<Summary>

"ForAs" is a blockchain-based 'individual personal player management service' that analyzes sports team's training statements or diets and provides each player with information of what they need so they can improve their skills. ForAs has a network of all the team members such as a coach, players, medical team etc. Every member of the network can save data of players such as their daily training, diets, health statements. The data is stored cryptographically in the blocks so anybody who doesn't belong to the network cannot access to these data. ForAs analyzes the data stored in the blocks and provides each member with personal consulting about training strategy and future training directions. When something happens to the players, it also suggests a better solution to fix the problem. ForAs makes it possible to check players' conditions, and is a perfect tool for managing players' training and help them practice in a better environment.

<Benefits for end-users>

The key benefits the end-users of this service could get are "security", "time efficiency", and "convenience".

First, ForAs reinforces the security of all the data of each member using blockchain. In details, each member's data is stored in the blocks of each node, and it can be accessed by only the members in the same network. When it comes to change the data of the blocks, however, it needs approvals of at least half of the member of the networks to get authorized to modify the data. If anyone who is not a member of the network tries to hack the network and change the data, they need to access all the data in every node and change them all, which means impossible.

Second, ForAs helps players reduce time to manage their data. When users save a new data, the data is stored in every user's blocks. When another user wants to access the other user's data, they don't need to access the other chain, because the same data is also stored in every user's server.

Last, ForAs makes it more convenient to manage players. Let's imagine that one player got a severe stomachache. The medical team reports the data of the player's condition and it's saved in a new block. This data is stored every user's server, so everybody in the team can immediately get the information of the player. It can help them find a solution quickly. Let's think about another case. The coach of the team found out that some player recently started to show worse results. When the coach reports the data of the player, not only the coach but also other people in the team can prepare for the next step for the player.

<Detailed contents>

We are trying to make a service that helps manage players training conditions in perfect security for upcoming Olympics. The issues that we thought are the most important for this service are 'security' and 'personal consulting'. We will use blockchain for the security of this service. We want to save all the messages the team members have sent to each other, and based on the messages, we would like to provide each person with the best personal training strategy.

At first, all the Olympic participants will be classified by their nations. We are going to make a P2P network per one country. In this network, the people who have same positions or sports team will compare a private blockchain, and they will get authorized to get into this network. In this situation, blockchain will protect each network from another.

<Technical approach>

ForAs is consist of each nation's P2P networks. It has no central server. Every user is one node with a distributed server, so they can share their data with other nodes. Each country's network has several private blockchains according to the users' positions and sports types, and they already have the list of participants. The participants include every person who participates Olympic such as players, coaches, medical team etc. Therefore, every participant can read and write the data of other people in the same network.

The list of the members is stored in DB with hash values. In the DB, there is a list of the members' serial number, name, birthday, and contact number. The participants are given their own serial numbers. They can get authorized to get into the private network with their own serial numbers, name, birthday, and contact numbers. There are two types of interface they will see on the app. 1) When they get into the network, they are given the interface where they can read and write the data. 2)When they fail to get into the network, they are given 5 times of retrials. If they fail to log in more than 5 times, the system considers them as they are not one of them and block them to log in.

When they want to input any data, their position, types of sports, name are required, and they can rank the data in order of how important they are. There are two ways they can input data.

The first one is a checkbox. Checkboxes are provided with a dropdown that has information about players' conditions. You can also rank the importance level of data as top/middle/bottom.

Another one is provided with text fields so people can give a general description of players' conditions. In this way, people can write more specific, detailed information.

Before all the data is stored, every participant gets push notification. When more than half of the member approves of the data, the data finally can be saved in a new block and the block is added to every node's blockchain.

<Business model>

ForAs is a service that provides sports players with an excellent personal training consulting with high-quality of security using blockchain. People input everything about players' training such as what they did, what they eat, and blockchain protects this information from hacking. Based on those data, we suggest the best way to improve their skills.

This service can be used not only for training players but also managing employees in many groups or companies. These days, many small and medium-sized businesses are having trouble finding employees, and major companies are in trouble because of the large number of people who are leaving their companies. Our service can help them find out what the real problem is and what their employees are complaining for so they can find a solution for the problems they have.

Even if there are a lot of things we should think about and many parts of our app are not perfect yet, once the system of our app is completed, ForAs will be an amazingly useful tool for many people, group, or business.