

# **AUTOMATION OF MOBILE MEDICAL UNIT**

## **(Mukhya Mantri Slum Swasthya Yojana)**

### **RECEPTION AND REGISTRATION MODULE**

### **USER MANUAL**



**VERSION 1.0**

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# **1. Introduction**

The overall objective of the Reception/registration Module is to follow a comprehensive approach to manage the patient management system that eases of capturing pertinent information. This Module will manage and cater the registration and appointment of new as well as registered patient through walk-in, mobile and via phone. Registration of patient involves a 2-step process. The first step includes capturing the basic patient details, vital details and signs and symptoms. The second step includes the entry of demographic, and professional details.

## **2. Brief Overview**

### **2.1 Features**

This module manages the following features:

- Registration and appointment of patient
- Update registration and follow up appointment
- List of online appointment

### **2.2 Target Users**

The following users can access the reception and registration module:

1. ANM
2. Doctor
3. Pharmacist

## **3. Detailed requirement**

### **3.1 Registration and appointment of patient**

#### **3.1.1 Description**

This functionality allows the user to register the new patient as well as create appointment against new patient. It includes the personal details of patient as well as vital details and signs and symptoms. Once the registration and appointment is done, a unique UHID is created against each patient as well as a visit ID is created against each visit/ appointment.

#### **3.1.2 Prerequisites**

1. The user is logged-in into the application and is having access to “Registration and OPD pre consultation of patient” page

### 3.1.3 Screenshot

Registration & Appointment of Patient

Patient Details

Patient Name
Mobile No.
Gender

Select

Age

yrs

Camp Details

Camp Location

Bhilai -

Department

Vital Details

Height

Height

cm

Weight

Weight

kg

Temperature

Temperature

°F

BP

Systoli

/

Dias

mmHg

Pulse

Pulse

/min

SpO2

SpO2

%

BMI

BMI

kg/m2

RR

RR

/min

Signs & Symptoms

Patient signs & symptoms

Delete

Submit

### 3.1.4 Field Description

S. No	Field Name	Description
1	Patient name	It refers to the name of patient
2	Mobile number	It refers to the mobile number of the patient for communication purpose
3	Gender	It refers to the gender of patient
4	Age	It refers to the age of patient at the time of appointment
5	Camp location	It refers to the location where camp is created and against which appointment is created. Camp location includes city name and camp location
6	Department	It refers to the department against which appointment is given to the patient
7	Height (cm)	It refers to the height of patient.
8	Weight (kg)	It refers to the weight of the patient
9	Temperature	It refers to the body temperature of the patient
10	BP (mmHg)	It refers to the Blood pressure of the patient
11	Pulse (/min)	It refers to the heart pulse rate of the patient
12	SpO2 (%)	It refers to amount of oxygen in the blood of patient
13	BMI (Kg/m2)	It refers to the body mass index of the patient based on weight and

		height.
14	RR (/min)	It refers to the number of breathes taken by patient in a minute
15	Patient signs and symptoms	It refers to the problems/disease of the patient for which appointment has been taken

**REGISTRATION AND APPOINTMENT OF PATIENT** form contains following **BUTTONS**:

**DELETE:** This button is used to delete the selected patient signs and symptoms

**SUBMIT:** This button is used to submit the patient details to register the patient as well as to create appointment

### 3.1.5 Flow

**Steps of process flow:**

1. Click on "Reception→ Registration and appointment" link
2. The system displays the registration and appointment of patient page (**Refer screenshot**)
3. User enters/ selects the patient and vital details and patient signs and symptoms
4. Click on Submit button to register the patient and create appointment

