

Non-Functional Requirements Document: Management Information System(MIS)

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1.0 Introduction

This document defines the non-functional requirements (NFRs) for the Management Information System(MIS). It specifies the quality attributes, performance benchmarks, and operational standards the system must meet to be successful.

Quality Attribute	Key Requirements
Performance	<ul style="list-style-type: none">The application must be lightweight and load quickly (< 3 seconds) on mobile networks.Must handle peak user loads during events without slowing down.
Security	<ul style="list-style-type: none">All user data must be secure, using strong encryption for storage and transmission. Access must be strictly controlled by user role to protect sensitive information.
Usability	<ul style="list-style-type: none">The interface must be user-friendly, simple, and intuitive for all roles. The system must be fully responsive and easy to use on any mobile device.
Reliability	<ul style="list-style-type: none">The system must be highly reliable, with 99.5% uptime and no data loss. Must have daily backups for tournaments and weekly backups for regular use and a quick recovery plan in case of failure.
Extensibility	<ul style="list-style-type: none">The system must have a modular design,

	<p>making it easy to add new features (e.g., championship management, multilanguage localisation) with minimal impact. The architecture should support future integrations via an API (e.g., connecting to a payment service like PhonePe or Razorpay to process fees).</p>
Scalability	<ul style="list-style-type: none"> • The platform must be able to scale efficiently to handle a growing number of users and a large volume of historical performance data over time.
Compatibility	<ul style="list-style-type: none"> • The web application must function correctly and consistently across all major, modern web browsers (e.g., Chrome, Firefox, Safari, Edge).
Portability	<ul style="list-style-type: none"> • The application should be designed to be easily moved from one hosting environment to another with minimal code changes.
Maintainability	<ul style="list-style-type: none"> • The source code must be well-documented, clean, and follow consistent coding standards to make it easy for the team to fix bugs and make future updates.