# History of Edit

| # | Description | Date Modified | Author |
| --- | --- | --- | --- |
|  | First Draft - Hospital User - Schedule Appointment | 02/01/2021 | Sweta Kumari |
|  | First Draft - Patient User Schedule Data Collection Appointment | 02/01/2021 | Sweta Kumari |
|  | First Draft - View Schedule – For Physicians | 02/02/2021 | Sweta Kumari |
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# Background - Scheduling

In Scheduling Module, Nurses and Physicians are able to schedule appointment. The appointment is shown in their calendar similar to the one we see in Microsoft outlook. The scheduled appointment appears in doctor’s inbox and he/she can action on the same. A notification is also sent to Nurse based on accepted appointments.

The patient log-in / register in the system. Once register, patient adds basic demographic details. Patient can schedule a data collection appointment using scheduler module. Patient should be able to schedule data collection appointment only.

**Add / Edit/ Delete Meeting**

The availability of the appointment should be checked on the Physician selected

* Meeting title
* Description
* Physician
* Date
* Time
* Reason – In case of edit or delete

**View Schedule**

A Physician should see display of all his appointments similar to Microsoft Outlook. Then he can select individual appointment and then go for Editing or Deleting it.

# Out of Scope

1. Inbox module does not cover detailed appointment details.
2. Details of Hospital Division for appointment is out of scope.

# Assumptions

1. User of this screen has completed login via valid and verified credentials.
2. User Registration of the patient is completed.
3. Patient Registration Database is accessible to the User
4. Hospital User for this functional usecase includes Physician and Nurses only
5. The available timings of Doctor and Nurses for patient appointment are 9.am to 1.00 pm and 3.00 pm to 8.pm, Monday to Saturday, every week.
6. The User does not selects overlapping slot of two different Physicians for the same patient.
7. Patient is able to book appointment only for data collection, using schedular module.

# Scheduling - Acceptance Criteria

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| # | Acceptance Criteria | Usecase Reference | Outstanding Items |
|  | Nurse is able to add/update Meeting title, Appointment Description, Physician details, Date, Time, and Edit History for Upcoming appointment for a week period’s appointments | 1.6.1 |  |
|  | Physician is able to add/update Meeting title, Appointment Description, Physician details, Date, Time, and Edit History for Upcoming appointment for a week period’s appointments | 1.6.1, 1.6.3 |  |
|  | Today’s appointment is highlighted with different color code than other week’s appointments | 1.6.1, 1.6.3 |  |
|  | Available slots and Employee ID are auto-populated, when Physician Name is selected through drop down menu | 1.6.1, .6.3 |  |
|  | Add Appointment is Functional if Physician Name field is filled | 1.6.1 |  |
|  | Edit Appointment is Functional if Physician Name field is filled and minimum of one appointment exists | 1.6.1 |  |
|  | Delete Appointment is Functional if Physician Name field is filled and minimum of one appointment exists | 1.6.1 |  |
|  | Patient details are auto-populated | 1.6.1, 1,6.2, 1.6.3 |  |
|  | When appointment is booked, an email notification is sent to patient and respective hospital users | 1.6.1, 1,6.2, 1.6.3 |  |
|  | When appointment is modified, an email notification is sent to patient and respective hospital users | 1.6.1, 1,6.2, 1.6.3 |  |
|  | When appointment is canceled, an email notification is sent to patient and respective hospital users | 1.6.1, 1,6.2, 1.6.3 |  |
|  | Patient is able to book data collection appointment | 1.6.2 |  |
|  | Physician is able to view appointment. | 1.6.1, 1.6.3 |  |
|  | Physician is able to edit appointment. | 1.6.1, 1.6.3 |  |
|  | Physician is able to delete appointment. | 1.6.1, 1.6.3 |  |