### 3.1.6 Messages

S. No.	Message	Reason	Expected Action from the user
1.	Please enter patient name	This message indicates that the patient name is not entered before clicking on submit button	User should enter patient name
2.	Please enter mobile number	This message indicates that the mobile number is not entered before clicking on submit button	User should enter mobile number
3.	Please enter valid mobile number	This message indicates that the entered mobile number is not 10-digit number	User should enter valid mobile number
4.	Please select gender	This message indicates that gender is not selected before clicking on submit button	User should select gender
5.	Please enter age	This message indicates that age is not entered before clicking on submit button	User should enter age
6.	Please select atleast one signs and symptoms	This message indicates that signs and symptoms is not selected before clicking on Delete button	User should select signs and symptoms

## 3.2 Update registration and follow up appointment

### 3.2.1 Description

This functionality allows the user to create appointment of registered patient as well as to update the patient information in application. Patient record is searched based on search parameters like mobile number, appointment date, patient name or UHID number. Patient demographic and professional details are updated against update information whereas vitals and signs and symptoms of patient are captured for appointment along with patient personal details. Once the appointment is created, the record is displayed in OPD waiting list.

### 3.2.2 Prerequisites

1. The patient is registered in the application
2. The user is logged-in into the application and is having access to “Update registration and follow up appointment” page

### 3.2.3 Screenshot

**Appointment of Patient**

☐ Update Information ☒ Appointment

Mobile No.  -OR- Patient Name  -OR- UHID No.

Appointment Date

S.No.	Patient Name	Mobile No.	UHID No.	Age	Gender	Type of Patient
No Record Found !!						

### 3.2.4 Field Description

S. No.	Field Name	Description
Search		
1	Update information or appointment	It defines whether the information needs to be updated or appointment needs to be created of the patient
2	Mobile Number	It refers to the mobile number against which patient details need to be searched
3	Patient name	It refers to the name of patient against which patient details need to be searched

4	UHID Number	It refers to the unique UHID number against which patient details need to be searched
5	Appointment date	It refers to the last appointment date against which patient details need to be searched
<b>Table</b>		
6	Patient Name	It refers to the name of patient
7	Mobile Number	It refers to the mobile number of the patient for communication purpose
8	UHID Number	It refers to the unique system generated number assigned to patient at the time of registration
9	Age	It refers to the age of patient
10	Gender	It refers to the gender of patient
11	Type of patient	It defines whether the patient is labour or general citizen
<b>Form</b>		
12	Patient Name	It refers to the name of patient. It is displayed in read only mode
13	Mobile Number	It refers to the mobile number of the patient for communication purpose. It is displayed in read only mode
14	Gender	It refers to the gender of patient. It is displayed in read only mode
15	Age	It refers to the age of patient. It is displayed in read only mode
16	Type of patient	It defines whether the patient is labour or general citizen
17	Occupation	It refers to the occupation of patient in case patient is general citizen
18	Is labour registered in labour department	It defines whether the labour is registered in labour department or not it is displayed in case type of patient is labour
19	Registration Number	It refers to the registration number of registered labour
20	Is form submitted in labour department	It defines whether the registration form is submitted in labour department or not against unregistered labour
21	Grade of labour	It refers to the grade of labour. It is displayed in case type of patient is labour
22	Patient Category	It refers to the category of patient like General , SC/ST, OBC, etc.
23	Identification type	It refers to the identification type of the patient like AADHAAR card, driving license, etc.
24	Identification Number	It refers to the identification number mentioned to identification card.
25	Blood group	It refers to the blood group of the patient
26	Address details	It refers to the address of the patient where patient is living. It includes ward name, district, city, address and Pincode.
27	Camp location	It refers to the location where camp is created and against which appointment is created. Camp location includes city name and camp location
28	Department	It refers to the department against which appointment is given to the patient
29	Height (cm)	It refers to the height of patient.
30	Weight (kg)	It refers to the weight of the patient
31	Temperature	It refers to the body temperature of the patient
32	BP (mmHg)	It refers to the Blood pressure of the patient
33	Pulse (/min)	It refers to the heart pulse rate of the patient

