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| **New Generation Diagnostic Center**  **User Requirements Document**  **Project 001-URD**  **Version No:1.0**    **SATYAM COMPUTER SERVICES LIMITED**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_    ***< Give the* *Address of the location of the Project >*** |

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| **Name** | **Role** | **Reviewed by** | **Passed by** |
| Janaki Ram | Team member |  |  |
| Sindhu G | Team member |  |  |

**VERSION HISTORY**

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| --- | --- | --- | --- |
| **Version No.** | **Date** | **Changed By** | **Changes Made** |
| 1.0 | 18/0/2014 | --- | Base Version |
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**Diagnostic Center**

**User Requirements Document (URD)**

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# Introduction

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| Background Information | A major healthcare center chain spread across many locations in India has opened a 200-bed hospital in a coastal town in Andhra Pradesh. There are no such healthcare centers in 200 km radius and serving nearly 7 lacs people in and around the town. There are outpatient department, inpatient department, nursing stations, billing counter, pharmacies, central drug stores, diagnostic center, ambulance, intensive care units, operation theatres, emergency ward, mortuary, patient room management, staff management and training departments. Each department has its own manager and few staff given to it to manage its operations. |

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| Purpose | The purpose of the “Diagnostic Center” is to provide the from home platform for the patients to have their required health tests booked from home and get treated at a respective time without wastage of time. |

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| Scope | This application is being developed as a subsystem for the existing health care center which reduces the turmoil in collection of reports. |

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| Definitions and Acronyms |  |

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| **Acronyms** | **Explanation** |
|  |  |
|  | NA |

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# General Description

This section describes the general factors affecting the software and its requirements.

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| System Perspective | : This application is designed for the diagnostic section of the health care center and it enables the staff convenience in the following ways:   * To check the availability of the tests that are required by the patient. * To check the schedule and attend shifts. * To issue the final test reports of the patient. |

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| System Environment | : Target Environment Minimum Requirements   1. Microsoft .Net 4.0 2. Windows XP/Vista/7. 3. SQL Server 2008 R2. 4. ADO.net |

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| Development Environment | *“*Same as System Environment*”.* |

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| User Characteristics | Technician, administrator, receptionist, physician.   * **Experience and Technical Expertise required**: Basic computer skills.   **Frequency of users:** 500-1000  Simple and User friendly. | |
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| Customer Constraints | The customer can wait in the waiting room until he/she gets his/her turn..He has to approach office staff to avail services from Diagnostic centre. He/she has to remember his/her report, bill numbers and credentials. |

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| General Constraints | N/A |
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| Assumptions, Dependencies and Risks | If the reports are mislead which leads to further complications and the  Patient can have free test.Any contravercy found in the testing process or the reports can be directly stated to the management. |
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| Security Requirements | It is required that theCustomers do not reveal their login ids and passwords to any others as there may be any health complications. |

**Unstated Requirements:**

The hospital has another separate Diagnostic centre functioning where patients who require emergency medicated tests are redirected.

**SUGGESTIONS:**

1. The system should be extensible for new services and new customers.

2. Patient can register and login and take the appointment for the required services.

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# Use Cases Look-up Table

This table gives a consolidated view of the Use Cases. Detailed descriptions of each of the use cases are given in the Use Case Specification section following this table.

| **S. No.** | **Use Case ID** | **Use Case Name** | **Source** | **Need** | **Priority** | **Stability** | **Verifiability** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | UC01 | Signup | User Requirements | Essential | High | Stable | Verifiable |
| 2 | UC02 | Login | User Requirements | Essential | High | Stable | Verifiable |
| 3 | UC03 | Staff details | User Requirements | Essential | Medium | Stable | Verifiable |
| 4 | UC04 | Reserve diagnosis | User Requirements | Essential | Medium | Stable | Verifiable |
| 5 | UC05 | Test update | User Requirements | Essential | Medium | Unstable | Verifiable |
| 6 | UC06 | Report status | User Requirements | Essential | Medium | Stable | Verifiable |
| 7. | UC07 | Update reports | User Requirements | Essential | Medium | Unstable | Verifiable |
| 8 | UC08 | Logout | User Requirement | Essential | High | Stable | Verifiable |

**Use Cases Specification**

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| --- | --- | --- |
| **Use Case ID:** UC01 | | **Use Case Name:** Signup |
| **Description:** | The patients willing to avail any Diagnosis are supposed to signup in the the site before resering for their Diagnostic procedure. | |
| **Actors:** | Patients | |
| **Pre conditions:** | None | |
| **Post conditions:** | patient get User id and password | |
| **Frequency of Use:** | Once by the patient who is new to the centre | |
| **Normal Course of Events:** | 1. Patient enters all mandatory details 2. System validates the account for individual. 3. Patient should login with the received credentials. | |
| **Alternative Courses:** | NA | |
| **Associated Use case diagrams** | Patient | |
| **Exceptions:** | patient cannot enter the portal without having valid credentials | |
| **Includes:** | Login | |
| **Special Requirements:** | Availability, GUI compatibility, Browser requirement | |
| **Assumptions:** | Patient should enter valid details | |
| **Notes and Issues:** | NA | |

