# History of Edit

| # | Description | Date Modified | Author |
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|  | First Draft - Patient Details Screen Usecase | 01/22/2021 | Sweta Kumari |
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# Background - Patient Details Screen

The CT General Hospital has gone paperless and started maintaining all the patient records and related data only in digital format. Patient Details Screen enables a hospital management system to identify and authenticate the user. Patient Details Screen is crucial because it enables hospital staffs to capture patient demographic and allergies data.

Patient Details screen will capture all the patient specific data. Once a patient registers, he/she has to enter this data, below are the sections it will cater to

* Demographics
  + First Name
  + Last Name
  + Date of Birth (DOB)
  + Age – Auto Populate based on DOB
  + Gender –
  + Race
  + Ethnicity
  + Languages Known
  + Email
  + Home Address
  + Contact Number
  + Emergency Contact Info
    - First Name
    - Last Name
    - Relationship
    - Email Address
    - Contact
    - Address – allow to select same as above
    - Do you need access to patient portal?
* Allergies
  + Type of allergies
    - Allergy\_Id
    - Allergy\_Type (Food, Drugs, Environment)
    - Allergy\_Name – (Fish, Soy, Peanuts,
    - Allergy\_Description
    - Allergy\_Clinical\_Information (Details about an Allergy)
  + Is allergy fatal

# Out of Scope

1. Patient Details Screen does not capture patient detailed medical history, and is out of scope of this requirement.
2. In-depth allergy intolerance information is out of scope.

# Assumptions

1. User of this screen has completed login via valid and verified credentials.
2. User Registration of the patient (whose record is being captured) is completed.
3. Allergy Database is accessible to the User

# Patient Details Screen - Acceptance Criteria

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| # | Acceptance Criteria | Usecase Reference | Outstanding Items |
|  | First Name and Last Name fields are required fields | 1.6.1 |  |
|  | Multiple option selection is disabled in Title field. It is selected through radio button | 1.6.1 |  |
|  | Date of Birth is in DD MM YYYY format | 1.6.1 |  |
|  | Age is auto populated using DOB | 1.6.1 |  |
|  | Multiple option selection is disabled in Gender field. It is selected through radio button | 1.6.1 |  |
|  | Race field should accept maximum of 50 characters in the text box | 1.6.1 |  |
|  | Languages Known field accepts maximum 50 characters in the text box | 1.6.1 |  |
|  | Email id is accepted in correct format, only when both username and host name are present | 1.6.1 |  |
|  | Home address is entered in Text Area | 1.6.1 |  |
|  | Optional - Based on Pin code, State and country is auto-populated | 1.6.1 |  |
|  | Contact number captures both country code and phone number | 1.6.1 |  |
|  | Emergency Contact info is a mandatory section | 1.6.1 |  |
|  | Under Emergency Contact section, First Name and Last Name fields are required fields | 1.6.1 |  |
|  | Under Emergency Contact section, Relationship is selected from a drop-down list with options Father, Mother, Sibling, Spouse, Friend | 1.6.1 |  |
|  | Under Emergency Contact section, Email id is accepted in correct format, only when both username and host name are present | 1.6.1 |  |
|  | Under Emergency Contact section, Contact number captures both country code and phone number | 1.6.1 |  |
|  | Under Emergency Contact section, | 1.6.1 |  |
|  | Under Emergency Contact section, address is entered in Text Area (if different from patient address). This section also allows to select a checkbox “Same as Patient’s Address”, in which case the captured Patient address is duplicated and auto filled in this section | 1.6.1 |  |
|  | Under Emergency Contact section, “Do you need access to patient portal? “ has two answer options ‘Yes’ or ‘No’, selected through radio buttons. ‘No’ is default selected option | 1.6.1 |  |
|  | Allergy section for the Question “Patient has any known allergies?” and answer can be selected (Yes or No) via radio button. No is default selected answer | 1.6.1, 1.6.2 |  |
|  | If Yes response is selected w.r.t Allergy, a Allergy section is expanded to with following subsections:   * Allergy\_Id * Allergy\_Type (Food, Drugs, Environment) * Allergy\_Name – (Fish, Soy, Peanuts) * Allergy\_Description * Allergy\_Clinical\_Information | 1.6.2 |  |
|  | Allergy ID can be selected from the dropdown list. ***OR*** Allergy ID can be capture in a textbox (a text appears in text box in grey color “Enter WHO/IUIS Allergen Nomenclature ID, if known).  Based on selected ID, other fields are autopopulated. This Field is not a mandatory field. If the allergy is not found in the database with specific ID, user may capture the allergy details manually | 1.6.2 |  |
|  | Allergy Type is selected from dropdown menu | 1.6.2 |  |
|  | Based on Allergy Type selected for Allergy Type, Allergy Name Dropdown option changes. Corresponding options are available for selection of Allergy Name. | 1.6.2 |  |
|  | If the Allergy Name is not available in the dropdown, a ‘Other Allergy’ Option is present | 1.6.2 |  |
|  | If other Option is selected, a Text box should appear to fill the Allergy Details. This is a required field | 1.6.2 |  |
|  | Allergy Description subsection is captured by the user, through patient’s input on allergy and past experiences of the patient | 1.6.2 |  |
|  | Allergy\_Clinical\_Information is autopulated after selection of Allergy Name. It is not a mandatory Field | 1.6.2 |  |
|  | Is Allergy Fatal subsection has accepted response as Yes or No, selected through a radio button | 1.6.2 |  |

