



HOOPS Team Software

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EECE 430: Software Engineering

INTRODUCTION

With all industries and businesses turning to technology in order to improve performance and enhance production, the world of major sports is catching up with its work in analytics and online presence. Furthermore, many teams are now providing their own personal applications to their employees in an attempt to create a more dynamic and efficient environment for their members. The following report lists the requirements that will be offered in the application that we are developing for a Basketball Team.

The software proposed is designed for the Basketball Club in question and its supporters. In the spirit of facilitating interaction between the club and its fans and make communication faster within the club itself, the idea of this app emerged. The exact functionalities of the software are still in discussion and this document paves the way towards a final design of the application. The application should be easy to navigate by all four types of users: fans, players, coaches and management.

We used NoSQL Database because it provides a fast real-time mechanism for storage and retrieval of data that is modeled in means other than the tabular relations used in relational databases.

In this User Manual we will present to you the different functionalities of our mobile application. Our application consists of a multisided platform, where Hoops Basketball Club, coaches, players, managers and fans can interact. We have designed specific functionalities for each of these four groups that will enable them to perform their routine and necessary activities in an easier and more efficient manner. In this short document we will invite you to explore and navigate the different offerings of our mobile application that will definitely save-time for our users and make their experience more enjoyable by minimizing misunderstandings and enhancing communication between the different players involved.

Which devices does the mobile app support?

You can install Hoops App on any mobile devices that have iOS (iPhone, iPad, iPod) operating systems. Hoops App requires iOS 7.0 and above.

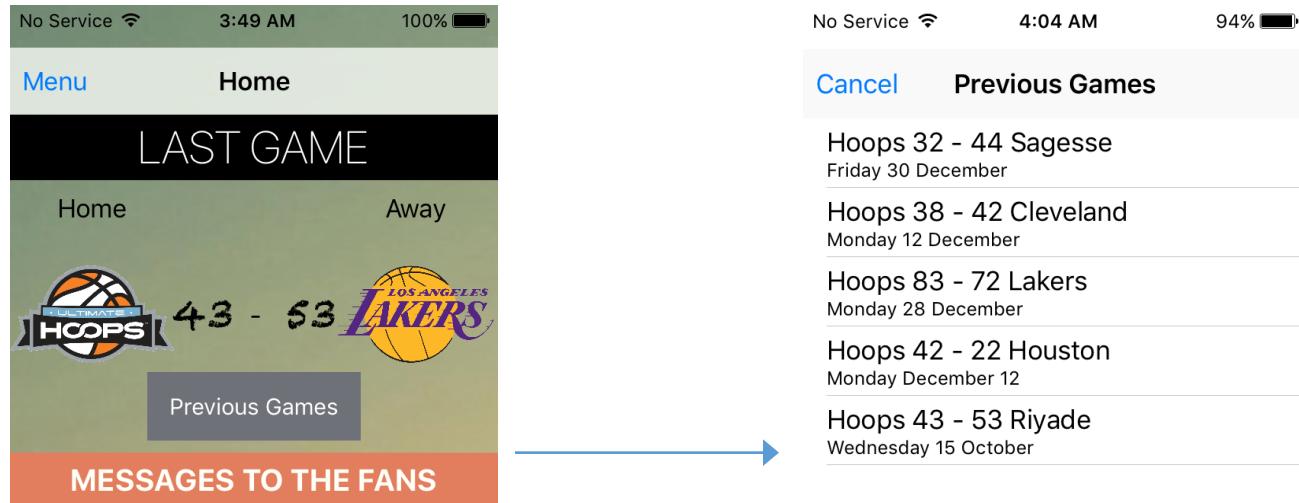


HOME

The Home Section of the app is the main screen of the fans.

It shows them the last score of the last Game alongside with Messages that are posted by the managers, coaches, or players.

The fans can also press on “Previous Games” to check the list of scores of all the previous games that are added by the Manager.



Come to our game
Come to our next game on Tuesday and support...

Thank you for your donations
We earned \$10,000 of donations last month, than...

To go back to the previous screen, the user should press “Cancel” on the top left of the screen.