# Functional Use Case

# Hospital User - Schedule Appointment

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| **Sr. No.** | **Description:** | This use case allows a Hospital User to add, delete, modify and view an appointment |
| **A** | **Trigger:** | Hospital User clicks ‘Appointment Scheduling” button on dashboard |
| **B** | **Pre-Conditions/Inputs:** | 1. Hospital User has successful login into Patient Management System application 2. Nurse can add, modify, delete or view appointment of all physicians in CT Hospital 3. Physician can add, modify, delete or view appointment of only his/her patients in CT Hospital Details 4. Available slots of Physician are available for coming 3 months. 5. Patient registration is completed |
| **C** | **Post-Conditions/Outputs:** | 1. The Hospital User shall be able to view add, delete, modify and view an appointment |
| **D** | **Flow:** | 1. When User clicks on ‘Appointment Scheduling” button on dashboard, the user lands on Scheduling page. The Scheduling Page has below mentioned section    * Physician Name    * Physician Employee ID (Auto-populated)    * Available Slots for this Week (Auto-populated)    * Add Appointment (Functional if Physician Name field is filled)    * Edit Appointment (Functional if Physician Name field is filled; minimum of one appointment exists)    * Delete Appointment (Functional if Physician Name field is filled; minimum of one appointment exists) 2. If the Hospital User is a Nurse, the User shall be able to search from a dropdown list of Physicians. 3. If the Hospital User is a Nurse, only upon the Selection of Physician name Add, Edit and Delete functionalities are operational. 4. If the Hospital User is a Physician, the User will be auto-populated by individual Physician’s Name. 5. Physician Employee ID is auto-populated based on Physician’s Name 6. Available slots for this week, is auto-populated based on Physician’s Name 7. When user clicks Add appointment, this subsection’s tile appears which below mentioned fields.    * Meeting title – Autogenerated after selection of Physician and Patient    * Description      1. Selection of Patient - User shall be able to perform Selection of Patient based on Patient ID      2. Descriptive information – User shall be able to add Brief information about disease or symptoms, provided by patient during Telephonic Discussion about appointment      3. Patient Information –Data captured during Patient Registration is auto-populated      4. Physician – (Auto-populated)    * Date      1. Date of Appointment – User shall be able to select date of appointment from Calendar, based on available slots. Date for which all the slots are booked, are not able to be selected, and prompts error message that “*This date has no available slots at this moment*”    * Time      1. Time of Appointment– User shall be able to select time of appointment from Calendar, based on available slots. Booked time slots are not able to be selected, and prompts error message that “*This slot is not available at this moment*”    * Patient Details (link to patient details screen)    * Edit History – This field is auto-populated (Default Value - Not Applicable; If Edited, this field contains time of edit, hospital user details who performed edit, reason of appointment modification, and Previous appointment details)    * Date & Time of appointment addition, and Hospital user ID who added this appointment is captured in master database, for reference purpose.    * User clicks – Create Appointment button    * Upon successful addition of appointment, an email notification is sent to patient and the physician with the appointment details. Also, “Appointment is successfully created” message is displayed on page, next to update button.    * Upon successful addition of appointment, the booked time slot is made not available for rest of the patients of particular Physician 8. When hospital user clicks Edit appointment, this subsection’s tile appears which below mentioned fields.    * Physician Name – User shall be able to change Physician name    * Physician Employee ID (Auto-populated)    * Available Slots for this Week (Auto-populated)    * Description      1. Selection of Patient - User shall be able to select a new Patient based on Patient ID      2. Descriptive information – User shall be able to add Brief information about disease or symptoms, provided by patient during Telephonic Discussion about appointment      3. Patient Information –Data captured during Patient Registration and demographic details of selected patient is auto-populated    * Date      1. Date of Appointment – User shall be able to select date of appointment from Calendar, based on available slots. Date for which all the slots are booked, are not able to be selected, and prompts error message that “*This date has no available slots at this moment*”    * Time      1. Time of Appointment– User shall be able to select time of appointment from Calendar, based on available slots. Booked time slots are not able to be selected, and prompts error message that “*This slot is not available at this moment*”    * Meeting title – Autogenerated after selection of Physician and Patient    * Patient Details (link to patient details screen)    * Edit History – This field is auto-populated (This field contains time of edit, hospital user details who performed edit, reason of appointment modification, and Previous appointment details)    * Date & Time of appointment addition, and Hospital user ID who edited this appointment is captured in master database, for reference purpose.    * Hospital User Clicks – ‘Update Appointment’ button.    * Upon successful modification of appointment, an email notification is sent to patient and the physician with the appointment details. Also, “Appointment is successfully updated message is displayed on page, next to update button. 9. When hospital user clicks Delete appointment, this subsection’s tile appears which below mentioned fields.    * User shall be able to select Appointment from calendar    * User clicks on “Delete Selected Appointment” Button    * Upon successful deletion of appointment, an email notification is sent to patient and the physician with the canceled appointment details. Also, “Appointment is successfully canceled” message is displayed on page, next to delete button.    * The booked time slot for individual physician is marked available in the Physician’s Available Slots.    * Edit History – This field is auto-populated (This field contains time of appointment cancellation, hospital user details who performed the appointment cancellation, reason of appointment cancellation, and Previous appointment details)    * Date & Time of appointment addition, and Hospital user ID who edited this appointment is captured in master database, for reference purpose. |
| **E** | **Exceptions/Error Conditions:** | 1. In an event of missing values, descriptive error message shall be displayed to the user, beside respective fields in red color.   *“This field cannot be empty.”*   1. If User selects a date of appointment for which all the slots are booked, an error message is displayed to the user   “This date has no available slots at this moment”   1. If User selects a time of appointment for which time slots are already booked, an error message is displayed to the user “This slot is not available at this moment” |
| **F** | **Assumptions:** | 1. The User does not selects overlapping slot of two different Physicians for the same patient. |

