SRS POCUMENT

1.1 Purpose of Pocument

The purpose of this Software Requirement Specification (SRS) document is to define the functional and non-punctional requirements for Notel Management Systems (HMS). This document aims to provide a idea, detailed, and unambiguous description of the system's functionalities constraints, and interpares to be developed. It serves as reference for stakeholder.

1.2 Scope of Pocument

The Hotel Management System is designed to automate and Deamline key operations of a noted such as room reservations wheek - in I check - out, guest management, billing, and reporting. The system will support multiple will notes, include administrator, front-desh staff, housekeepis staff, and guests, It will praise a centralized platform to manage booky; soon availability, report generator, pilling and reporting

1.3 Overview

I have be about about at that I are travel made 112 The hotel Management System is a comprehensive intuitive system designed to steenish bey operation while enhanced uses experience: The system is designed to improve efficiency in all key features and reduce human who while also vaccomadating scalability The remaining section of this document describes overall description which includes purctions, non functional requirements, externol integare requirements etc.

2. Cremal Description The MMS is designed as a modular web-boned application replace manual or fragmented hotel operation management It will improve data considery population officing resource handling and thereby improving customes salisfaction and registration and online books Room availability and sesemation management Automated check-is/chak- out process I stepented billing and tomore Househeeping tast assignments hole-based uses ones Reporting and analylies Users will acress systems theory an institute UI tailored to their roles. The system will run on word intractructure for scalability and reliability 3. Functional Regulements FR1: Allow gueste to register, login, and manage propular FR2: Enable iguests to reach for available minus by date and FR3: Allow guets to book, coul, or mostly recurations ordine FRY: Allow front desh staff to wreate, update, or const hooking manually. F. E. broces payments via Third party galeways. FR6: Antomate Check-in and check-out procedures with oversion options for dall FR8: (renewate seport on orugany) revenue and just history

4. Interface Requirements

4.1 Uses Interpre

guest-facing kooking proton with registration and payment option - slappy dashboard for managing bookings, check-in, housekeeping, and reports - Admin panel for uses and system management

4.2 Marduare Interpare

optional barcode/RF10 Beannes for wom ours of check in in the transmit in the contract of the contrac

4:3 Software Tuterface

Integration with payment gateway APIS (eg Stripe on PayPal)

SMS and email notification servine por books comprimation

Database backend on date pusistance

4.4. Communication Interface

Sence HTTPS protocol for neb communication and entered integration. REST ful APTIS for interest module communication and entered integration

5. Respondere Requirements support at least 100 consurred usus without degradation

average sesponse time shall be evily 2 seconds Ensure system uptime of 99.9% with failones and soloney in 5 mis-

dails automated backups will integrity checks

6. Perign Constrainte lompliance with data privacy regulations. Secure storage and transmission, of sensitive date Modular architecture to facilitate nautorance and scalabily Compatibility with maders web browsers and mobile platform Dependence on third-party API's for payment and notification, 7. Non-Functional Requirements Reliability: 99.9% uptine, data recovery mechanism in plan Usability: Intention UI with minimal training required for stopp Security: hole bared ancess control, encrypted purhuords. Mountainability: Modular codeback with documented APIS Scalability: Ability to support multi- property hotel chair in the 8. Preliminary Schedule and Budget Phase Lost Duvation Description Regurend Analysis \$5000 2 weeks Finalizing required 85ks System Design. 3 weeks Architectural utluxdess \$.8000 Implementation 8 weeks \$25000 Cooling & integration Testi \$ 7000 Clark integration, system lests 3 veeles Deployment \$ 3000 Productio release & trong hucek Maintenace (1 year) 6000 Ongiring ! Buy pies , Mina uplates Total Estimated Budgd: \$54000 Estimated Duration: 17 weeks