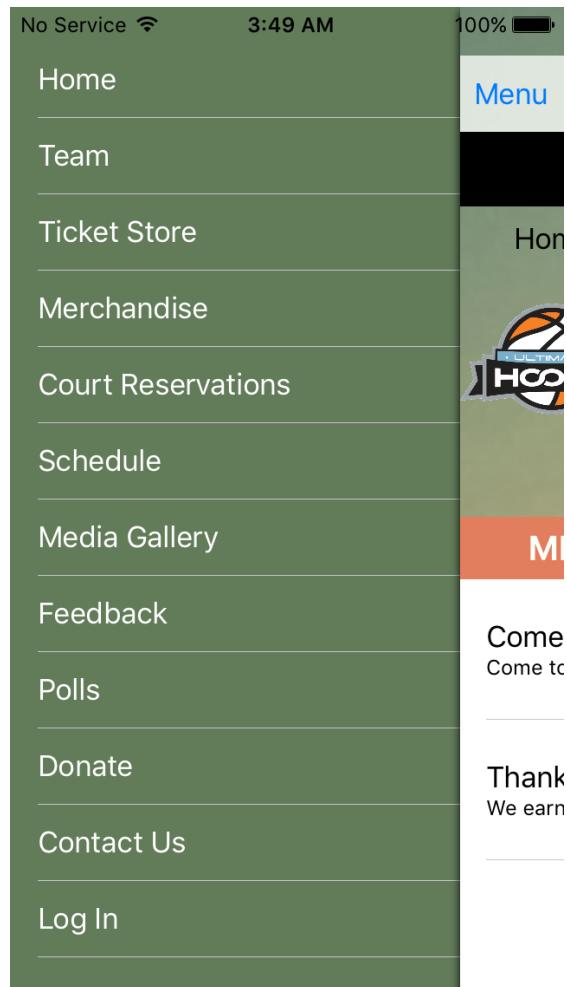
FANS

The first destination when the users open the app is the fans' section. By pressing menu on the top left corner, they can access a set of sections that would offer them many services.

The first section, called "Team", gives the fan the capability of accessing information about the team that are constantly updated by the managers.

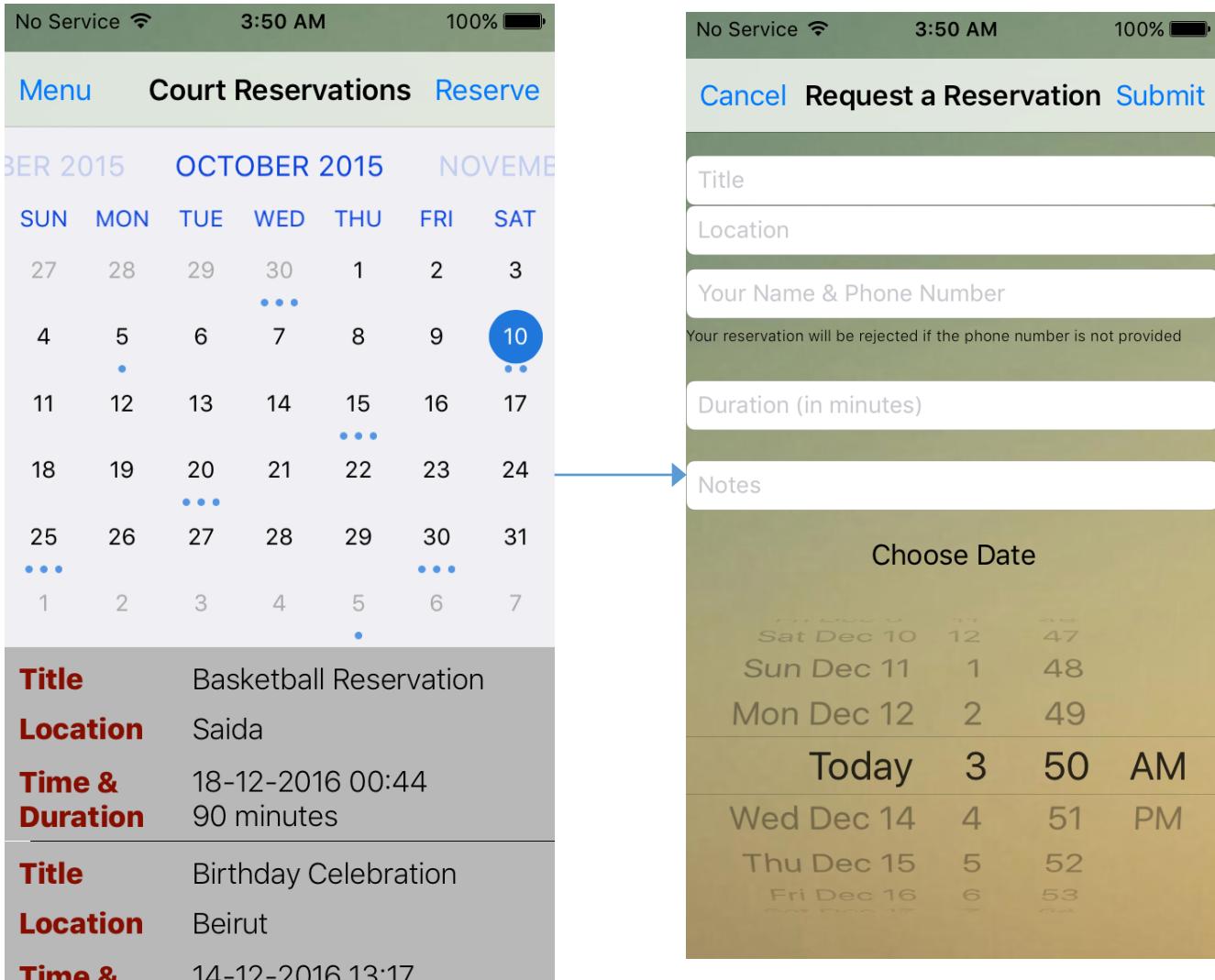
They can access the team's history, statistics (top scorers and defenders), the awards, and a list of the players of the team.