# Functional Use Case

# Patient Details Screen for CT General Hospital

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| **Sr. No.** | **Description:** | Hospital Staff shall be able to add patient details that includes Patient demographic information, emergency details and patient’s allergy details. |
| **A** | **Trigger:** | User click enter the patient details button |
| **B** | **Pre-Conditions/Inputs:** | 1. Patient information  * Demographics   + First Name   + Last Name   + Date of Birth (DOB)   + Age – Auto Populate based on DOB   + Gender –   + Race   + Ethnicity   + Languages Known   + Email   + Home Address   + Contact Number   + Emergency Contact Info     - First Name     - Last Name     - Relationship     - Email Address     - Contact     - Address – allow to select same as above     - Do you need access to patient portal?  1. Allergy Details- Does Patient has a allergy or not 2. User should have access to this functionality. Only registered user can use this functionality to capture patient records |
| **C** | **Post-Conditions/Outputs:** | 1. Successful registration message shall appear upon click of Save/submit button 2. The user shall be able to view Patient Details after click of save button |
| **D** | **Flow:** | 1. On clicking enter the patient details button, the User shall be directed to a Patient Details Screen dashboard 2. The Patient Details Screen dashboard has two major subsections    * Patient Demographic Details    * Allergy Information 3. Following list of fields is displayed for data input in following order.    * Title – Radio button    * First Name – Text Bar    * Last Name – Text Bar    * Date of Birth (DOB) - Date format DD/MM/YYYY    * Age – Auto Populate based on DOB    * Gender – Radio button    * Race – Text Bar    * Ethnicity – Text Bar    * Languages Known – Text Bar    * Email – Text Bar    * Home Address – Text Area    * Contact Number – Text Bar    * Emergency Contact Info    * First Name – Text Bar    * Last Name – Text Bar    * Relationship – Radio button    * Email Address – Text Bar    * Contact – Text Bar    * Checkbox -Address same as Patient    * Address – Text Area    * Do you need access to patient portal? – Radio button    * Allergy Details: Patient has any known allergies? – Radio button 4. On the landing Patient Details Screen dashboard user shall be able to perform following actions    * 1. Title Selection from these option- Mr. /Ms. /Mrs. /Dr. through Radio button      2. First Name details input – Text bar; where minimum of 2 alphabets are required      3. Last Name details input – Text Bar, where minimum of 2 alphabets are required      4. Date of birth (DOB) shall be entered in correct format – the user shall be able to enter dates using the calendar icons in both the dates boxes as per DD/MM/YYYY format      5. Age shall be auto populated based on data captured in DOB section      6. Gender is selected through radio button. Multiple option selection is disabled in Gender field.      7. User shall be able to capture Race in the text field that accept maximum of 50 characters in the text box and minimum of two characters.      8. User shall be able to capture Language in the text field that accept maximum of 50 characters in the text box and minimum of two characters.      9. User is able to capture the email id in correct format, and response is accepted only when both username and host name are present, Else warning message is displayed      10. Home address shall be captured in Text Area, which captures Address details, Landmark, PinCode. Based on Pin code, State and country is auto-populated.      11. User shall be able to capture Contact number that consists of country code and phone number      12. User shall be able to capture emergency contact information in the respective section          1. Title Selection from these option- Mr. /Ms. /Mrs. /Dr. through Radio button          2. First Name details input – Text bar; where minimum of 2 alphabets are required          3. Last Name details input – Text Bar, where minimum of 2 alphabets are required          4. Emergency Contact section - Relationship is selected from a drop-down list with options Father, Mother, Sibling, Spouse, Friend, Other          5. User is able to capture the emergency contact email id in correct format, and response is accepted only when both username and host name are present, Else warning message is displayed          6. User shall be able to capture Contact number that consists of country code and phone number          7. Under Emergency Contact section, user shall be able to select a checkbox “Same as Patient’s Address”. In this case in which case the captured Patient address is duplicated and auto filled in this section          8. Alternatively, user shall be able to capture the address in Text Area, which captures Address details, Landmark, PinCode. Based on Pin code, State and country is auto-populated          9. Under Emergency Contact section, User is able to select response for question “Do you need access to patient portal? “, through selecting Yes or No radio buttons. ‘No’ is default selected. 5. User shall be able to access expanded Allergy section in case Question “Patient has any known allergies?” is responded with Yes. User shall be able to select (Yes or No) response via radio button. No is default selected answer, and only upon selection of Yes, the expanded tile of allergy details subsection appears 6. User shall be able to save the user details in database for Patient Details Screen, using Submit/save button. 