**Cricket Management System**

**A Project Report**

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**CSE2016**

**(Software Engineering)**

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**1. PROBLEM ANALYSIS**

In present days we encounter so many problems like many people cannot watch the live of current matches and it requires high quality network and consumes more time. We can also see the advertisements more often than the information needed in time. We can see there so many server errors in giving the information required to the user and this cause more time to load the information.

**1.1 OVERVIEW OF THE PROJECT**

The aim of the Project is to let people know the information of

* Cricket statistics
* Player information
* Team information
* Upcoming Schedules
* Live updates of current matches
* Achievements made by players and teams
* Ranking of each player and Team
* In this software you can save time by just entering the data required to know which gives result quickly.

**How this software is beneficial to you?** This software makes easier to user to know the statistics of Cricket. This software gives you instant results of history and matches played by a player and his team.

This software project is very helpful for Cricket Lovers who want live updates on ongoing matches. This software also provides current run rate, projected score.

**1.2 IDENTIFICATION OF PROJECT SCOPE**

The design of this software is to help the people who know the basic operation of gadgets can use this software. So, it will decrease the complexity to get the required information in Cricket. This Project will help Cricket teams to know information of new players required to for the team.

The database will update every time and store the data so, that it will create a friendly user interface. To secure the database we provide an authentication to safely complete the tasks. This requires internet connection to get the information of cricket.

In this Cricket management System, the admin adds the information, statistics and update the information of current live matches where the user can login or register to view the information.

**2. GENERAL DESCRIPTION**

The Cricket Management System helps people to get the information of their favourite cricketers, teams, and live updates. Also, the developer of the software designing an application for the mobile devices so, it makes easy for the user without going to website by just opening the app you can search for the information of cricket and ongoing matches.

**2.1** **PRODUCT PERSPECTIVE**

The product aim is to give the information without any disturbances like advertisements and no need for high quality internet or strong machines and quick results.

**2.2** **PRODUCT FUNCTION**

* Data Management
* Security Management
* User Management
* Category Management

**2.3 USER AND CHARACTERISTICS**

User should be familiar with the terms like login, register, searching the data etc.

**2.3.1 Customer**

The user can use the web browser or a mobile app to get the information of the cricket. The user can login through his mobile number or email, and they should give their full names, username, email, and password.

**2.4 OPERATING ENIVORNMENT**

This software requires a full internet connection and any browser like google chrome, Mozilla Firefox etc.

**2.5 DESIGN AND IMPLEMENTATION CONSTRAINTS**

* Device should have 25MB internal memory
* Full internet connection
* This requires no specific Operating system

**3****. FUNCTIONAL REQUIREMENTS**

Requirements which are needed for functional aspects of the software are:

* View option is given to the user to view both the personal and professional data of

the player or team they require.

* Retrieve function lets the user to offline download the details of the players and the

teams.

* Search option helps the users to find the required data of a player or team by typing

The specific information like name of the player or team.

* Notify option helps the users to see the regular updates of the information of players in the Cricket Management System.
* Authentication function helps to secure the data of players and teams. It also determines and validates the identity of users.

**4. INTERFACE REQUIREMENTS**

All the users will see the same page when they open the Management. The admin is required to login through the ID and password to make any changes in the database and to add the information. The users can retrieve the information about the different players their personal details and the team details when they logged into their respective accounts of Cricket Management Systems

**4.1 HARDWARE REQUIREMENTS**

The CMS application will be storing 500 players and personal data will be 500 -600 mb of the database storage space.

**4.2 SOFTWARE REQURIEMENTS**

* The CMS will work on any android mobile with version higher then 4.4
* The application will run on 256mb or higher ram.
* It requires the space of 25mb to deploy on to the machine.
* To store and fetch data from data base online, the user also requires an active internet connection for smooth working of project.

**5. PERFORMANCE REQUIREMENTS**

The connections of the server will be based on user attributes like his location and server will be working 24/7.

The response time of cricket management system is 0.5 second is the limit for having the user to feel that the system is reacting instantaneously. 10 seconds is the time limit to keep the user's attention focused on the dialogue, for longer delays the system that has the significant number of users that costs the response of the time delays.

The user can access the software at any time and accepts any number of users.

**6. NON -FUNCTIONAL REQUIREMENT**

Requirements which are not needed for the functional aspects of the software are

* Both the admin and user need to log in to access data from Cricket Management System. There will be no special privilege for admin.
* The information regarding the players and their teams is stored in a database securely.

The information includes the player’s personal details along with achievements in their cricketing career.

* The CMS satisfies the user requirements and can handle multiple users at a time,

resulting in optimal performance.

* The overall cost of the project is minimal which is affordable by one and all.
* The CMS is highly flexible as it can be accessed by any person or organization without much adversity.
* Display of advertisements and unrelated matter is minimized to decrease the disturbances caused to the users.
* The investment required is spendable and the cost to maintain the updates and the security is affordable.

**7.CONSTRAINATS**

The user must login with the internet connection. It should contain at least 25 mb internal memory and 256 mb ram. The visitor should login into the software to access the full features of the software.

**7.1 SOFTWARE LIMITATIONS**

Each user must login, first to have access to information of players. In other words, each user has an account created by the Admin. Also, here the user must verify with an OTP for the user security.

**7.2 HARDWARE LIMITATIONS**

There are no limitations in the operating system in which Cricket Management System will work. However, the Cricket Management System and the database will work on a server that needs to be always online.

**8. PRELIMINARY SCHEDULE AND BUDGET**

**8.1 PRELIMINARY SCHEDULE**

**Planning for CMS**

Documentation

Coding

Testing

Final Version

6th week

5th week

3rd week

1st week

The planning of this software is calculated per weeks and will be completed in up to 6th week

**8.2 BUDGET**

We are assuming Rs.10,000 /pm. i.e., 10,000 per month

Cost=cost per month \* months

So, total budget can be Rs.15,000-20,000

**9. DATA FLOW DIAGRAM FOR CMS**

Statistics

View

Register

View

Login

Update

Add

VISITOR

USER

**CMS**

ADMIN

**10. USER CASE DIAGRAM FOR CRS**

Live Updates

Browse Information

Log in/Register

Visitor

Log out

Visit



Shape

Description automatically generated

Administrator

User

Download Information

Personal Information

Shape

Description automatically generated

**11.SEQUENCE DIAGRAM FOR CMS**

Check

Download Information

Browse Information

Login/Register

Add

Notify

Update

Admin

CMS

Give feedback

View

Live Updates

User