The second section, which is one of the most important sections, is the Ticket Store. The fan is able, through his phone, to instantly buy and reserve tickets for future games. The fan can select the type of his ticket, depending on the stadium, ranging from regular tickets to Ultra VIP tickets.



Through this app, the public is also able to request court reservations from the managers. That could be for different reasons like personal trainings, friendly games, or even gala dinners.

To reserve a court, the user should press on “Reserve” at the top right corner of the screen which would take him to the “Request a Reservation” page.



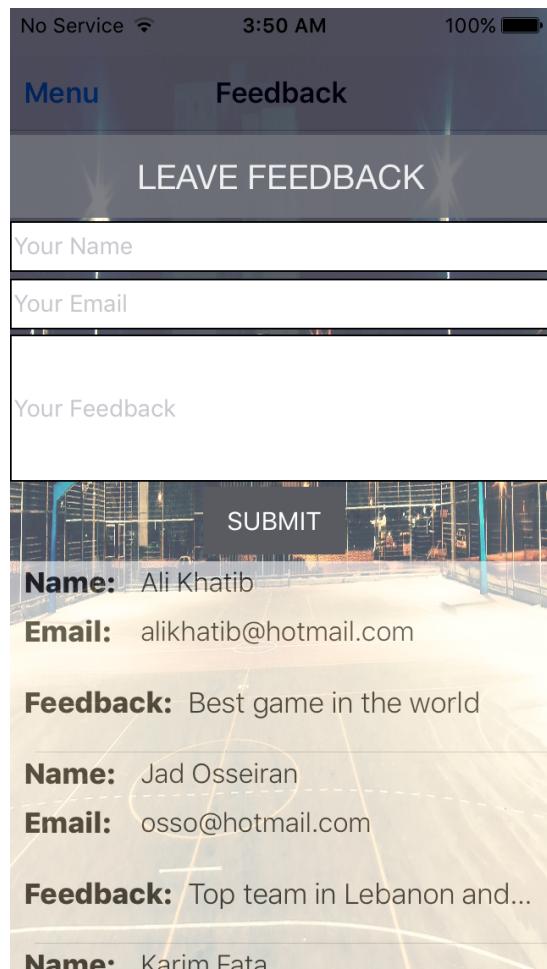
The team's schedule, ranging from training sessions to final tournament matches, is available to the public.

Moreover, by pressing on “Media Gallery”, the public is able to access photos uploaded by the manager. These photos can range from training sessions to pictures of the fans with the players and other members of the team.

Other options available are Feedback, Polls, Donate, and Contact Us.

Fans can submit their feedback to the team which is viewed by everyone and controlled by the managers.

