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| **HEALTH CARE CLINIC**  **Patient Registration System**  **Software Requirements Specifications**  **(Object Oriented Development)**  **Satyam Computer Services Limited**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_    ***Rakesh Lab, Ground floor, Vikramsila Block, STC, Bahadhurpally, Hyd*** |

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| **Patient Registration System**  **Software Requirements Specifications**  **(Object Oriented Development)**    **Prepared By Inspected/Reviewed By Approved By**  **NAME:** S.RAVITHEJA  S.UDAYKIRAN  **ROLE:**  **SIGNATURE:**  **DATE:** 6th May, 2011 |

**HEALTH CARE CLINIC**

**Software Requirements Specifications (OO)**

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# Introduction

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| Technical Modeling | The real world application scenarios captured as Use Cases in the User Requirements gathering/ behavior modeling phase are elaborated and the information is abstracted in the form of class descriptions. The enhanced Use case diagrams, classes, the class diagrams, sequence diagrams, collaboration diagrams, state transition diagrams and the activity diagrams are generated either manually or using a tool. This SRS along with the modeling elements forms the basis for the software development. Reference Guidelines for Object Oriented Modeling. |

The SRS provides the implementation aspects of the software development, detailed descriptions of the Classes, traceability to the URD.

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| Overview | Health Care Clinic intends to provide medical facilities to people living in India. As a part of providing quality services it decides to automate the day-to-day activities of Some of the functions, which are identified, to be computerized as part of the Patient Registration include New-patient Registration, generating Registration Id, and search Patient details, Doctor’s Appointment, Provide Accommodation, Provide Treatment and Bill Generation. The system can provide the details about the Patient’s records, tests undergone by the patient and doctor appointment details. |

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| Purpose | The project is about developing a Patient Registration System which is to  be developed using SQL Server and ADO. NET using the concepts of Normalization. |  |

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| Scope | The system will provide the following features:   * Automation of patient registration process. * Fix Doctor Appointment and Providing Accommodation. * Maintaining the payment details and medical reports.   The following interfaces are expected to be delivered:   * Personal details form: To capture the required details, namely, name, address, age, sex, disease & specialty in which he seeks for treatment, contact number, email, and the patient id generated. * Patient details form: This form is meant for generating the bills for registration fee, doctor fee, and diagnostic test fee. |

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| Definitions and Acronyms | |  |  | | --- | --- | | **Acronyms** | **Explanation** | | URD  Admin | User Requirements Document  Administrator | |  |  | |  |
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| References | 1. SQL Server 2005 by Wrox Publication 2. Professional C# by Wrox Publication |

# Overall Description

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| Product Functions | * Login as Administrator, Operator and Doctor * Register the Patients * View Patient Details * View Doctor Details * View Appointments * Save the Doctor and Patient details to the database * Fix the appointment * Logout |

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| User Characteristics | 1. Administrator  * Centralized control over the System * Capability to delete or update operator and doctor details * View operator & doctor details |  |  |
|  | 1. Operator  * To login into the system using the application * To register the patient details to make an appointment with the doctor * Allot the accommodation * Generate the bill * View the Doctor, Patient details and also view appointments  1. Doctor  * To login into the system using the application * To view Patient details * To view the appointments * Treat the patients  1. Patient  * Go for the treatment * Pay the bill |  |  |

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| Operating Environment | **Hardware requirements**   |  |  |  | | --- | --- | --- | | **Number** | **Description** | **Alternatives (If available)** | | 1 | Windows Operating System |  |   **Software requirements**   |  |  |  | | --- | --- | --- | | **Number** | **Description** | **Alternatives (If available)** | | 1 | .NET Framework |  | | 2 | Visual Studio 2005 |  | | 3 | NetBeans IDE 6.0.1 |  | | 4 | SQL Server 2005 |  | |

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| Assumptions, Dependencies, **Risks** | 1. Creation of username & password  * Alphanumeric * No special characters (only for username) * Password to be more than 6 characters |  |

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# Common Considerations

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| External InterfaceSpecifications | The User, Hardware, Software and Communication interfaces are specified in this section. |

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| User Interfaces | 1. Windows Application  Registration Form  Log in page  Invalid Username & Password |

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| Software Interfaces | * Windows Operating System * Visual Studio 2005 * SQL Server 2005 |
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# Functional Requirements

The system has been broadly classified into following functional requirements.