# Patient User Schedule Data Collection Appointment

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| **Sr. No.** | **Description:** | This use case allows a patient to User to add a data collection appointment through this schedular module |
| **A** | **Trigger:** | Patient clicks ‘Data Collection Appointment Scheduling” button on its dashboard |
| **B** | **Pre-Conditions/Inputs:** | 1. Patient has successful login into Patient Management System application 2. Patient can add, modify, delete or view data collection appointment 3. Available slots of data collection appointment are available for coming 3 months. 4. Patient Visit is completed |
| **C** | **Post-Conditions/Outputs:** | 1. The Patient shall be able to view add, delete, modify and view a data collection appointment |
| **D** | **Flow:** | 1. When User clicks on ‘Data Collection Appointment Scheduling” button on dashboard, the user lands on Scheduling page. The Scheduling Page has below mentioned section    * Physician Name – User shall be able to select from a list of his Hospital Visits    * Patient Data Status – User shall be displayed “Patient Data Available for Collection” Or “Data will be ready for collection on DD/MM/YYYY date”    * Available Slots for this Week (Auto-populated)    * Add Appointment    * Edit Appointment    * Delete Appointment 2. When user clicks Add appointment, this subsection’s tile appears which below mentioned fields.    * Physician Name – User shall be able to select from a list of his Hospital Visits    * Meeting Description – Autogenerated after selection of Hospital Visit    * Date      1. Date of Appointment – User shall be able to select date of appointment from Calendar, based on available slots. Date for which all the slots are booked, are not able to be selected, and prompts error message that “*This date has no available slots at this moment*”    * Time      1. Time of Appointment– User shall be able to select time of appointment from Calendar, based on available slots. Booked time slots are not able to be selected, and prompts error message that “*This slot is not available at this moment*”    * Patient Details (link to patient details screen)    * Edit History – This field is auto-populated (Default Value - Not Applicable; If Edited, this field contains time of edit, reason of appointment modification, and Previous appointment details)    * Date & Time of appointment addition, and Hospital user ID who added this appointment is captured in master database, for reference purpose.    * User clicks – Create Appointment button    * Upon successful addition of appointment, an email notification is sent to patient and the Nurse with the appointment details. Also, “Appointment is successfully created” message is displayed on page, next to update button.    * The booked time slot is made ‘not available / Booked’ for rest of the patients of particular Physician. |
| **E** | **Exceptions/Error Conditions:** | 1. If User selects a date of appointment for which all the slots are booked, an error message is displayed to the user   “This date has no available slots at this moment”   1. If User selects a time of appointment for which time slots are already booked, an error message is displayed to the user “This slot is not available at this moment” |
| **F** | **Assumptions:** | 1. The User does not selects overlapping slot of its two different Physicians |