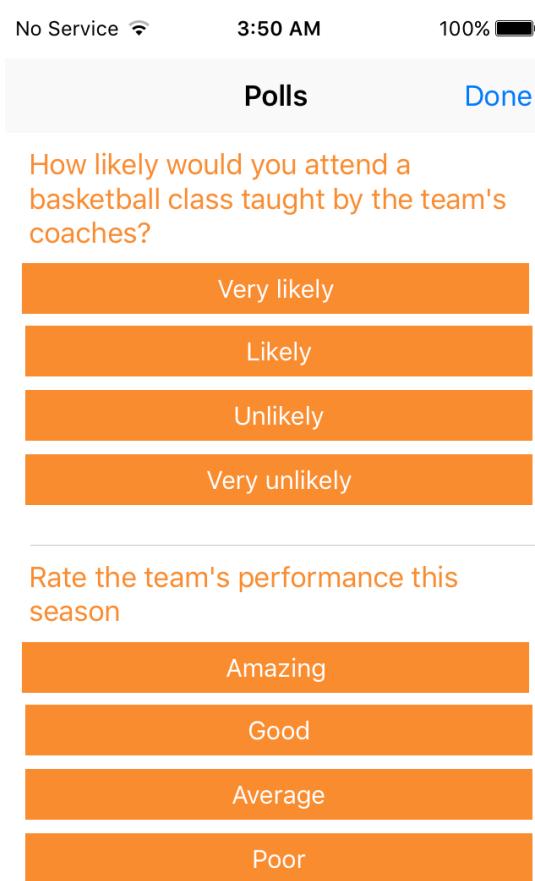
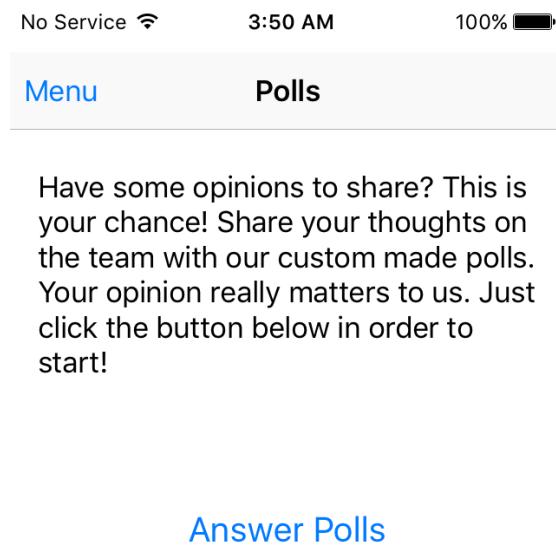
By entering all the fields, and then pressing “Submit”, the fan can leave a feedback to the team.



Polls, an additional section for the fans, are there to make the team even better. Fans can submit their opinions about the team and answer questions that the managers would like to know.

Choose “Answer Polls” to start answering.

Then choose one of the options in order to submit your answers to the management of the team.



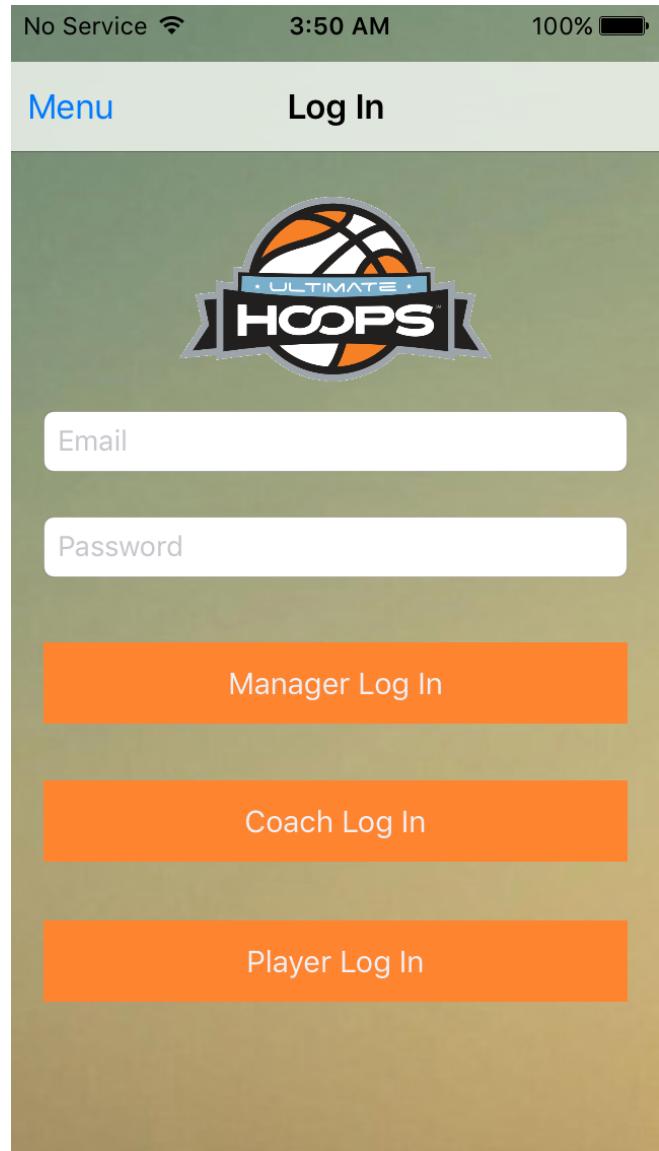
By pressing the “Log In” section, members of the team can access more specific features.