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| Requirement Id 1: | **ADM-20-UC01 (LOGIN)** |
| Operating Specification | This interface provides administrator to login.  Fields that need to be entered by the user are:     * 1. Login as.   2. Login ID.   3. Password. |
| Requirement Id 2: | **ADM-20-UC02 (ADDS DOCTOR/OPERATOR DETAILS)** |
| Operating Specification | This interface provides the administrator to add doctor/operator details.  Fields that need to be entered by the user to add a doctor are:   * 1. Doctor name   2. ID   3. Password   4. Specialization   5. Qualification   6. Mobile No   Fields that need to be entered by the user to add an operator are:   1. Operator name 2. ID 3. Password 4. Specialization 5. Qualification 6. Mobile No |
| Requirement Id 3: | **ADM-20-UC03 (VIEW DOCTOR DETAILS)** |
| Operating Specification | This interface facilitates the administrator to view the doctor details.  No fields are needed to be entered by the doctor. |
| Requirement Id 4: | **DOC 20-UC01 (LOGIN)** |
| Operating Specification | This interface provides doctor to login.  Fields that need to be entered by the user are:     * 1. Login as.   2. Login ID.   3. password. |
| Requirement Id 5: | **DOC 20-UC02 (VIEW DOCTOR DETAILS)** |
| Operating Specification | This interface facilitates the doctor to view his details.  No fields are needed to be entered by the doctor. |
| Requirement Id 6: | **DOC 20-UC03 (VIEW APPOINTMENTS)** |
| Operating Specification | This interface facilitates the doctor to view the appointment details.  No fields are needed to be entered by the doctor. |
| Requirement Id 7: | **DOC 20-UC04 (PATIENT TREATMENT)** |
| Operating Specification | This interface facilitates the doctor to treat the patients.  No fields are needed to be entered by the doctor. |
| Requirement Id 8: | **OPR 20-UC01 (LOGIN)** |
| Operating Specification | This interface provides operator to login.  Fields that need to be entered by the user are:     * 1. Login as.   2. Login ID.   3. Password. |
| Requirement Id 9: | **OPR 20-UC02 (REGISTER PATIENT DETAILS)** |
| Operating Specification | This interface provides the operator to register patient details  Fields that need to be entered by the user are:   1. Patient Name 2. Gender 3. Age 4. Email 5. City 6. State 7. Phone No |
| Requirement Id 10: | **OPR 20-UC03 (GENERATES BILL)** |
| Operating Specification | This interface provides the operator to generate the bill,  Fields that need to be entered by the user are:   * 1. Test details   2. Accommodation |
| Requirement Id 11: | **PAT 20-UC01 (GETS TREATMENT)** |
| Operating Specification | This interface facilitates the patient to get the treatment.  No fields are needed to be entered by the patient. |
| Requirement Id 12: | **PAT 20-UC02 (PAYS THE BILL)** |
| Operating Specification | This interface facilitates the patient to pay the bill.  No fields are needed to be entered by the patient. |

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| Traceability Table | This Annexure contains a table depicting the Traceability of each of the identified functional requirements. |

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| System Function | Requirement in URD | Functional Requirement in  SRS |
| SRS\_001 | ADM-20-UC01 | Login |
| SRS\_002 | ADM-20-UC02 | Adds/Removes Doctor Details |
| SRS\_003 | ADM-20-UC03 | Adds/Removes Operator Details |
| SRS\_004 | ADM-20-UC04 | View Doctors/Operator Details |
| SRS\_005 | DOC-20-UC01 | Login |
| SRS\_006 | DOC-20-UC02 | View Doctor Details |
| SRS\_007  SRS\_008  SRS\_009  SRS\_010  SRS\_011  SRS\_012  SRS\_013  SRS\_014  SRS\_015 | DOC-20-UC03  DOC-20-UC04  OPR-20-UC01  OPR-20-UC02  OPR-20-UC03  OPR-20-UC04  OPR-20-UC05  PAT-20-UC01  PAT-20-UC02 | View Appointments  Patient Treatment  Login  Register Patient Details  Fix Appointment  Generate bill  Removes patient  Gets Treatment  Pays the Bill |