7. In an event of missing values, descriptive error message shall be displayed to the user, beside respective fields in red color. Also, an error message will be shown next to submit button, that will state that the form contains one or more missing values 8. On Press of save button, a successful completion message should be displayed on the landing page. 9. On the landing page, there will be a navigation links pane to the left, showing the following links in the below sequence:    * + - 1. Go back to Patient Details Screen          2. Go to Employee Details          3. Go to Patient Registration          4. Go to User Management (This Functionality shall be covered in different module)          5. Visit Patient History (Functionality shall be covered in different module)          6. Scheduling (Functionality shall be covered in different module)          7. Go to Homepage   User shall be able to visit the tabs in the navigation pane by clicking on any of them from the current screen. The selected tab on the navigation pane shall be highlighted in ‘green’ and the unselected tabs shall be displayed in ‘grey’   1. On the ‘Patient Details Screen” page the user can view the following columns with corresponding information for each Patient. 2. Patient information 3. Demographics    * + - 1. First Name          2. Last Name          3. Date of Birth (DOB)          4. Age – Auto Populate based on DOB          5. Gender          6. Race          7. Ethnicity          8. Languages Known          9. Email          10. Home Address          11. Contact Number          12. Emergency Contact Info   Name  Relationship  Email Address  Contact  Address  Access to patient portal status   1. Allergy Details 2. The user can select a single Patient detail from the list and shall be directed to the details of the selected Patient. |
| **E** | **Exceptions/Error Conditions:** | In an event of missing values, descriptive error message shall be displayed to the user, beside respective fields in red color.   1. If the Title – Radio button is not selected then the following error message shall be displayed to the user.   *“Kindly select the title.”*   1. If First Name field is not filled then the following error message shall be displayed to the user.   *“First name cannot be empty.”*   1. If First Name field character length is less than two then the following error message shall be displayed to the user.   *“Please don’t use abbreviations”*   1. If Last Name field is not filled then the following error message shall be displayed to the user.   *“Last name cannot be empty.”*   1. If Last Name field character length is less than two then the following error message shall be displayed to the user.   *“Please don’t use abbreviations”*   1. If date of birth has missing value then the following error message shall be displayed to the user.   *“Please enter a valid date”*   1. If date of birth has a date value from future time, then the following error message shall be displayed to the user.   *“Please enter a valid date of birth”*   1. If Gender radio button has missing value then the following error message shall be displayed to the user.   *“Gender is a required field”*   1. If Race field is not filled then the following error message shall be displayed to the user.   “Race field cannot be empty.”   1. If Race field response’s character length is less than two then the following error message shall be displayed to the user.   “Please don’t use abbreviations”   1. If Ethnicity field is not filled then the following error message shall be displayed to the user.   “Ethnicity field cannot be empty.”   1. If Ethnicity field response’s character length is less than two then the following error message shall be displayed to the user.   “Please don’t use abbreviations”   1. If Languages Known is not filled then the following error message shall be displayed to the user.   “Languages Known cannot be empty.”   1. If Languages Known field response’s character length is less than two then the following error message shall be displayed to the user.   “Please don’t use abbreviations”   1. If username of email-ID is missing then the following error message shall be displayed to the user. Email address example will appear in a lighter font color shade   *“Please enter your email address e.g. exampleusername@xyzdomain,com”*   1. If Address is not captured then the following error message shall be displayed to the user.   “Please provide the postal address.”   1. If Address field response’s character length is less than 10 then the following error message shall be displayed to the user.   “Please provide the postal address”   1. If Contact number Country/Area is not captured then the following error message shall be displayed to the user.   “Please provide the Country/Area code.”   1. If Contact number Country/Area code has other than four digits than then the following error message shall be displayed to the user.   “Please provide the correct country/area code.”   1. If Contact number telephone number is not captured then the following error message shall be displayed to the user.   “Please provide the telephone number.”   1. If Contact number telephone number does not have 7 digits, then the following warning message shall be displayed to the user.   “Please validate the phone number. Telephone number has XX number of digits”   1. In an event of one/more missing values, the following error message shall be displayed to the user   *“The form contains one or more missing values”* |
| **F** | **Assumptions:** | 1. CT General Hospital is located in NewYork, U.S. |

