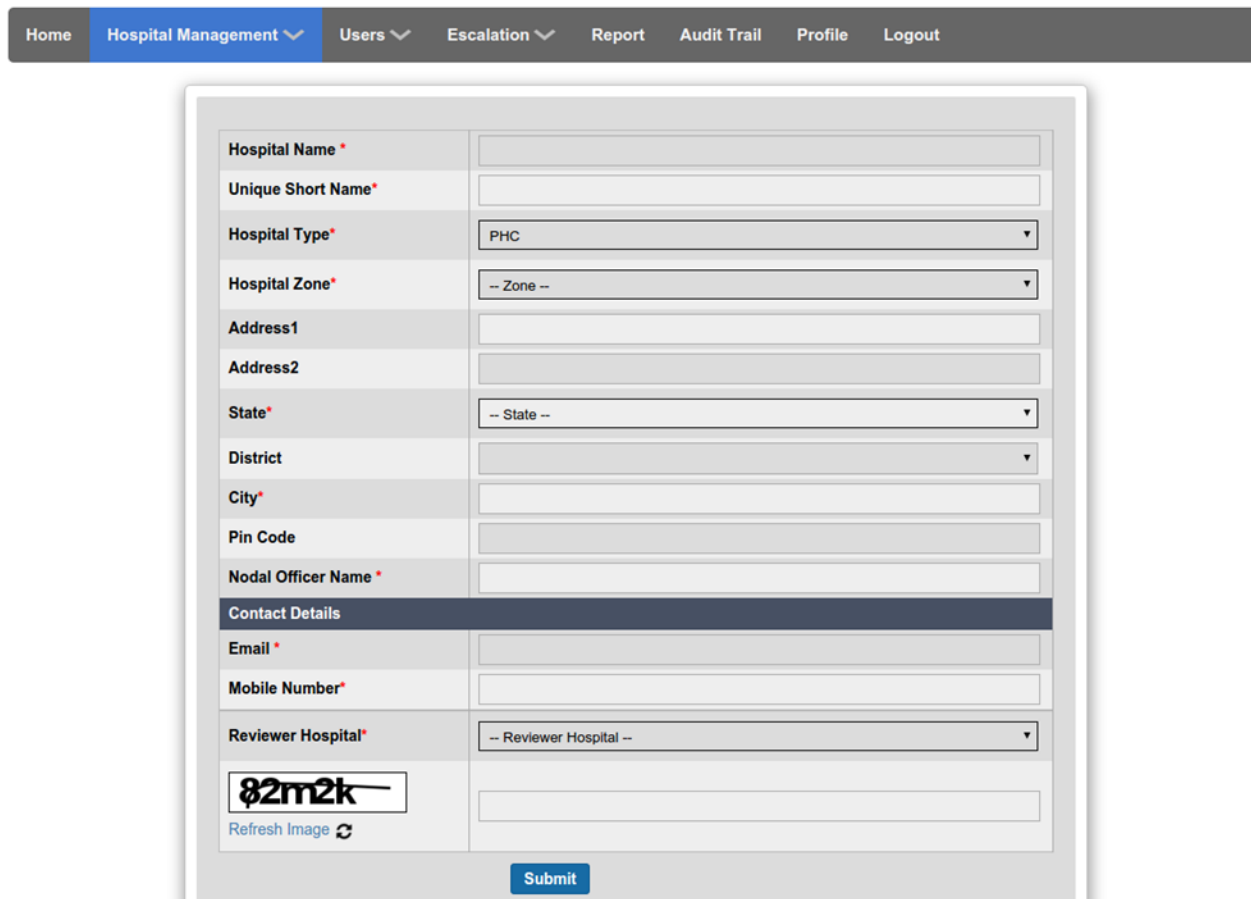
Figure 4: Addition of Hospitals

User Manual for CORS- PMU

Step II On selection of RRC, DH, CHC or PHC, a new field- “Reviewer Hospital” opens up, wherein following options are present.

- In case of RRC, “Reviewer Hospital” field will consist of NRC only.
- In case of DH/CHC/PHC, “Reviewer Hospital” field will consist of NRC and RRC

If the PMU selects “NRC”, then “Reviewer Field” will not be opened up since NRC is at the apex level.



The screenshot displays the 'Hospital Management' form in the CORS PMU interface. The form includes the following fields and options:

- Hospital Name ***: Text input field.
- Unique Short Name ***: Text input field.
- Hospital Type ***: Dropdown menu with 'PHC' selected.
- Hospital Zone ***: Dropdown menu with '-- Zone --' selected.
- Address1**: Text input field.
- Address2**: Text input field.
- State ***: Dropdown menu with '-- State --' selected.
- District**: Dropdown menu.
- City ***: Text input field.
- Pin Code**: Text input field.
- Nodal Officer Name ***: Text input field.
- Contact Details**: Section header.
- Email ***: Text input field.
- Mobile Number ***: Text input field.
- Reviewer Hospital ***: Dropdown menu with '-- Reviewer Hospital --' selected.
- 82m2k**: CAPTCHA image with a 'Refresh Image' link.
- Submit**: Button at the bottom of the form.

Figure 5: Selection of PHC under “Hospital Type”

User Manual for CORS- PMU

Updating/Viewing of Hospitals (NRC, RRC, DH, CHC, PHC)

Step I On clicking “View/Update” button in List of Registered Hospitals already filled details are shown. PMU has the option to update contact details and list of hospital under that particular hospital, for which details are to be updated.

Home Hospital Management Users Escalation Report Audit Trail Profile Logout

Hospital Name * Project Manager Unit

Unique Short Name * PMU

Hospital Type * NRC

Hospital Zone * NRC

Address1 AIIMS Campus, Ansari Nagar East

Address2


State * Jammu and Kashmir

District Kupwara

City *

Pin Code

Nodal Officer Name * PMU Officer

 Refresh Image

Submit

Update Contact Details

Contact Details

Email c0xxxxxxxxmu@nic.in1

Mobile Number 99xxxxxx99

Update

List of Hospitals Under Selected Hospital

Show 5 entries [Excel](#) Search:

SrNo	Hospital Name	Short Code	Type	City	Nodal Officer
No data available in table					

Showing 0 to 0 of 0 entries Previous Next

List of Registered Hospitals

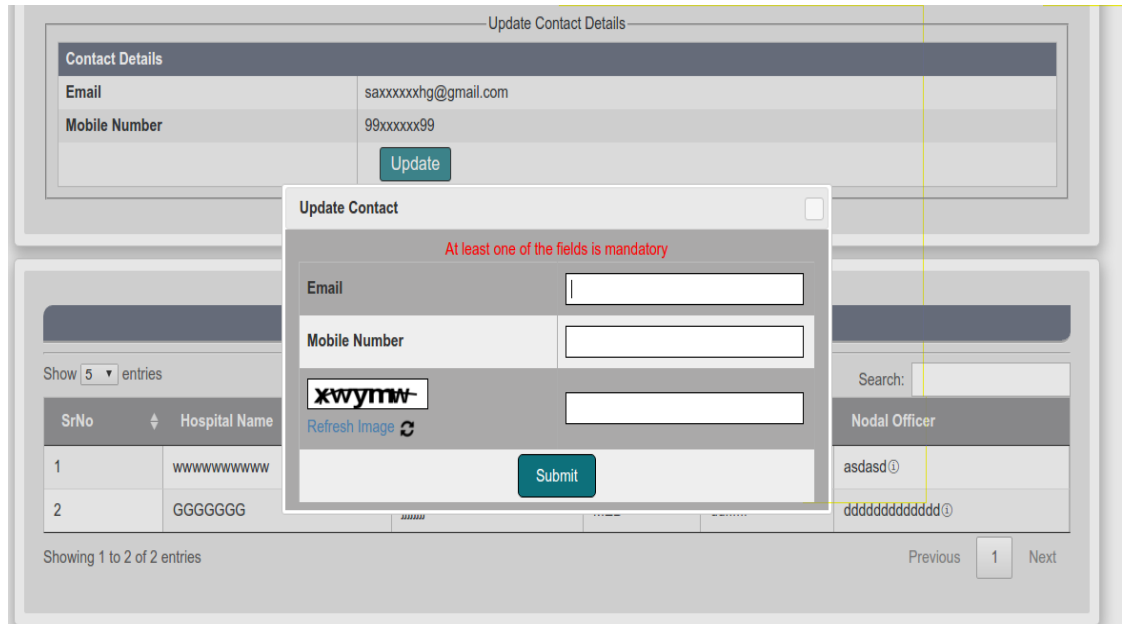
Show 5 entries [Excel](#) Search:

ital Name	Short Code	Type	Reviewer Hospital	City	Nodal Officer	View/Update
Manager	PMU	NRC			PMU Officer	View/Update
Gandhi	SGPGL	NRC		Lucknow	Sanjay Gandhi	View/Update
taghav	BRDG	MED	Sanjay Gandhi	Gorakhpur	Raghav Das	View/Update
aduate garh	PGIMER	RRC	Sanjay Gandhi	Chandigarh	Amir Humza	View/Update
ndra	DRPMC	MED	Postgraduate Chandigarh	Tanda	Rajendra Prasad	View/Update

Showing 1 to 5 of 17 entries Previous 1 2 3 4 Next

Figure 6: Update/View Hospital

Step II On clicking “Update” under “Contact Details”, following screen appears, wherein email and mobile number can be updated.



Update Contact Details

Contact Details

Email saxxxxxhg@gmail.com

Mobile Number 99xxxxx99


Update


Update Contact

At least one of the fields is mandatory

Email

Mobile Number



Refresh Image 

Submit


Show 5 entries


SrNo	Hospital Name
1	wwwwwwwww
2	GGGGGGG

Showing 1 to 2 of 2 entries

Search:

Nodal Officer

asdasd 

ddddddddddddd 

Previous 1 Next


Figure 7: Update Contact Details

Addition of Department

Step I Under “Hospital Management”, select “Department” option. A screen will appear wherein department name is needed to be entered. List of already registered departments is also shown.

Home
Hospital Management ▾
Users ▾
Escalation ▾
Report
Audit Trail
Profile
Logout

Department Name *



Refresh Image ↻

List of Registered Departments

Show 5 entries
Excel
Search:

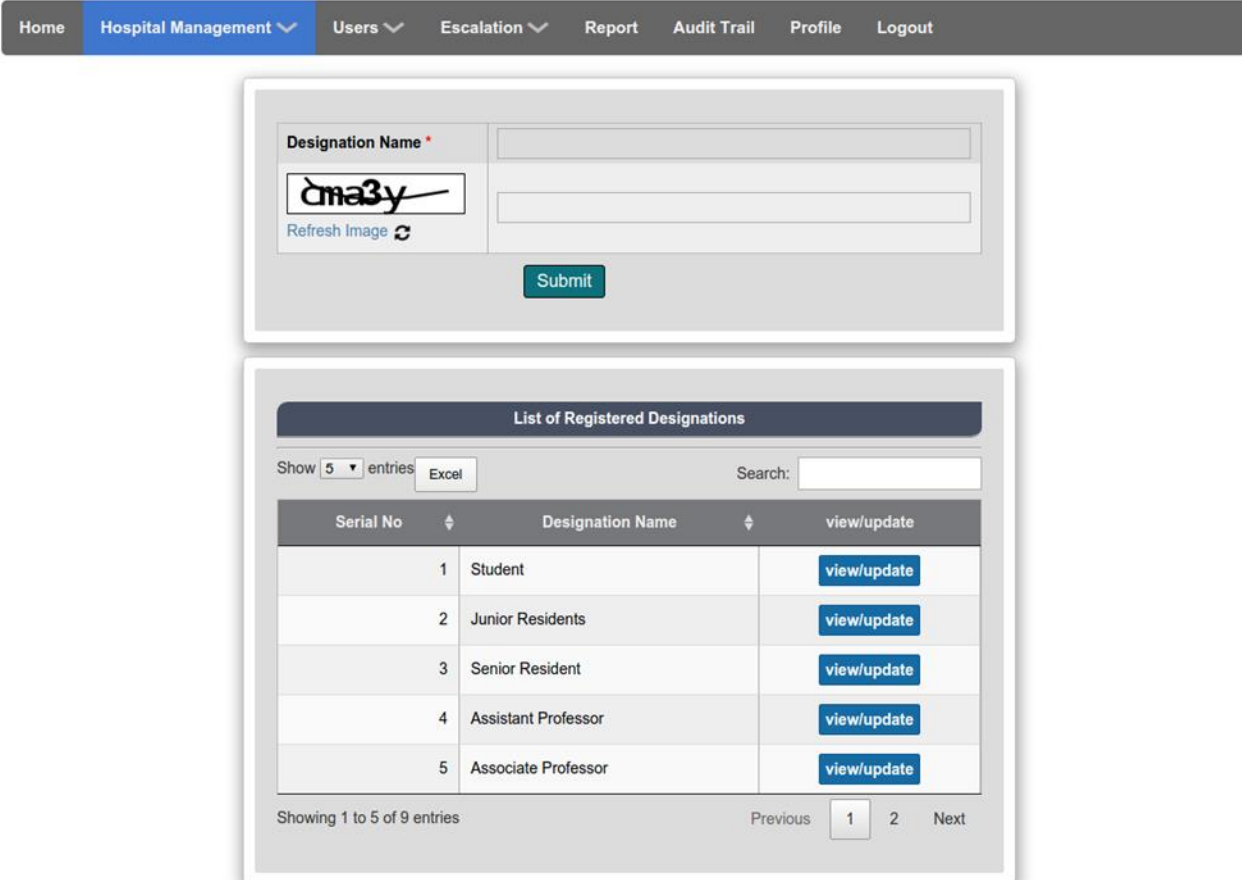
Serial No	Department Name	view/update
1	Anesthesiology	<input type="button" value="view/update"/>
2	Cardiology	<input type="button" value="view/update"/>
3	Conservative Dentistry & Endodontics	<input type="button" value="view/update"/>
4	Oral & Maxillofacial Surgery	<input type="button" value="view/update"/>
5	Oral Medicine & Radiology	<input type="button" value="view/update"/>

