## Proposed Solution

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

FFRS system includes a web application and a mobile application 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 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 teams’ rank.
  + 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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Full Name** | **Role** | **Position** | **Contact** |
| 1 | Kiều Trọng Khánh | Project Manager | Supervisor | khanhkt@fpt.edu.vn |
| 2 | Mai Minh Quý | Developer | Leader | quymmse61610@fpt.edu.vn |
| 3 | Trương Hữu Thành  Trương Hữu Thành | Developer | Member | thanhthse61493@fpt.edu.vn |
| 4 | Phan Minh Huấn  Phan Minh Huấn | Developer | Member | huanpmse61860@fpt.edu.vn |
| 5 | Phạm Trung Hiếu | Developer | Member | hieuptse60874@fpt.edu.vn |
| *Table 1: Roles and Responsibilities* | | | | |