# Patient Allergy Details Subsection

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| **Sr. No.** | **Description:** | This use case allows the User to access expanded Allergy section in case Question “Patient has any known allergies?” is responded with Yes. Only upon selection of Yes, the expanded tile of allergy details subsection appears |
| **A** | **Trigger:** | Patient Details Field “Patient has any known allergies?” is responded with Yes |
| **B** | **Pre-Conditions/Inputs:** | 1. Allergy Database – Consist of Allergy Type, Allergy Name, Allergy ID, Allergy Clinical Information 2. Details of previous allergy experience information from patient |
| **C** | **Post-Conditions/Outputs:** | 1. The User shall be able to view Patient Allergy Details on Patient Details Dashboard after click of save button |
| **D** | **Flow:** | 1. If Yes response is selected for Patient Details Field “Patient has any known allergies?”, an Allergy section is expanded to with following subsections:    * Allergy ID – (a text appears in text box in grey color “Enter WHO/IUIS Allergen Nomenclature ID, if known)      + If ID is entered the Autopopulate the Allergy Type and Allergy Name, and Allergy clinical information.      + If left blank, then Autopopulate Allergy ID after selection of allergy name    * Allergy Type – Selected from dropdown list (Animal, Bacteria airway, Bacteria skin, Contact, Drug, Food, Fungi, Insect, Mite, Parasite, Plant, Vaccine, Venom or Salivary, Others)    * Allergy Name – (Selected from Dropdown, with refined options based on selected allergy type)    * Allergy Description    * Allergy Clinical Information – (Autofilled with information available on Database) 2. User shall be able to capture Allergy ID (via Textbox/Dropdownlist). Based on selected ID, Allergy Type and Allergy Name, and Allergy clinical information fields are autopopulated. This Field is not a mandatory field. If the allergy is not found in the database with specific ID, user may capture the allergy details manually 3. User shall be able to capture Allergy Type through a dropdown menu.    1. If any option except Other is selected, a subset of data is passed to calculate the options of Allergy name dropdown, and Allergy Clinical information details.    2. If Other Option is selected by the user       1. A text box shall appear to capture the Allergy Type details (Required field).       2. Allergy ID and Clinical information fields are auto populated with Unlisted Allergy       3. Allergy Type has options - Food, Drugs, Environment, Other Source 4. Based on Allergy Type selected for Allergy Type, Allergy Name Dropdown option is derived. Corresponding options are available for selection of Allergy Name. 5. If the Allergy Name is not available in the dropdown, a ‘Other Allergy’ Option is present 6. If Other Allergy’ Option is selected, or “Other Source” option is selected; a Text box should appear to fill the Allergy Details. This is a required field 7. User shall be able to capture Allergy Description subsection, through patient’s input on allergy and past experiences of the patient. This is a descriptive section, which allows 50-1000 characters input. 8. Allergy Clinical Information is autopulated after selection of Allergy Name. It contains Allergen Source, Isoforms or partial sequences of allergen, and Allerginicity as per information available in the database. It is not a mandatory Field 9. User shall be able to fill “Is Allergy Fatal?” subsection with response as Yes or No, selected through a radio button |
| **E** | **Exceptions/Error Conditions:** | In an event of missing values, descriptive error message shall be displayed to the user, beside respective fields in red color.   1. If Other Allergy field is not filled then the following error message shall be displayed to the user.   *“This field cannot be empty.”*   1. If the “Is Allergy Fatal?” section’s– Radio button is not selected then the following error message shall be displayed to the user.   “Kindly provide a response.” |
| **F** | **Assumptions:** | 1. The section is successfully displayed upon selection of Yes response to Patient Details Field “Patient has any known allergies?” |