Showing 1 to 5 of 32 entries
Previous
1
2
3
4
5
6
7
Next

Figure 8: Addition of Department

Addition of Designation

Step I Under “Hospital Management”, select “Designation” option. A screen will appear wherein designation name is needed to be entered. List of already registered designations is also shown.



Home Hospital Management Users Escalation Report Audit Trail Profile Logout

Designation Name *

Refresh Image

Submit

List of Registered Designations

Show 5 entries Excel Search:

Serial No	Designation Name	view/update
1	Student	view/update
2	Junior Residents	view/update
3	Senior Resident	view/update
4	Assistant Professor	view/update
5	Associate Professor	view/update

Showing 1 to 5 of 9 entries Previous 1 2 Next


Figure 9: Addition of Designation


Addition of Domain

Step I Under “Hospital Management”, select “Domain” option. A screen will appear wherein domain name is needed to be entered. List of already registered domains is also shown.

Home
Hospital Management ▾
Users ▾
Escalation ▾
Report
Audit Trail
Profile
Logout

Domain Name *



[Refresh Image](#) 

[Submit](#)

List of Registered Domains

Show entries
Search:

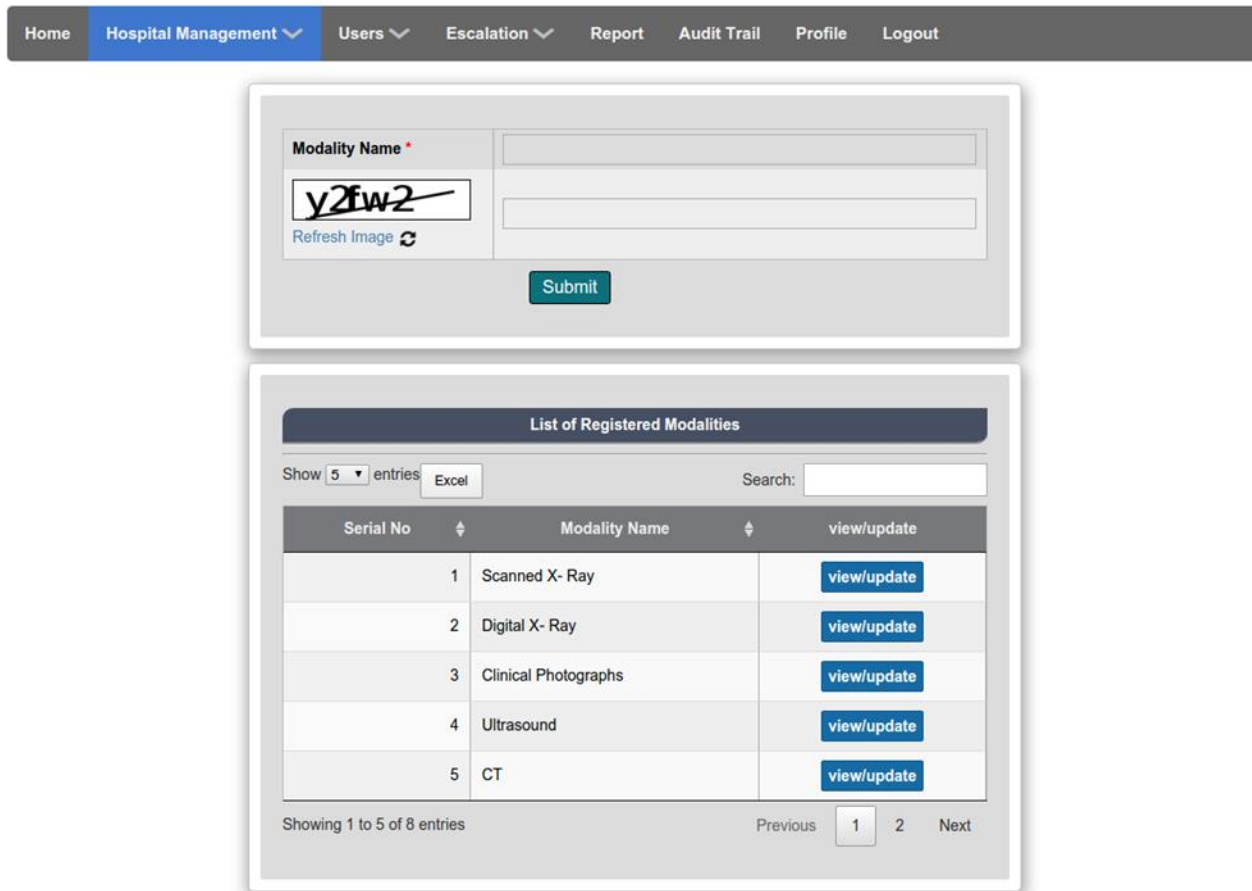
Serial No	Domain Name	view/update
1	Dentals	view/update
2	Nervous System	view/update
3	Head and Neck	view/update
4	Abdomen	view/update
5	Extremities	view/update

Showing 1 to 5 of 7 entries
Previous 2 Next

Figure 10: Addition of Domain

Addition of Modality

Step I Under “Hospital Management”, select “Modality” option. A screen will appear wherein modality name is needed to be entered. List of already registered modalities is also shown.



