

General System Requirements

- System should support the following OS, Windows XP (32Bit) and Windows 7 (32Bit)
- System should support Zero Client environment in the first release.
- The default browser for testing is Chrome in the first release.
- System should support Audit trail, when stated in the user story.
- System should support Versioning, when stated in the user story.
- System should support logging.(Error messages ,login ,logout , change password , and whenever stated in story)
- System should support Authentication
- system should capture the logged user for tracking (Created By, Edited By, Deleted By) for all system transactions ; deleted by should be recorded when delete is not a physical delete .
- When user Delete any record, a physical delete will occurred and system should audit trail the delete action, unless story stated not to delete the record physically.
- Static data default value has configuration per module.
- Date, Time and date time Format is configurable per Module. Unless stated otherwise.
- System Shall Validate Updating Data against Concurrency (Message: **Gen_001**).
- System shall support tab index cycle including the actions bar.
- System shall support shortcuts that configure per application.

General Interface, Usability and Navigation Requirements

- The system shall be built using responsive design concept (Not in the First Release)
- If errors is not handled in the system (cannot be found in messages and exceptions tables), the following message appears: **Gen_002**.
- User can switch to another page at any time if they are not in pop-ups .
- Numbers Format is configured per module (separator, No of digits after decimal points).
- Mail template is configured per module (Body , Header)
- The system shall display a loading icon when processing or loading data on partial of the page.
- Authenticated users shall be able to access direct URLs ; unless a screen is performing an action on a selected entity (redirect on a page : stated in etch story)
- Opening screen using URL when an edit Mode page, the page will open in an add new.
- English Name(S) will be displayed on camel caps " medial capitals" ; each Name begins with a capital letter (patient name only or any name ??)

Pop-ups Requirements

- If a user opens a popup, they will not be able to access the parent page until the popup is closed unless stated otherwise.
- In add/update pop ups, Save action will close the popup, unless stated otherwise.
- In add/update pop ups, they will have a title denoting the function of the page ("Add" or "Edit").
- Pop-up windows shall be closed using close button.

Data Grids Requirements

- All data grids are sortable by all fields (except action buttons) unless stated otherwise.
- All data grids are sortable by default with the first column in the grid, unless stated otherwise. "Ascending" .

- No Scrolling in all data grids, Paging is used instead of Scrolling;
- Page Default size is 20 "configured per module [range 5-50]) unless stated otherwise.
- In any of the grids, long not to display in two lines, and a tooltip will be available to show the full text of the field.
- Headers of data grids will always be wrapped.
- Date fields that allow filtration should be filtered by Calendar control, not text control
- Time Picker fields that allow filtration should be filtered by Time Picker control, not text control
- Colour Picker fields that allow filtration should be filtered by Colour Picker control, not text control .Unless Stated Otherwise.

Forms Requirements

- If form fields are required they will display an asterisk next to their name. If they are not entered upon submitting the form.
- All fields that accept date will provide a calendar from which to pick a date
- If a page contains search criteria, search button and search results. The Grid would be empty until the search button is clicked (unless story stated otherwise). If search criteria changes, the search results are not cleared. The search results will update with the new criteria if the user clicks search once more: unless stated otherwise.
- The default mode for creation forms is the list view.
- Form mode is switched to Edit Mode when user click on edit; unless stated otherwise.
- Form mode is switched to Insert mode when user click on add new; unless stated otherwise.

Controls Requirements

The following are the general requirements for the system controls unless stated otherwise in the story

Control	Specifications
Text box	Allows both characters and numbers with or without decimals. Maximum size: 250 unless stated something else. The required text should be written inside the field with dimmed style and whenever the user clicks on it, text should be removed (i.e. user name/ DD/MM/YYYY)
Numerical text box	A numeric textbox that allows whole numbers or integers, Maximum number according to the configuration unless stated something else. The required text should be written inside the field with dimmed style and whenever the user clicks on it, text should be removed (i.e. 0.0).
Text area	Allows both characters and numbers with or without decimals. Maximum length : 500 character unless stated something else The Text area display a counter while user type. The required text should be written inside the field with dimmed style and whenever the user clicks on it, text should be removed (i.e. User Name).
Drop-down list	Control allows: <ul style="list-style-type: none"> • Auto Complete, enabled by default unless stated otherwise • Hierarchy data display, When required • Multi select list values, When required • Multi column (template) result display, When required The required text should be written inside the field with dimmed style and whenever the user clicks on it, text should be removed (i.e. Employee Name). Drop down data should be sorted alphabetically by default, unless stated otherwise in the user story
Rich text area	Control allows the following features: <ul style="list-style-type: none"> - Font Size - Font Family - Font Format (bold, italic, underlined) - Font alignment (left, center, right) - Link - Maximum size according to the story - Mode will be stated in the story. - Allow to attach image will be stated in the story.
Radio button list	- A number of radio buttons that are related to each other, if one is selected the rest are unselected. - Not more Than (4 options) ; Unless stated otherwise - Setup Data should not be displayed in a radio button
Check box list	A number of checkboxes that are related to each other, user can select one or more option.

