## 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 field owners.
* Manage field timeline.
* Manage revenue and checkout online.

Mobile application:

* Search fields: players can look for fields using mobile GPS or by field name, time…
* View timeline of fields and reservate, checkout online.
* Suggest fields: the system will suggest suitable fields for players nearby position.
* Match other teams: the system will match players with other players, 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 competitors with the matching system.
  + Field owner can manage timeline of field more effective, all things is record in system.
  + With function set price for each time frame, field owner can look for players in bad times with cheap price.
  + Field owners can promote their fields using this application.
  + With rating online function, players will be received a lot of feedbacks about field to make right choice.
* 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, not have detail information for each player.
  + 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.
  + View timeline of field to reservate.
  + Manage reservation requests.
  + Rate field and competitors.
* Field owner’s component:
  + Manage their fields: field owners can set field status, timeline and price.
  + Rate teams who have played in their fields after match finished.
* System component:
  + Suggest fields for players.
  + Match teams have same level to play together.
  + Process payment between players and system; betwwen system and field owners.
  + 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* | | | | |