Serial No	Modality Name	view/update
1	Scanned X- Ray	view/update
2	Digital X- Ray	view/update
3	Clinical Photographs	view/update
4	Ultrasound	view/update
5	CT	view/update

Figure 11: Addition of Modality

Users

“Users” in menu bar has two sub menus - Registration and User Management.

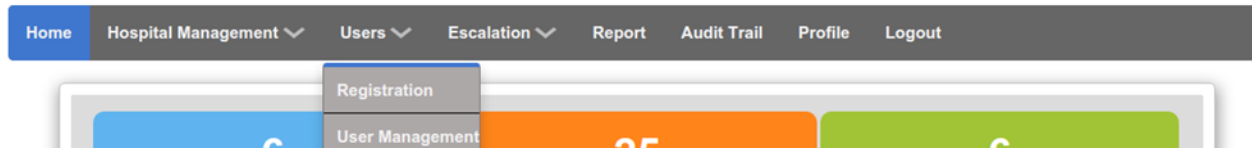
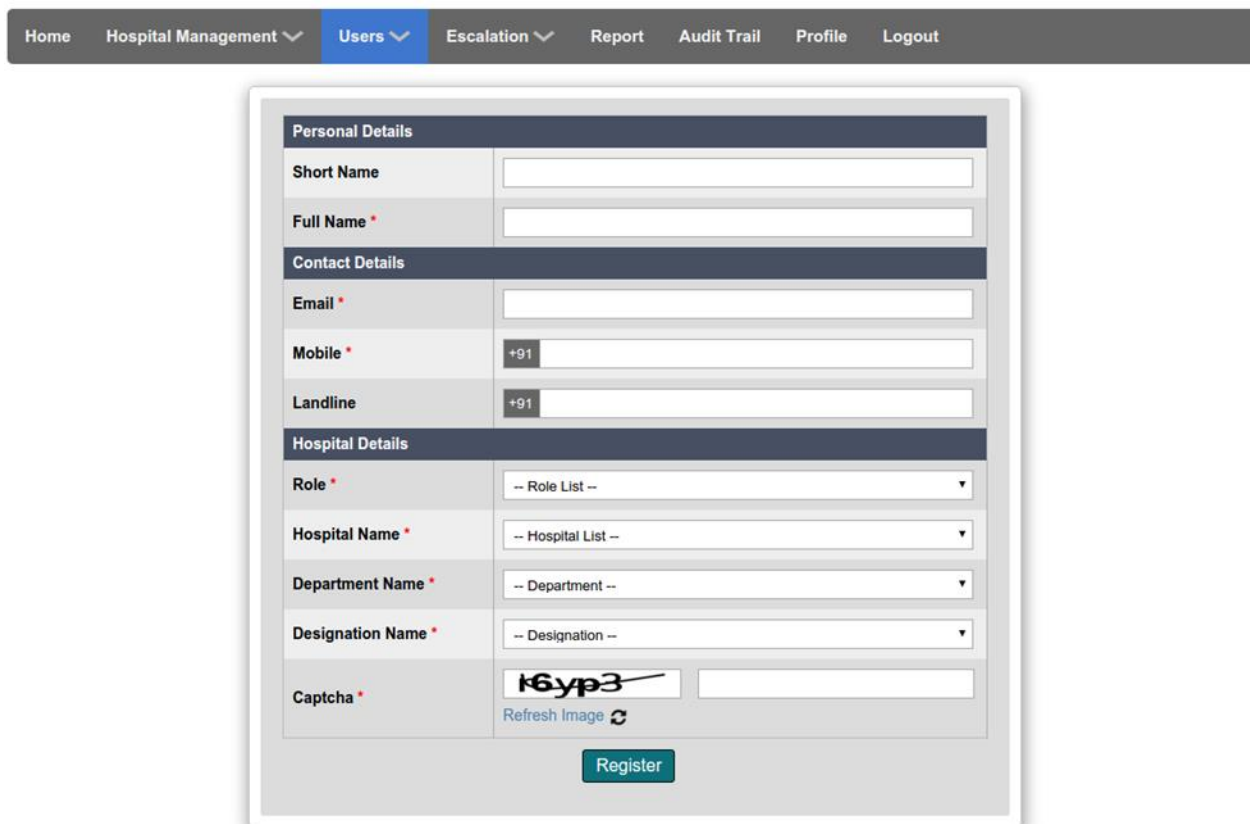


Figure 52: Users Menu

User Registration

Step I Under “Users”, select “Registration” option. A screen will appear wherein User personal and contact details are filled along with hospital details. User can be of level End User, RRC or NRC.