34	SpO2 (%)	It refers to amount of oxygen in the blood of patient
35	BMI (Kg/m2)	It refers to the body mass index of the patient based on weight and height.
36	RR (/min)	It refers to the number of breathes taken by patient in a minute
37	Patient signs and symptoms	It refers to the problems/disease of the patient for which appointment has been taken

**UPDATE REGISTRATION AND FOLLOW UP APPOINTMENT** form contains following **BUTTONS**:

**SEARCH:** This button is used to search the specific record based on selected/ entered search parameter

**RESET:** This button is used to clear the entered/ selected search parameter

**DELETE:** This button is used to delete the selected patient signs and symptoms

**SUBMIT:** This button is used to submit the patient details either for information updation or for appointment creation

### 3.2.5 Flow

**Steps of process flow:**

**Case 1: Update information**

1. Click on "Reception→ Update registration and follow up appointment" link
2. The system displays the Update registration and follow up appointment page (**Refer screenshot**)
3. User selects update information option
4. User enters/ selects search parameters
5. Click on Search button
6. The system display the list of record based on selected/ entered search parameter
7. Click on the record against which information need to be updated
8. The system displays the update information page as follows:



### Appointment of Patient

☒ Update Information
 ☐ Appointment

Mobile No.  -OR- Patient Name  -OR- UHID No.

Appointment Date

S.No.	Patient Name	Mobile No.	UHID No.	Age	Gender	Type of Patient
1	Arun	9898984545	989898454501	38	MALE	

#### Patient Details

Patient Name  Mobile No.  Gender

Age

Type of Patient ☐ General Citizen ☒ Labour

Is labour registered in labour department ☒ Yes ☐ No

Registration No.

Grade of Labour

Patient Category  Identification Type  Identification No.

Blood Group

#### Address Details

Ward  District  City

Address  Pincode

- User edits the details that needs to be updated
- Click on Submit button to update the patient information
- Click on Reset button to reset the page

## Case 2: Appointment


- Click on "Reception→ Update registration and follow up appointment" link
- The system displays the Update registration and follow up appointment page (**Refer screenshot**)
- User selects appointment option
- User enters/ selects search parameters
- Click on Search button
- The system display the list of record based on selected/ entered search parameter

- Click on the record against which information need to be updated
- The system displays the appointment page as follows:

**Appointment of Patient**

☐ Update Information ☒ Appointment

Mobile No.  -OR- Patient Name  -OR- UHID No.

Appointment Date  

S.No.	Patient Name	Mobile No.	UHID No.	Age	Gender	Type of Patient
1	Arun	9898984545	989898454501	38	MALE	

**Patient Details**

Patient Name  Mobile No.  Gender

Age

Type of Patient ☐ General Citizen ☒ Labour

Is labour registered in labour department ☒ Yes ☐ No

Registration No.

Grade of Labour

Patient Catagory  Identification Type  Identification No.

Blood Group

**Address Details**

Ward  District  City

Address  Pincode

[Camp Details](#)

Camp Location 
Department

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[Vitals Details](#)

Height   cm

Weight   kg

Temperature   °F

BP  /   mmHg

Pulse   /min

SpO2   %

BMI   kg/m2

RR   /min

[Signs & Symptoms](#)

Patient signs & symptoms   


9. User enters the vitals and signs and symptoms and other details
10. Click on Submit button to generate the appointment
11. Click on Reset button to reset the page

### 3.2.6 Messages

S. No.	Message	Reason	Expected Action from the user
1.	Please enter search details	This message indicates that search parameter is not selected / entered before clicking on Search button	User should enter/ select at least one search parameter
2.	Please enter registration number	This message indicates that registration number is not entered against registered labour before clicking on Submit button	User should enter registration number
3.	Please select ward	This message indicates that ward is not selected before clicking on Submit button	User should select ward
4.	Please select atleast one signs and symptoms	This message indicates that signs and symptoms is not selected before clicking on Delete button	User should select signs and symptoms
5.	Appointment cannot be booked for Weekly Off and CL.	This message indicates that user is trying to create appointment when camp is not available	User should create appointment when camp is available

### 3.3 List of online appointment

#### 3.3.1 Description

This functionality allows the user to capture the vital and signs and symptoms of the patient who has taken online appointment. It includes the list of patients who has taken appointment through mobile app for today. After capturing vital and symptoms, the record is forwarded to OPD consultation page.