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| --- | --- | --- |
| **Use Case ID:**UC02 | | **Use Case Name:**login |
| **Description:** | Staff/Patient/admin will login to their respective portals with their provided credentials. | |
| **Actors:** | Staff/Patient/admin | |
| **Preconditions:** | Should be initially registered to login | |
| **Post conditions:** | Can access the account | |
| **Frequency of Use:** | Whenever they need with valid credentials | |
| **Normal Course of Events:** | enter the valid credentials | |
| **Alternative Courses:** | If the credentials are invalid, should ask for valid credentials | |
| **Associated Use case diagrams** | Staff/patient/admin | |
| **Exceptions:** | Cannot login with invalid credentials. | |
| **Includes:** | General details, Registrations for tests, view the status reports , view schedule ,update schedule. | |
| **Special Requirements:** | Availability, browser requirement, GUI compatibility | |
| **Assumptions:** | Every staff/patient/admin are assumed not to violate the rules | |
| **Notes and Issues:** | None | |

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| **Use Case ID:**UC03 | | **Use Case Name:**Staff Details |
| **Description:** | Admin can have a look at basic details of the diagnostic centre consisting of his accountable members. | |
| **Actors:** | Staff | |
| **Preconditions:** | Should be initially registered for login | |
| **Post conditions:** | Eligible to continue with the work regarding updating their profile and assigning times for the patients to attend checkups. | |
| **Frequency of Use:** | Whenever they need | |
| **Normal Course of Events:** | NA | |
| **Alternative Courses:** | NA | |
| **Associated Use case diagrams** | Staff | |
| **Exceptions:** | Cannot give invalid address for contact | |
| **Includes:** | Necessary details of staff | |
| **Special Requirements:** | Availability, browser requirement, GUI compatibility | |
| **Assumptions:** | NA | |
| **Notes and Issues:** | All the staff members are required to follow their schedule provided and offer services in time | |

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| **Use Case ID:**UC04 | | **Use Case Name:**Register for tests |
| **Description:** | Patient should register in given available tests in the diagnostic centre. | |
| **Actors:** | Patient | |
| **Preconditions:** | For Registration, patient should have valid account | |
| **Post conditions:** | Can attend tests | |
| **Frequency of Use:** | Whenever required | |
| **Normal Course of Events:** | NA | |
| **Alternative Courses:** | NA | |
| **Associated Use case diagrams** | patient | |
| **Exceptions:** | Unwanted tests if checked unseen can be cancelled later. | |
| **Includes:** | Timings of the test | |
| **Special Requirements:** | Availability, browser requirement, GUI compatibility | |
| **Assumptions:** | NA | |
| **Notes and Issues:** | None | |

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| **Use Case ID:**UC05 | | **Use Case Name:** Test update |
| **Description:** | Whenever new kind of test is introduced in the diagnostic center ,the name and the other details of it needed to be updated in the system for future use. | |
| **Actors:** | Staff | |
| **Preconditions:** | Authorized persons like staff can enter test details | |
| **Post conditions:** | Available to patients | |
| **Frequency of Use:** | Whenever new kind of test is introduced have to update them | |
| **Normal Course of Events:** | NA | |
| **Alternative Courses:** | NA | |
| **Associated Use case diagrams** | Staff | |
| **Exceptions:** | Cannot enter false details | |
| **Includes:** | Test details and timings | |
| **Special Requirements:** | Availability, browser requirement, GUI compatibility | |
| **Assumptions:** | NA | |
| **Notes and Issues:** | None | |

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| **Use Case ID:**UC06 | | **Use Case Name:** Report status |
| **Description:** | This information gives about the final reports for the patient. | |
| **Actors:** | Technician | |
| **Preconditions:** | Sample reports from test centre can send to technician | |
| **Post conditions:** | Received by patients | |
| **Frequency of Use:** | Once the tests are done and reports are updated patient can view this anytime | |
| **Normal Course of Events:** | NA | |
| **Alternative Courses:** | NA | |
| **Associated Use case diagrams** | staff | |
| **Exceptions:** | Reports shouldn’t be mislead | |
| **Includes:** | Test details and status, time of test done | |
| **Special Requirements:** | Availability, browser requirement, GUI compatibility | |
| **Assumptions:** | NA | |
| **Notes and Issues:** | None | |

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| **Use Case ID:**UC07 | | **Use Case Name:** Update reports |
| **Description:** | This information gives about the updating of reports to the patient. | |
| **Actors:** | Technician | |
| **Preconditions:** | Sample reports from test centre can send to technician | |
| **Post conditions:** | Received by patients | |
| **Frequency of Use:** | Once the tests are done and reports are updated patient can view this anytime | |
| **Normal Course of Events:** | NA | |
| **Alternative Courses:** | NA | |
| **Associated Use case diagrams** | Staff | |
| **Exceptions:** | Reports shouldn’t be mislead | |
| **Includes:** | Test details and status, time of test done | |
| **Special Requirements:** | Availability, browser requirement, GUI compatibility | |
| **Assumptions:** | NA | |
| **Notes and Issues:** | None | |

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| --- | --- | --- |
| **Use Case ID:**UC08 | | **Use Case Name:** Logout |
| **Description:** | Staff/patient/admin can use logout option to close their account. | |
| **Actors:** | Staff/patient/admin | |
| **Preconditions:** | Staff/patient/admin should login into the account with valid credentials | |
| **Post conditions:** | The account can be maitained secure until next login | |
| **Frequency of Use:** | Once the required tasks are done after login it is mandatory to logout | |
| **Normal Course of Events:** | NA | |
| **Alternative Courses:** | NA | |
| **Associated Use case diagrams** | Staff details and Patient details | |
| **Exceptions:** | Staff /patient shouldn’t forget to logout their accounts. | |
| **Includes:** | NA | |
| **Special Requirements:** | Availability, browser requirement, GUI compatibility | |
| **Assumptions:** | NA | |
| **Notes and Issues:** | None | |