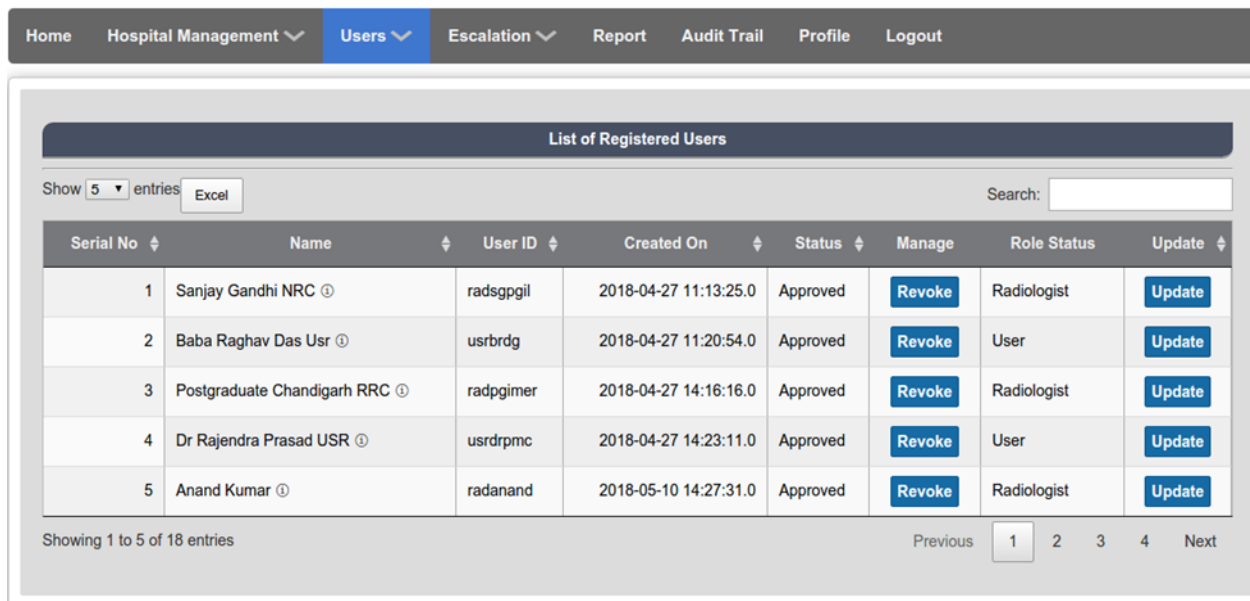


The screenshot shows the user registration interface. At the top is a navigation bar with the following items: Home, Hospital Management (with a dropdown arrow), Users (highlighted in blue with a dropdown arrow), Escalation (with a dropdown arrow), Report, Audit Trail, Profile, and Logout. Below the navigation bar is the registration form, which is divided into three main sections: Personal Details, Contact Details, and Hospital Details. The Personal Details section includes input fields for Short Name and Full Name. The Contact Details section includes input fields for Email, Mobile (with a +91 country code dropdown), and Landline (with a +91 country code dropdown). The Hospital Details section includes dropdown menus for Role, Hospital Name, Department Name, and Designation Name. At the bottom of the form is a Captcha field with a 'Refresh Image' link and a 'Register' button.

Figure 13: User Registration

User Management

Step I Under “Users”, select “User Management” option. A screen will appear wherein list of registered users will be present. User contact details can be updated and access can be revoked for a particular user if required.



Home Hospital Management **Users** Escalation Report Audit Trail Profile Logout

List of Registered Users

Show 5 entries Search:

Serial No	Name	User ID	Created On	Status	Manage	Role Status	Update
1	Sanjay Gandhi NRC	radsgpgil	2018-04-27 11:13:25.0	Approved	<input type="button" value="Revoke"/>	Radiologist	<input type="button" value="Update"/>
2	Baba Raghav Das Usr	usrbrdg	2018-04-27 11:20:54.0	Approved	<input type="button" value="Revoke"/>	User	<input type="button" value="Update"/>
3	Postgraduate Chandigarh RRC	radpgimer	2018-04-27 14:16:16.0	Approved	<input type="button" value="Revoke"/>	Radiologist	<input type="button" value="Update"/>
4	Dr Rajendra Prasad USR	usrdrpmc	2018-04-27 14:23:11.0	Approved	<input type="button" value="Revoke"/>	User	<input type="button" value="Update"/>
5	Anand Kumar	radanand	2018-05-10 14:27:31.0	Approved	<input type="button" value="Revoke"/>	Radiologist	<input type="button" value="Update"/>

Showing 1 to 5 of 18 entries Previous Next

Figure 14: User Management

Step II On clicking update button, a screen appears wherein mobile number and email can be updated and reason for the same also needs to be provided.

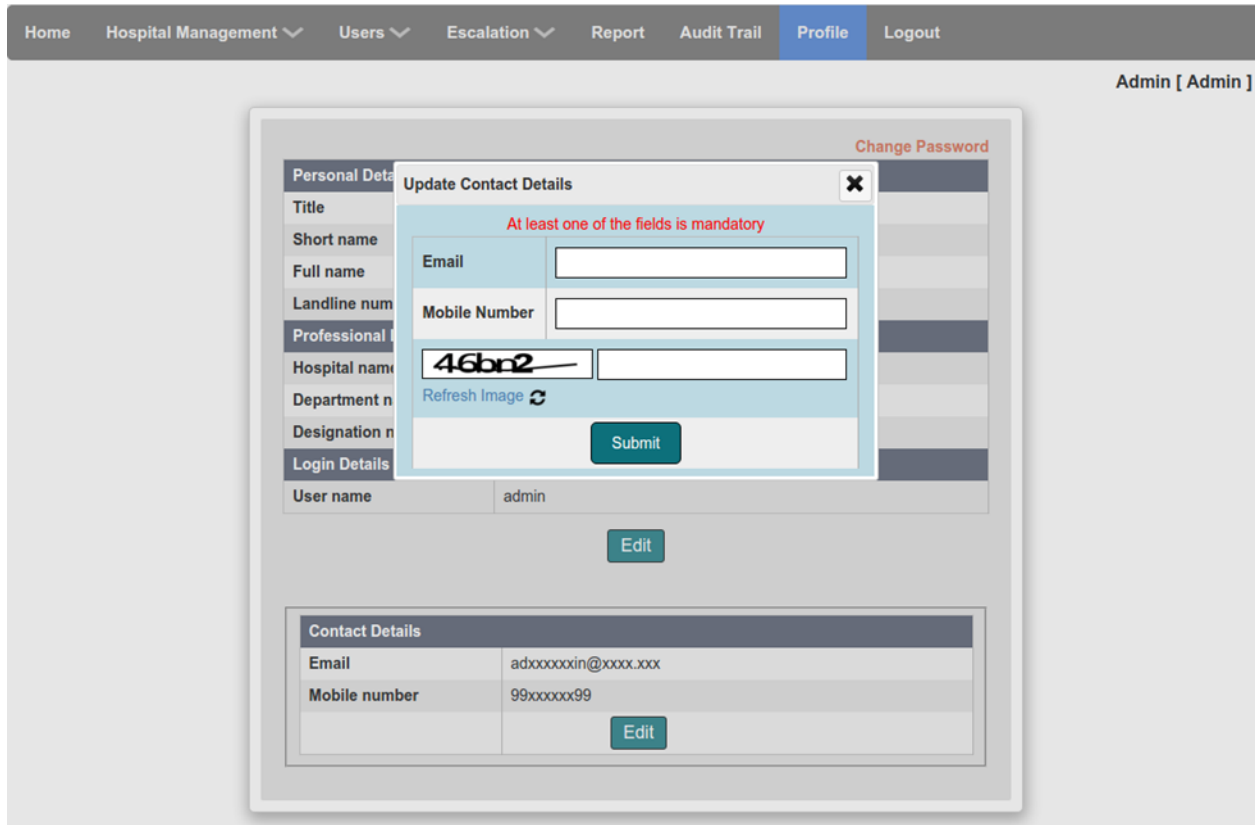
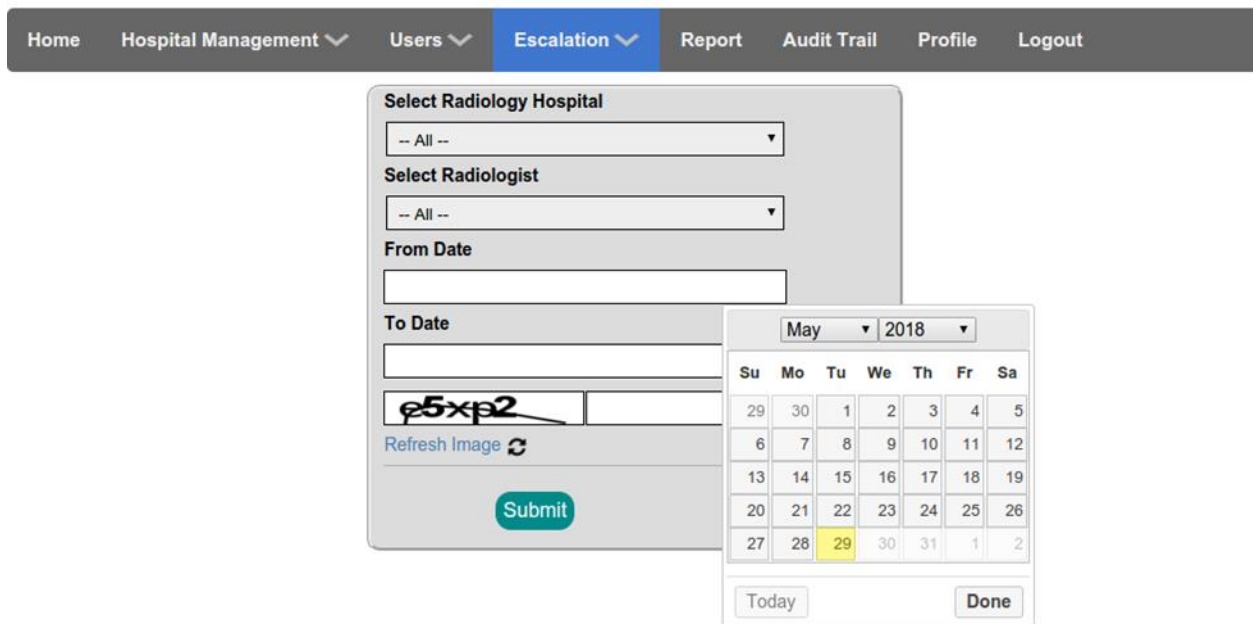