The user enters his Email and Password in the required fields.

The manager logs in by pressing on “Manager Log In”

The player logs in by pressing on “Player Log In”

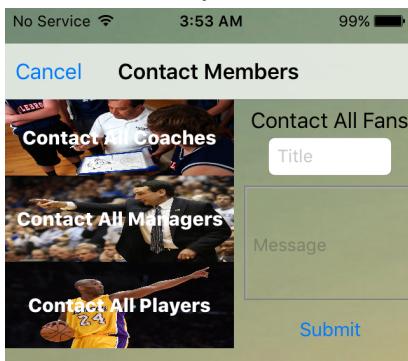
The coach logs in by pressing on “Coach Log In”



PLAYER

We will first present to you the player side modules. The player can do a number of things on the app such as looking at assigned tasks for him by the coach, see the workout plan and diet plan individually designed for his personal needs.

The first option in the player menu is the “View Salary” option, clicking this button enables the player to see his current salary, as well as track payments through a little



Player Ali Hajj

Player Lebron James

Manager Omar Droubi

Coach Ali Moukallid

Coach Gabriella Bekai

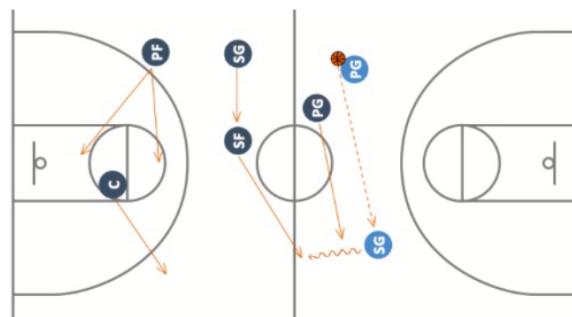
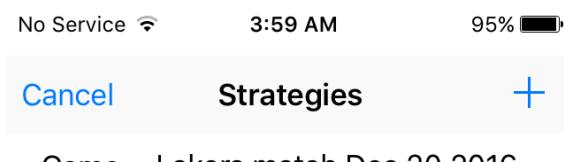
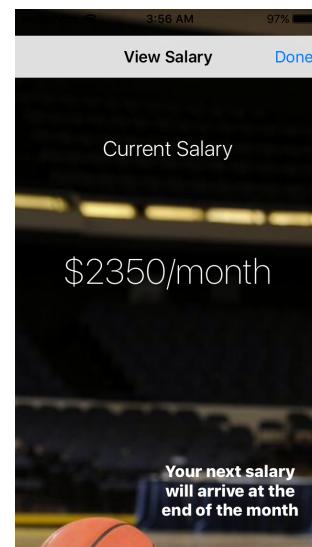
Coach John Cena

Coach Ryan Makhoul

label at the bottom right hand-side informing him of the date of the next deposit to be made.

Further down the menu, the “Update Personal Information” feature allows players to update their address, phone number and other specifics in order to insure contact with coaches and manager, as well as with other players.

The next feature on the player’s menu is the “Contact Members” feature and allows players and to contact teammates, coaches and managers through email, phone, text message as well as other media in a fast and practical way. Clicking a name on the directory will pop up a menu allowing you to select the medium of contact you wish reach that person through.



