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| **CHANGE HISTORY** |

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| **DATE** | **SECTIONS CHANGED** | **CHANGE DESCRIPTION** |
| 2-5-15 | All | Initial Creation of SRS |
| 10-5-15 | Problem Statement, Functional Requirement | Added more points with descriptions |
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| **INTRODUCTION** |

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| **Problem Statement**  **(Broad scope of the System)** | Create a Railway Reservation System For Travellers to avail services provided by Indian Railways.   * Information Inquiry: Display available trains between source & destination on a date range.   + Also displayTrain timings   + Route Info   + Ticket prices in different classes   + Availability based on date & no. of passengers * Ticket booking based on availability:   + Book ticket on selected train   + In selected classes   + Between different places   + Record traveller details (Name, Age, Sex etc..)   + Infants (age < 2) are free   + Make Payment through Credit or Debit card * Amend Tickets   + Change travel date & class   + Add / Delete travellers * Cancel Ticket * Print Itinerary (for multiple trains)   + Print Ticket   + Print Train details |
| **Goals of Implementation**  **(Benefits of the system)** | * Access to train information& seat availability anytime/anywhere * Ticket Booking w/o physically visiting ticket counter * Make cashless payments for booked tickets * Amend travel details anytime/anywhere * Cancel tickets anytime/anywhere * Print Tickets/Itinerary anytime/anywhere |
| **Environmental Requirements** |  |
| **Hardware** | Pentium IV, IBM MainFrame, Locally Connected PCs & HP9000 |
| **Software** | Java, HTML, Perl, C, C++ |
| **OS/Platforms** | Unix, MS-Windows, LINUX, Windows’NT, Sun Solaris |
| **Constraints**  **(Duration, Cost ... )** | 3 months, 2 member team, 50,000 Rupees |

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| **FUNCTIONAL REQUIREMENTS** |

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| **MODULE / MAJOR FEATURES #1**  **<LOGIN /REGISTRATION & MAIN SCREENS>** | * Display LOGIN/REGISTRATION screen with below details   + Ask if New **User** or Existing User   + If New User ask him/her to Register in Registration screen     - Collect Name, Address, Contact No., User Id & Password & Save in the system   + If Existing User ask him/her to Login through Login screen     - Collect User Id and Password & authenticate * After password validation,   + Allow user to enter the system & display the Main screen containing below info     - Menu options for all modules/major features     - Logo of the system |
| **MODULE / MAJOR FEATURES #2**  **<TRAIN DETAILS ENQUIRY>** | * When User selects the “Search **Train**” option,   + He/She should be asked to enter/select below information :     - Travel Date (or Date Range)     - Source & Destination stations   + Below Details For All the Trains Available should be displayed     - Date     - Train no.     - Train name     - Start, End & Intermediate stations     - Travel class wise availability with ticket prices |
| **MODULE / MAJOR FEATURES #2**  **<TICKET BOOKING>** | * When User Chooses the appropriate train from trains displayed above and selects “Book **Ticket**” option,   + Collect the below details of all **passengers**     - Name, Age, Sex, Veg/Non-veg     - Record any Infants (age < 2)   + Select the travel class (Slipper, 3AC, 2AC, FirstClass)   + Make **Payment** methods ( Credit or Debit card)     - **Record card details & authentication info ????**   + Book ticket on selected train |
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| **NON-FUNCTIONAL REQUIREMENTS** |

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| **USER INTERFACE RELATED** | Web-based Interface, Standalone GUI ... |
| **PERFORMANCE RELATED** | Response Time limit for Inquiries: 5 secs  Response Time limit for Ticket Booking: 10 secs |
| **REUSABILITY RELATED** | Inquiry & Booking Modules should have reusable functions |
| **RELIABILITY RELATED** | System should have high reliability in critical modules like Payment process, Train Booking Process |
| **MAINTAINABILITY**  **RELATED** | System should be highly maintainable: Good technical documents, Proper commenting inside programs, Coding standards & guidelines must be followed |
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| **CONCLUSION** |

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