Figure 15: Update User Contact Details

Escalation

Step I In case of escalation, PMU needs to enter RRC, name of Radiologist and Date range which will escalate the resulted cases to the NRC. The case will be assigned to the Radiologist who has the least number of assigned cases for Review.



The screenshot shows the 'Escalation' section of the application. The navigation bar includes: Home, Hospital Management, Users, Escalation, Report, Audit Trail, Profile, Logout.

The form contains the following fields:

- Select Radiology Hospital: -- All --
- Select Radiologist: -- All --
- From Date: [Empty]
- To Date: [Empty]
- Image placeholder: p5xp2
- Refresh Image: [Icon]
- Submit: [Button]

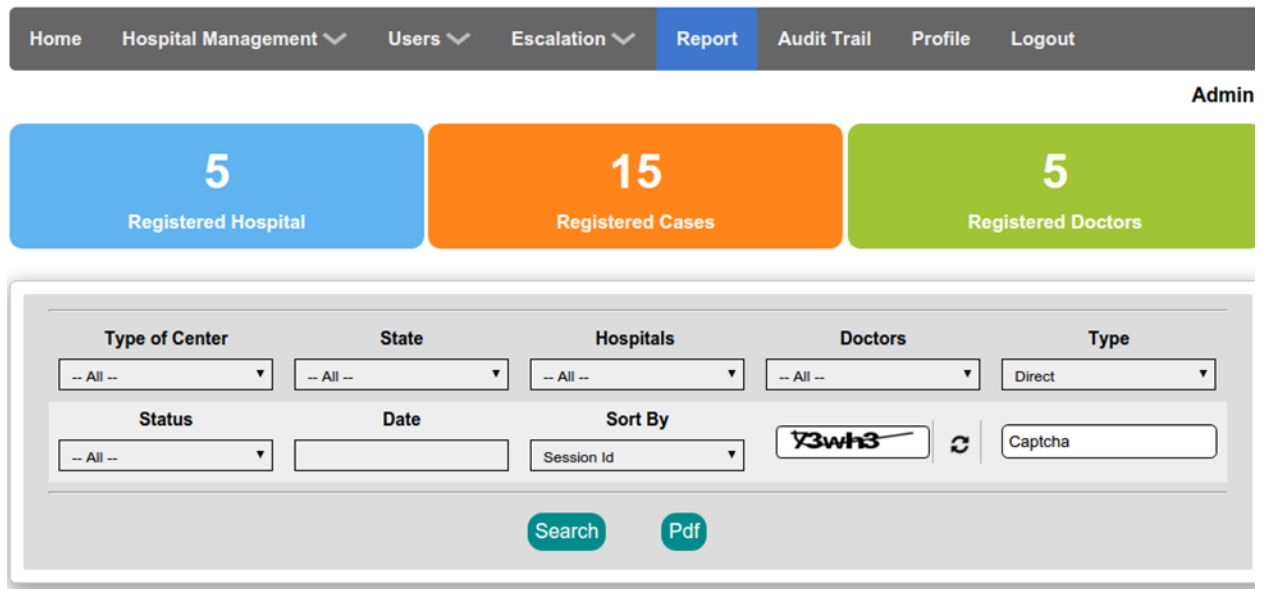
The date picker is open for May 2018, showing a calendar grid with the 29th highlighted.

Su	Mo	Tu	We	Th	Fr	Sa
29	30	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2

Figure 16: Escalation

Report

Report functionality gives an option to PMU to monitor the progress of the project by generating reports across type of center, state, hospitals etc. Both single search and combined search is available.



The screenshot displays the 'Report' section of the CORS PMU interface. At the top, a navigation bar includes 'Home', 'Hospital Management', 'Users', 'Escalation', 'Report' (highlighted), 'Audit Trail', 'Profile', and 'Logout'. Below this, a summary dashboard shows three key metrics: 5 Registered Hospitals (blue box), 15 Registered Cases (orange box), and 5 Registered Doctors (green box). The main area features a search filter panel with dropdown menus for 'Type of Center' (set to '-- All --'), 'State' (set to '-- All --'), 'Hospitals' (set to '-- All --'), and 'Doctors' (set to '-- All --'). A 'Type' dropdown is set to 'Direct'. Below these are fields for 'Status' (set to '-- All --'), 'Date', 'Sort By' (set to 'Session Id'), a captcha image with the text '73wh3', and a 'Captcha' input field. At the bottom of the filter panel are 'Search' and 'Pdf' buttons.