Next, the starting lineups feature eases communication between coaches and players about starting lineups for future games. It also keeps track of the history of lineups for past games marking down the game's date along with each player's name followed by its position on the field.

No Service		3:50 AM		100% 		
Menu		Schedule				
SEP 2015		OCTOBER 2015			NOVEME	
SUN	MON	TUE	WED	THU	FRI	SAT
27	28	29	30	...	1	2
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
...				...		
1	2	3	4	5	6	7

Title	Pre-game Meeting
Location	Jounieh
Time & Duration	07-12-2016 03:51 50 minutes
Title	Training Session
Location	Hoops Airport

The “View Strategies” feature visually communicate the coach’s chosen strategy for the upcoming game to better keep the players in the loop. It also allows each player to view the historical game strategies.

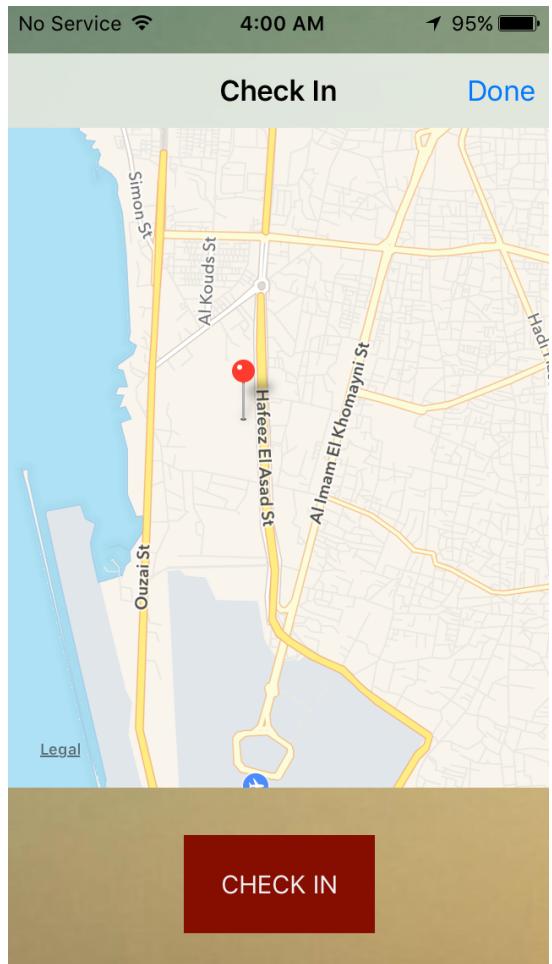
In addition our app is also meant to organize the players’ schedule and making important information accessible to each one of them. For that, we have incorporated an easy to use “Schedule” feature where players can edit their schedule by pressing the “+” button on the top right-hand-side of the screen. The “New Event” page will appear, that allows you to create an event. To create an event you have to give it a title, precise its location, duration, date and optionally provide notes. To create the event, press the

“Add” button on the top right-hand-side, to cancel, press the “Cancel” button on the top left-hand-side of the screen. In order to delete an existing event select the event by tapping it and swipe left. A “delete” option marked in red will appear.

Next on the menu, the “Check-in” option uses geo-location techniques to locate the player and allows him to check-in to a training session or an even when his location coincides with that of the event. To check in, simply tap the red “Check-in” button on the bottom of the screen.

Under the “Check-in” button in the player’s menu, a player can press the “Diet Plan” button and will be able to view the diet plan individually assigned to him by the coach. The plan has a starting and ending date as well as specifics that the player must abide by.

The “Workout Plan”, feature is very similar to the diet plan feature and the player only has access to a view only option.



COACH

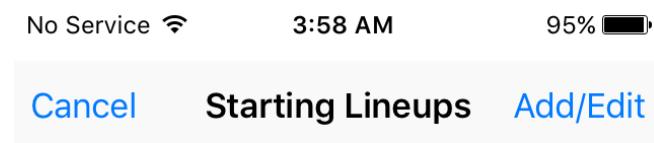
The “View Salary” feature, similar to that of the players allows the coach to access information about his salary and next payment.

The “Contact Other Members” feature allows the coach to contact other members in a similar fashion to that offered for the players.

The “Upload Line Up” allow the coach to change the line-up, by editing the starting players and their positions.

