## Data Dictionary

## External Entity

1. **Name**: Nurse  
   **Description**: Nurse receives patient relevant detail from patient and defines the corporate relevant detail and patient relevant detail to Add New Patient process and Add New Corporate Process.  
   **Input Data Flow**: patient relevant detail, corporate relevant detail  
   **Output Data Flow**: Patient relevant detail, corporate relevant detail
2. **Name**: Patient  
   **Description**: Patient gives out patient relevant detail for registration purpose and receive payment invoice from Manage Invoice process, and would then give out payment detail to Apply Payment process.  
   **Input Data Flow**: patient relevant detail. Payment detail  
   **Output Data Flow**: payment invoice

## Processes

1. **Name**: 2.0 Manage Patient  
   **Description**: This process is responsible in managing the patient information, from searching patient account to update and delete patient account.  
   **Input Data Flow**: patient detail  
   **Output Data Flow**: patient detail  
   **Process Description**: Doctor, Nurse, and Administrator can use some patient personal detail to search for patient account, and it will comes out the requested patient detail that fetch from Patient Record data source. From here, they could either update the information which pass the updated patient detail to Patient Record, or delete the account which pass the marked patient detail to the Patient Record.
2. **Name**: 3.0 Manage Medical Record  
   **Description**: This process is responsible in managing the Patient Case and Patient Transaction, of which both Nurse and Doctor have authorities in Patient Transaction, but only doctor can manage Patient Case.  
   **Input Data Flow**: patient illness detail, medical treatment detail  
   **Output Data Flow**: patient illness detail, medical treatment detail  
   **Process Description**: Doctor could search for the patient from Manage Patient process and all of the patient information will be shown. Doctor could then use the patient illness detail to Add Patient Case whereby it will pass the new patient illness detail to Patient Case Record, or update the Patient Case whereby it pass updated patient illness detail to the Patient Case Record. Both doctor and nurse can use medical treatment detail to Update Patient Transaction, and it will be stored into Patient Transaction Record.

## Data Store

1. **Name**: Patient Record  
   **Description**: Store all patient detail and provide payment type during Apply Payment process.  
   **Input Data Flow**: patient detail  
   **Output Data Flow**: patient detail  
   **Data Structure**: Patient Name, Gender, Address, Mobile Phone Number, Occupation, Payment Type, Allergy, Emergency Name, Emergency Mobile Number, Relationship with Emergency Contact
2. **Name**: Patient Case Record  
   **Description**: Store all the patient case information which to be used during payment to know what services and items the patient has used.  
   **Input Data Flow**: patient illness detail  
   **Output Data Flow**: patient illness detail  
   **Data Structure**: Patient ID, Doctor ID, Comment, Status, Check-in Date, Check-out Date, and Ward ID

## Test Case: Add Unit Function

Pretest condition:

1. Open Software.
2. Login with Username: “admin” and Password: “admin”
3. Click on “MAINTENANCE” button on the left of the software.
4. Click on “UNIT” button.
5. Click on “Add” button.

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| --- | --- | --- | --- | --- |
| Test Case ID | Objective | Procedure | Expected Result | Actual Result |
| 1 | Add Unit by filling up Description and Abbreviation. | 1. Key in “New Unit” in the Description Field. 2. Key in “NU” in the Abbreviation field. 3. Click on “Save” button. | Record successfully added. |  |
| 2 | Add Unit with existing Description. | 1. Key in “New Unit” in the Description Field. | Error:  Description already existed. |  |
| 3 | Add Unit with existing Abbreviation | 1. Key in “Unit New” in Description. 2. Key in “NU” in the Abbreviation. | Error: Abbreviation already existed. |  |
| 4 | Add Unit without Description. | 1. Leave blank in Description field. 2. Key in “N” in the Abbreviation field. 3. Click on “Save” button. | Error:  Please fill up the Description field. |  |
| 5 | Add Unit without Abbreviation field. | 1. Leave blank in Description field. 2. Key in “N” in the Abbreviation field. 3. Click on “Save” button. | Error:  Please fill up Abbreviation field. |  |
| 6 | Click on “Cancel” button to back to Unit Menu | 1. Click on “Cancel” button. | Return to Unit Menu. |  |