	An option to select / Unselect all. Sorted alphabetical unless stated otherwise Allow filter unless stated otherwise.
Calendar textbox	Control is composed of an enabled textbox and a calendar icon. User Can pick date from calendar, and the date picked will display in the textbox. In other words, user can manually type a date in the textbox. According to the configured Format DD-MMM-YYYY, 18-Aug-1900 etc. "According to the attached Date time Format set " If used in netting calendar, or month end Calendar: Default date selected in Calendar is current Month and Current year (selected on page). The calendar has a placeholder displaying typing format.
Time Picker	Time is displayed in either 12 Hour or 24 Hours format according to module Format, unless stated otherwise
Attachment	The default file size is 1M Unless stated otherwise ; Attach does not store binary data. Attachment type stated in the story.
Tooltips	Example: Tooltip is used for data in grids that have three dots appended to it because the text is too long. - Text that has a tooltip control will end with "..." - When the user hovers over the displayed text, the full text appears. - When the user hovers away from the displayed text, the full text disappears. - The position of the control differs depending on the location of the field. - Tooltip will be used to notify user by a message stated in the story in case of (wrong input – wrong format, Etc).
Auto complete text box	This is a textbox that has dynamic search capabilities at run-time. A user could start typing one character (not case sensitive) in the textbox and the relevant results shall be displayed for a user to select from.

Buttons Requirements

The following are the general requirements of the buttons in the system unless stated something else in the story

Name	Description
Save	<ul style="list-style-type: none"> • Shall be displayed in all the forms in the add new • Keep the form in insert mode and clear form data • shall be placed in form actions bar
Save & Close	<ul style="list-style-type: none"> • Shall be displayed in all the forms in the add new or edit mode, unless stated otherwise • Shall direct the user to the list form • shall be placed in form actions bar
Clear	<ul style="list-style-type: none"> • Shall be displayed in all the forms in the add new or edit mode, unless stated otherwise • Clears the form data (Reinitialize the screen as it was in the initial Data/Mode) • shall be placed in form Actions bar
Add New	<ul style="list-style-type: none"> • Shall be displayed in all the forms in the list mode • Shall direct the user to insert form • shall be placed in form ribbon
Cancel	<ul style="list-style-type: none"> • Shall be displayed in all forms for cancelling edit or Add new action • Shall direct the user to the list form • shall be placed in form ribbon
Search	<ul style="list-style-type: none"> • Shall be displayed in all the forms in the list mode when stated in the story • Filter data according to the user filtration Criteria • Shall be placed in form Actions bar

Validation and Exception Messages

- Success and Failure messages should be displayed in a toaster control on the bottom of the page when saving any page
- Toaster control should be closed automatically unless stated otherwise.
- Custom validation messages should below the user control.
- The validated controls should be marked as well with a red border when the validation fires.
- All Client Side validations should be implemented on server side.

- Marked validation field should be unmarked in case user fill or correct the data that causes the validation; the validation message should disappear in this case as well.
- **Delete Record**
 - (Gen_003 – Gen_004 – Gen_005)
- **Save record**
 - (Gen_006 – Gen_007)
- **Edit record**
 - (Gen_008 – Gen_009)
- **Form Failure/Exception message**
 - (Gen_010)
- **Authorization**
 - (Gen_011)

Data Types Validation messages

- (Gen_012 – Gen_013 – Gen_014)

Data Format Validation messages

- (Gen_015 – Gen_016 – Gen_017 – Gen_018 - Gen_019)

Date from and Date To validation

- Date From must be greater than today's date
 - In case logic is based on not selecting today date or date before today
- Date from must be greater than or equal to Today's Date
- Date to must be greater than Date from

Duplicate value

- [Field Name] is in use with another [Entity] → Ex. Shift Name is in use with another Shift

Business validation and exception

- Based on each module logic