Figure 17: Report

User Manual for CORS- PMU

After selecting the required parameters, Report will be generated on the same page. An option to generate report in PDF format is also provided.

Home Hospital Management Users Escalation Report Audit Trail Profile Logout

Admin

5

Registered Hospital

15

Registered Cases

5

Registered Doctors

Type of Center

State

Hospitals

Doctors

Type

Status

Date

Sort By

Search
Pdf

All cases detail

Show entries Search:

SrNo.	Session Id	Collaboration Hospital	Date of creation	Reviewer Hospital	Close Date	Status
1	CASE00001	Baba Raghav Das Medical Gorakhpur	2018-05-28 12:30:55.0	Sanjay Gandhi Lucknow	2018-05-28 12:40:56.176	Complete
2	CASE00002	Baba Raghav Das Medical Gorakhpur	2018-05-28 14:26:09.0	Sanjay Gandhi Lucknow	2018-05-28 14:40:41.356	Complete
3	CASE00003	Baba Raghav Das Medical Gorakhpur	2018-05-28 14:35:26.0	Sanjay Gandhi Lucknow	2018-05-28 14:36:31.228	Complete
4	CASE00004	Baba Raghav Das Medical Gorakhpur	2018-05-28 15:25:32.0	Sanjay Gandhi Lucknow	In Progress	Pending
5	CASE00005	Dr Rajendra Prasad Medical College	2018-05-28 16:51:10.0	Postgraduate Chandigarh	In Progress	Pending

Showing 1 to 5 of 15 entries Previous 1 2 3 Next

Figure 18: Report Generation

Audit Trail

Audit trail of a particular date can be seen by clicking on Submit button. PMU can see the details of every action performed by a user logged into the application. Same can be exported in excel format.

Home
Hospital Management ▾
Users ▾
Escalation ▾
Report
Audit Trail
Profile
Logout

Date *

Refresh

2018-05-29

k34hd

Submit

Date Of Audit Log : 2018-05-29

Show **5** entries Excel
Search:

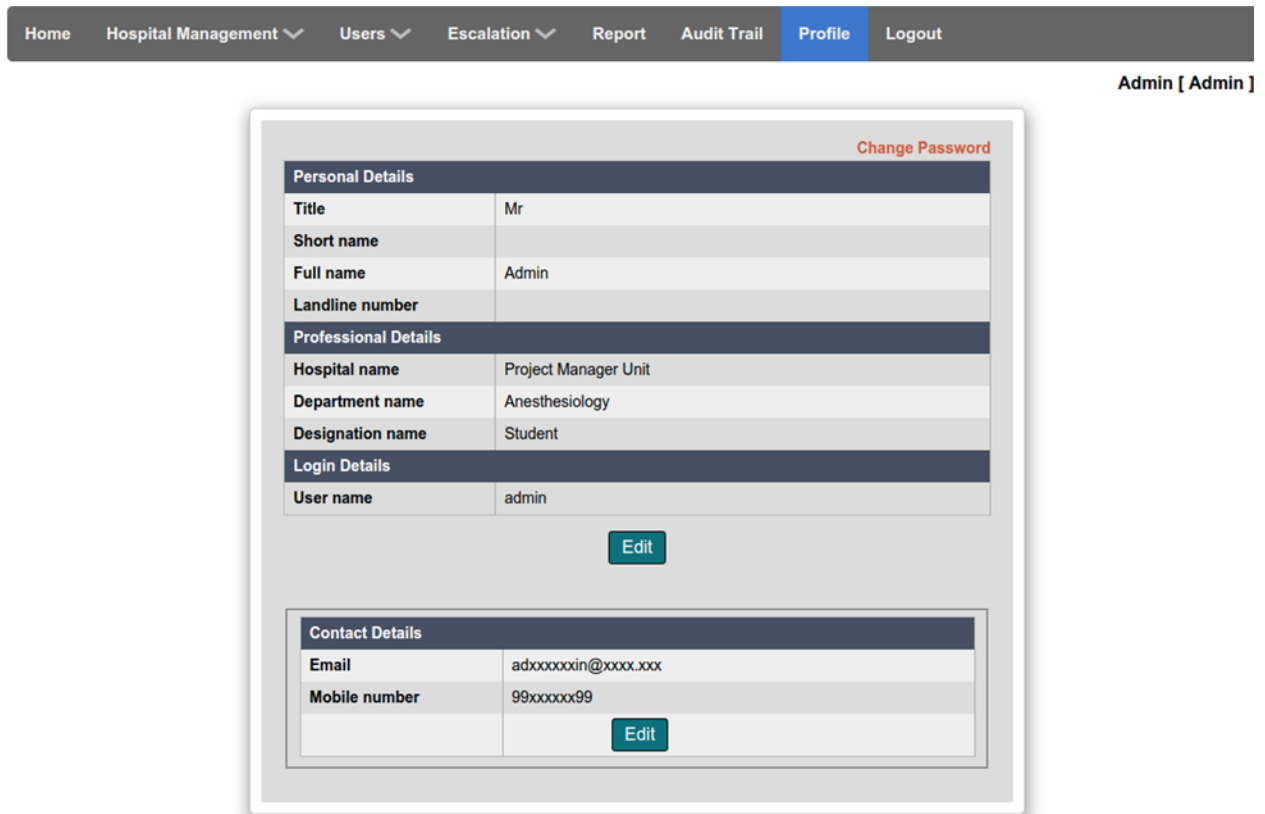
SrNo	ACTOR_NAME	ACTOR_IP	SCREEN	OPERATION_DESC	TIME(IST)	TARGETED_USER	USER_AGENT
1	RRC RAD Postgraduate	127.0.0.1	/login	Actor Login Successful	09:31:24	RRC RAD Postgraduate	Mozilla/5.0 (X11; Ubuntu; Linux i686; rv:48.0) Gecko/20100101 Firefox/48.0
2	MED Dr Rajedra Prasad	0:0:0:0:0:0:1	/login	Actor Login Successful	09:32:33	MED Dr Rajedra Prasad	Mozilla/5.0 (X11; Linux i686) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/48.0.2564.116 Safari/537.36
3	MED Dr Rajedra Prasad	0:0:0:0:0:0:1	/saveCollab	Save Collaboration Data	09:33:35	MED Dr Rajedra Prasad	Mozilla/5.0 (X11; Linux i686) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/48.0.2564.116 Safari/537.36
4	MED Dr Rajedra Prasad	0:0:0:0:0:0:1	/updateCollab	Update Collaboration Data	09:35:11	MED Dr Rajedra Prasad	Mozilla/5.0 (X11; Linux i686) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/48.0.2564.116 Safari/537.36
5	radpgimer	127.0.0.1	/logout	User logout successfully	09:35:41	RRC RAD Postgraduate	Mozilla/5.0 (X11; Ubuntu; Linux i686; rv:48.0) Gecko/20100101 Firefox/48.0

Showing 1 to 5 of 17 entries
Previous 1 2 3 4 Next

Figure 19: Audit Trail Report

Steps for managing profile and logging out from CORS

Step I User can manage his/her profile details by clicking on “Edit” button in the Profile menu.



