## Proposed Solution

The solution we proposed is to develop a system named “FFRS”. In FFRS, players are able to search and reserve a field listed on the system. It can suggest fields that are suitable for them and match other team to play with. The field owners can manage their fields and fields’ timeline by using this system.

FFRS includes a web application for field owners and a mobile application for players with following functions:

* 1. Featured functions

Web application:

* Provides the ability to manage field status for owners.
* Manage field timeline.

Mobile application:

* Search fields: players can look for fields using mobile GPS or by field name, time…
* Suggest fields: the system will suggest suitable fields for players.
* Match other teams: the system will match players with other teams, which have same level, to play with.
  1. Advantages and disadvantages
* Advantages:
  + Players do not have to go to field to reserve because the reservation transaction is proceed online.
  + Players can find opponent teams with the matching system.
  + Football owners can promote their fields using this application.
* Disadvantages:
  + Inability to yield best results because of the limitation of available fields or teams.
  + The ranking system may not represent team’s player skill and performance correctly because the system only manages team’s information.
  + Online payment may cause issues when a team cancels the reservation.

## Functional Requirements

The functional requirements are listed as below:

* Players component:
  + Reserve fields.
  + Manage rewards for using application.
  + Manage reservation requests.
  + Rate field and competitors.
* Field owners component:
  + Manage their fields: field owners can set field status, timeline and price.
  + Rate teams who have played in their fields after match.
* System component:
  + Suggest fields for players.
  + Match teams.
  + Process payment.
  + Calculate team and field rating score.
* Admin component:
  + Manage field owners and revenue.

## Roles and Responsibilities

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| --- | --- | --- | --- | --- |
| **No** | **Full Name** | **Role** | **Position** | **Contact** |
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| *Table 1: Roles and Responsibilities* | | | | |