# View Schedule – For Physicians

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| **Sr. No.** | **Description:** | Physicians shall be able to display of all his appointments similar to Microsoft Outlook. Then he can select individual appointment and then go for Editing or Deleting it. |
| **A** | **Trigger:** | User click ‘View Schedular’ |
| **B** | **Pre-Conditions/Inputs:** | 1. Physician has successful login into Patient Management System application |
| **C** | **Post-Conditions/Outputs:** | 1. The Physician shall be able to view, modify and delete an appointment |
| **D** | **Flow:** | 1. If Physician has zero appointment, a “You have no appointments at this moment” message is displayed on the screen 2. If Physician has one or more appointments, the physician is able to view all of his appointments which is displayed in a page (similar to Microsoft Outlook) 3. If physician selects an individual appointment, he/she shall be able to perform three actions    1. View details of appointment    2. Edit appointment    3. Delete appointment 4. When user clicks view appointment, this subsection’s tile appears which below mentioned fields.    * Meeting title    * Description      1. Patient Details      2. Descriptive information – User shall be able to view brief information about disease or symptoms, provided by patient during Telephonic Discussion about appointment      3. Patient Information –Data captured during Patient Registration is auto-populated    * Date      1. Date of Appointment – User shall be able to view date of appointment in description as well as in Calendar. Booked slots are highlighted with different color code than empty slots    * Time      1. Time of Appointment– User shall be able to view time of appointment in description as well as in Calendar. Booked slots of the day are highlighted with different color code than empty slots    * Patient Details (link to patient details screen)    * Edit History – This field is auto-populated (Default Value - Not Applicable; If Edited, this field contains time of edit, hospital user details who performed edit, reason of appointment modification, and Previous appointment details)    * User is able to view other appointments    * User is able to visit previous page 5. When Physician clicks Edit appointment, User is redirected to edit appointment section. Physician is able to perform following actions.    * Physician Name – User shall NOT be able to change Physician name    * Physician Employee ID (Auto-populated)    * Available Slots for this Week (Auto-populated)    * Description      1. Selection of Patient - User shall be able to select a new Patient based on Patient ID      2. Descriptive information – User shall be able to add Brief information about disease or symptoms      3. Patient Information –Data captured during Patient Registration and demographic details of selected patient is auto-populated    * Date      1. Date of Appointment – User shall be able to select date of appointment from Calendar, based on available slots. Date for which all the slots are booked, are not able to be selected, and prompts error message that “*This date has no available slots at this moment*”    * Time      1. Time of Appointment– User shall be able to select time of appointment from Calendar, based on available slots. Booked time slots are not able to be selected, and prompts error message that “*This slot is not available at this moment*”    * Meeting title – Autogenerated after selection of Patient    * Navigate to Patient Details (link to patient details screen)    * Edit History – This field is auto-populated (This field contains time of edit, hospital user details who performed edit, reason of appointment modification, and Previous appointment details)    * Date & Time of appointment addition, and Hospital user ID who edited this appointment is captured in master database, for reference purpose.    * Hospital User Clicks – ‘Update Appointment’ button.    * Upon successful modification of appointment, an email notification is sent to patient and the physician with the appointment details. Also, “Appointment is successfully updated message is displayed on page, next to update button. 6. When Physician clicks Delete appointment, User is redirected to delete appointment section. Physician is able to perform following actions.    * User shall be able to select Appointment from calendar    * User clicks on “Delete Selected Appointment” Button    * Upon successful deletion of appointment, an email notification is sent to patient and the physician with the canceled appointment details. Also, “Appointment is successfully canceled” message is displayed on page, next to delete button.    * The booked time slot for individual physician is marked available in the Physician’s Available Slots.    * Edit History – This field is auto-populated (This field contains time of appointment cancellation, hospital user details who performed the appointment cancellation, reason of appointment cancellation, and Previous appointment details) 7. Date & Time of appointment addition, and Hospital user ID who edited this appointment is captured in master database, for reference purpose. |
| **E** | **Exceptions/Error Conditions:** | 1. If User selects a date of appointment for which all the slots are booked, an error message is displayed to the user   “This date has no available slots at this moment”   1. If User selects a time of appointment for which time slots are already booked, an error message is displayed to the user “This slot is not available at this moment” |
| **F** | **Assumptions:** |  |