Home Hospital Management ▾ Users ▾ Escalation ▾ Report Audit Trail Profile Logout

Admin [Admin]

Change Password

Personal Details	
Title	Mr
Short name	
Full name	Admin
Landline number	

Professional Details	
Hospital name	Project Manager Unit
Department name	Anesthesiology
Designation name	Student

Login Details	
User name	admin

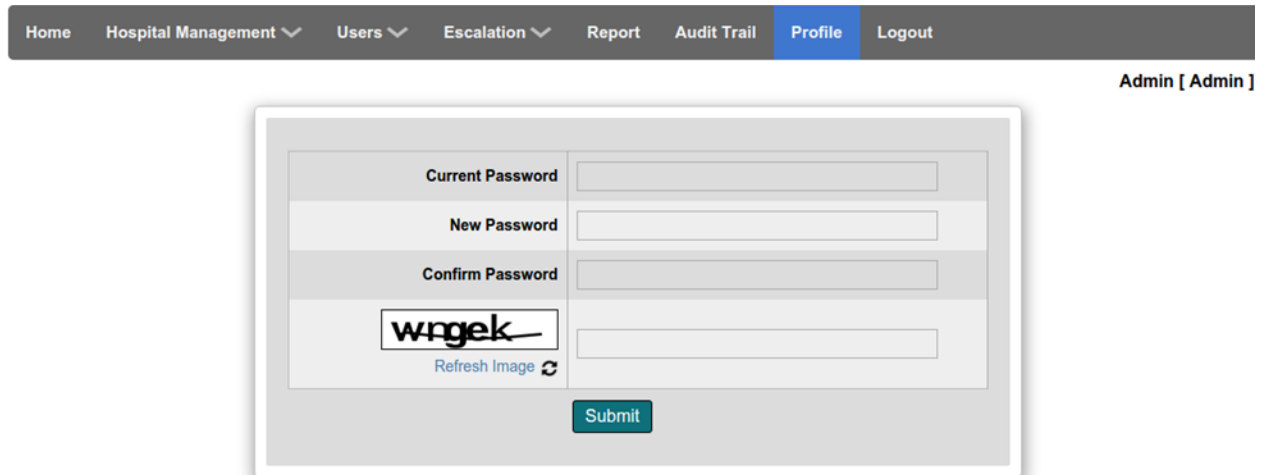
Edit

Contact Details	
Email	adxxxxxxin@xxx.xxx
Mobile number	99xxxxxx99

Edit

Figure 20: Profile

Step II On clicking “**Change Password**” link, PMU can also change the password.



The screenshot shows the CORS web application interface. At the top, there is a navigation menu with the following items: Home, Hospital Management (with a dropdown arrow), Users (with a dropdown arrow), Escalation (with a dropdown arrow), Report, Audit Trail, Profile (highlighted in blue), and Logout. On the right side of the page, the user is identified as "Admin [Admin]". The main content area displays a "Change Password" form. The form contains four input fields: "Current Password", "New Password", "Confirm Password", and a CAPTCHA field. The CAPTCHA field shows the text "wrgek" and a "Refresh Image" link with a circular arrow icon. Below the input fields is a "Submit" button.

Figure 21: Change Password

Step III PMU can logout from CORS on clicking “Logout” link from the menu bar.

Instructions to Reset Password

Step I If PMU forgets password then he/she can generate the password by clicking on “Forgot Password” link on login page.

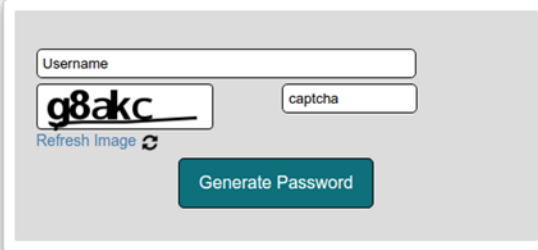


Figure 22: Forgot Password

Step II On clicking Forgot Password link, dialog box will appear wherein user needs to provide username. A link will be sent to the registered email ID of user.

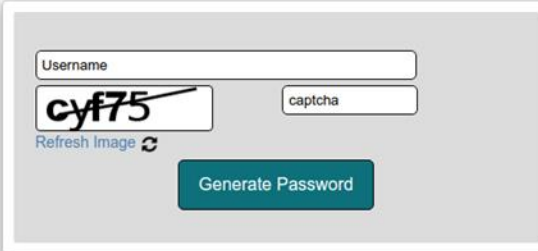
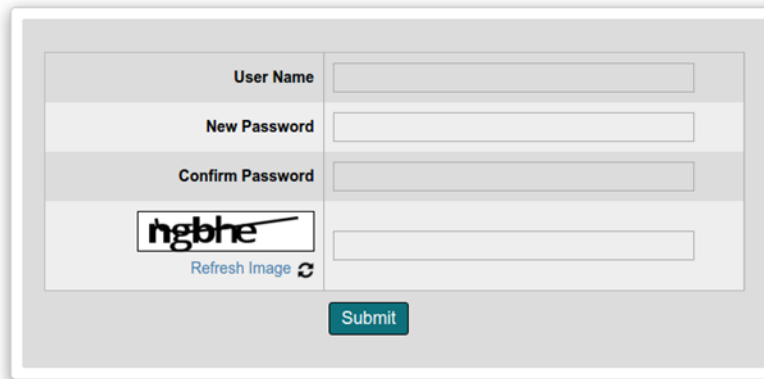


Figure 23: Generate Password

User Manual for CORS- PMU

Step III By clicking on the link shared in email, reset password page will be opened. User needs to enter the required details and click on “Submit” button. After successful validation, new password is set for the user.



The screenshot shows a web form for resetting a password. It contains the following elements:

- User Name:** A text input field.
- New Password:** A text input field.
- Confirm Password:** A text input field.
- ngbhe:** A CAPTCHA image with the text "ngbhe" and a refresh icon.
- Refresh Image:** A small blue link with a circular arrow icon.
- Submit:** A teal button at the bottom center.

Figure 24: Reset Password