



**Volley Viction**

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**MAD-314**

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1. **PROJECT DESCRIPTION**

The volleyball management mobile app will function in Android mobile phones. Volleyball management application will cover every aspects of this sport. This Application will be designed in a way, that can be easily understandable to not only guests but also to league managers and team managers.

Basically, this application provides three types of roles, who can use this application such as league managers, team managers and guests. Where, league managers will be able to create and delete teams, seasons and also, they can create match schedules and can modify or enter match results. Team managers also have preceding role where he or she can edit information of their team. Every team have single team manager who can manage that team. Team managers have authority to add or delete their players. This describe very easy way, where each role can manage their duties effortlessly. And, Guests can use this application by keeping up with match schedules, winning teams, losing teams and other statistics. Guests have no authorities to make changes or make modifications to the application.

Here, we will be using Android studio to build our application. This application will be used by android phone users. We will be using SQL Server 2017 as our database which will collaborate with our app. Some platforms we will be using throughout building this application is GitHub, Android Studio etc.…

1. **REQUIREMENTS**
   1. **Functional Requirements**

The functional requirement provides the behavior of the system as it relates to the system's functionality. In simple words, it should be the ways in which the application should work.

This Application is classified between 3 users and so the functional requirements for all the users may vary.

1. **League Manager**

* Login/Register Authentication: League Manager have to be registered/login to the Application. Non-registered user or without logging in, they cannot access the application.
* Organize Seasons: Cegep Volleyball League is managed by League manager. He/She can organize seasons for the tournament. He/She can create schedules for the seasons.
* Manage Teams: The League Manager can manage all teams in the tournament. He/She can add the new team to the season and/or can remove the team from the tournament.
* Update Team’s Info: The League Manager is not bound to one team and so he/she can update the Team’s information like Name, Contact Information, Player’s Details, Add and/or Delete the player/s of any team, information of the respective Team Manager.
* Modify Results: League manager is responsible to update the results of each match after every tournament.
* Manage Profile: League Manager can manage their personal information like Contact Information.

1. **Team Manager**

* Login/Register Authentication: Team Manager have to be registered/login to the Application. Non-registered user or without logging in, they cannot access the application.
* Manage Team: Team Manager is bound to single team. He/She can manage only one team. One Team also has only one Team Manager.
* Manage Team Info: Team Manager can edit team’s information like Name, Color, Contact Information and ranking. Manager can also update the Player’s information like Name, DOB, Contact Details and also can add/remove any player in the team.
* Update Profile: Team Manager can update his personal information, Contact information.

1. **Guest**

* List of all teams: Guest can view all the teams of the League. They can view the details of the teams like the leader board and rankings.
* Upcoming Events: Guest can able to see the events of the day. They can also able to check out the upcoming events for the league.
* No Modifications: Guest who uses the application has no right to make any modifications or change the information in the application.
  1. **Non-Functional Requirements**

The non-functional requirement shows the running characteristics of the system. The basic and foremost requirement is efficiency and effectiveness of the app. If the app does not run smoothly and fast then nobody would show interest in using the app. Apart from these other non-functional requirements are:

* Up-to date: System should be updated when there is change from league manager or team manager.
* Performance: The System should behave accurately depending upon the server connection strength as well as from the database on which the data is taken from. The performance also depends on the device on which the application is running.s
* Maintainability: Maintaining the data of the tournament, players and related users and maintain it in timely manner.
* Security: System should only be accessible by the authenticated users.
* Accessibility: The System will be an android based application and going to be accessible on android phones.

1. **MOCKUPS**
2. **League Manager:**

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**FIG 1: MENU PAGE**

This screen represents different actions, such as, teams, players, sign out etc. that the league manager can take.

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**FIG 2: TEAM LIST**

This screen displays different number of teams. League manager can also edit teams.

1. **TEAM MANAGER**

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**FIG 1: MENU PAGE**

This screen represents different actions, such as, schedules, players, sign out etc. that the team manager can take.

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**FIG 1: TEAM Description**

This screen displays the entire description of a particular team, such as, Team’s logo, total number of players etc.

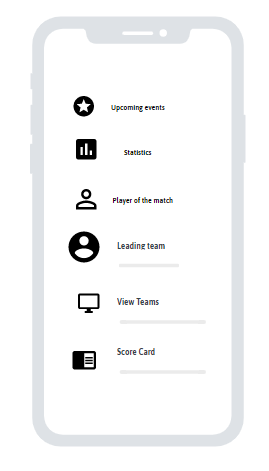
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**FIG 3: SCHEDULE PAGE**

This screen represents the schedule of a particular team. The team manager can view the venue, it’s date and timings and total number of matches that are going to take place.

1. **GUEST:**

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**FIG 1: Main Page**

If a new user opens the application, they can view the statistics, leader boards, upcoming tournaments and trivia about the tournament.

**4.Sequence Diagram**

**1.Manage Players**

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**2.Create/Add Match**

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