#### 3.3.2 Prerequisites

1. Patient has taken appointment through mobile app
2. The user is logged-in into the application and is having access to “List of online appointment” page

#### 3.3.3 Screenshot

**Pending List of pre-consultation (Online)**

Patient Name  Mobile No.

**No Record Found**

Patient Name	Mobile No.	Age	Gender
No Record Found !!			

#### 3.3.4 Field Description

S. No.	Field Name	Description
<b>Search</b>		
1	Patient name	It refers to the name of patient against which patient details need to be searched
2	Mobile Number	It refers to the mobile number against which patient details need to be searched
<b>Table</b>		
3	Patient Name	It refers to the name of patient
4	Mobile Number	It refers to the mobile number of the patient for communication purpose
5	Age	It refers to the age of patient
6	Gender	It refers to the gender of patient
<b>Form</b>		
7	Patient Name	It refers to the name of patient. It is displayed in read only mode
8	Mobile Number	It refers to the mobile number of the patient for

		communication purpose. It is displayed in read only mode
9	Gender	It refers to the gender of patient. It is displayed in read only mode
10	Age	It refers to the age of patient. It is displayed in read only mode
11	Camp location	It refers to the location where camp is created and against which appointment has been given. Camp location includes city name and camp location
12	Department	It refers to the department against which appointment has been given to the patient
13	Height (cm)	It refers to the height of patient.
14	Weight (kg)	It refers to the weight of the patient
15	Temperature	It refers to the body temperature of the patient
16	BP (mmHg)	It refers to the Blood pressure of the patient
17	Pulse (/min)	It refers to the heart pulse rate of the patient
18	SpO2 (%)	It refers to amount of oxygen in the blood of patient
19	BMI (Kg/m2)	It refers to the body mass index of the patient based on weight and height.
20	RR (/min)	It refers to the number of breathes taken by patient in a minute
21	Patient signs and symptoms	It refers to the problems/disease of the patient for which appointment has been taken

**LIST OF ONLINE APPOINTMENT** form contains following **BUTTONS**:

**SEARCH:** This button is used to search the specific record based on entered search parameter

**SHOW ALL:** This button is used to display the list of all records

**SUBMIT:** This button is used to submit the vital and signs and symptoms details of patient

### 3.3.5 Flow

**Steps of process flow:**

1. Click on "Reception→ List of online appointment" link
2. The system displays the pending list of online appointment page (**Refer screenshot**)
3. User clicks on the record OR User enters the search parameter, click on search button and then click on the record
4. The system displays the appointment page as shown below:

### Capture Pre-Consultation Details Against Online Appointment

#### Patient Details

Patient Name

ashna

Mobile No.

9910248968

Gender

FEMALE

Age

29

#### Vital Details

Height

Height

cm

Weight

Weight

kg

Temperature

Temperature

°F

BP

Systoli

/

Dias

mmHg

Pulse

Pulse

/min

SpO2

SpO2

%

BMI

BMI

kg/m2

RR

RR

/min

#### Signs & Symptoms

Patient signs & symptoms

Delete

Submit

- User enters/ selects the vital details and patient signs and symptoms
- Click on Submit button to submit the patient vital and symptoms details

### 3.3.6 Messages

S. No.	Message	Reason	Expected Action from the user
1.	Please select atleast one sign and symptoms	This message indicates that sign and symptom is not selected before clicking on Delete button	User should select sign and symptoms