To edit or add a customized line-up the coach will press the “Add/Edit” button on the top right-hand-side. He will get a new View Controller where he is prompted to enter the name of the Game, the Data and fill-in the positions with players from the Roster.

Next down the menu is the “Upload Plans” features allow the coach to change the current playing tactics and strategies. To upload a plan, the coach has to press the “+” button on the top right-hand-side. He will input the game name and date and browse for a picture to upload that shows the strategy to be adopted by the team. It is an effective way for the coach to communicate his strategical intentions to his team.



Game: Game versus Lakers

Date: 5/1/2017

Point Guard: Zachary Conte

Shooting Guard: Jake Bauer

Small Forward: Levi Starks

Power Forward: Thomas Ingram

Center: Tarik Randle

The “Schedule” feature has the same functionalities for the coach than for the players.

The “Upload Diet Plan” option allows the coach to assign a diet plan for each of the players. The coach clicks the “+”button on the top right-hand-side and enters the name of the player, the end and start dates as well as the diet specifications.

The procedure for the “Workout Plan” feature is very similar.

No Service	3:54 AM	98%
Cancel	Edit Schedule	+
Title	Pre-game Meeting	
Location	Jounieh	
Time & Duration	07-12-2016 03:51 50 minutes	
Title	Training Session	
Location	Hoops Airport	
Time & Duration	06-12-2016 20:54 90 minutes	

The coach will also have access to 1 more feature, which is viewing the polls results. He can as well make a poll by clicking the “+” button on the upper right-hand-side and entering the question for the poll as well as 3 possible answers.

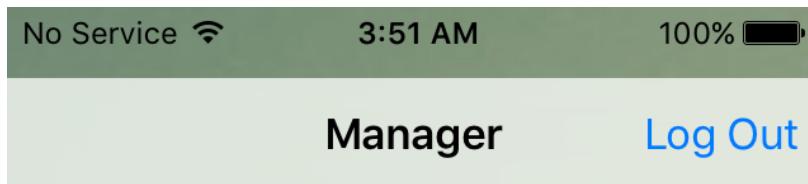
The coach can also update his personal information. By tapping on the last feature: “Update Personal Information”, the coach will be able to change his password and update his personal information that is stored in the database (Birthday, Address, and Phone Number).

To log out, press on “Log Out” at the top right of the screen.

MANAGER

By logging in as a manager, the app becomes in your control.

A table of options specifically chosen for the managers appear on the screen.



Manage Polls

Manage Scores

Medical Histories

Salaries

Donation Requests

Contact Other Members

Plans and Strategies

Manage Court Reservations

Edit Schedule

Attendance

Book Services

No Service

3:51 AM

100%

Manager

[Log Out](#)

Contact Other Members

Plans and Strategies

Manage Court Reservations

Edit Schedule

Attendance

Book Services

Update History Information

Manage Media

Manage Tickets

Team Members

Update Personal Information

By going to “Manage Polls”, the manager can see the statistics of each poll (number of responses to each answer).

No Service  3:52 AM 100% 



Title: Rate the team's performance this season

Answers Statistics

Amazing 5

Good 1

To delete a Poll, swipe left from the screen to reveal the delete button, then press “Delete”. On the other hand, to add a Poll, press on the “+” button and then enter the required fields.

The manager can also go to “Manage Scores” to manage games and add game scores and dates to show them to the fans at the Home sections.

No Service 3:52 AM

Cancel Games Manager

Add a Game

Date Date

Home Team

Home Team

Points

Points

Submit

Previous Games

Hoops 32 - 44 Sages
Friday 30 December

Hoops 38 - 42 Cleve
Monday 12 December

Hoops 83 - 72 Laker
Monday 28 December

Hoops 42 - 22 Houst
Monday December 12

The manager can also go to “Salaries” to manage salaries by setting a new salary to

No Service 3:53 AM 99%

Done Salaries

Update Salary

Email Salary

Email New Salary

Update Salary

List of Salaries

Coach Ali Moukallid
\$4100 per month

Coach Gabriella Bekai
\$10 per month

Coach John Cena
\$6000 per month

Coach Ryan Makhlof
\$2350 per month

Player Ali Hajj
\$1000 per month

Player Lebron James

specified members of the team. This is an easy process, which is made by writing the new information in the specified fields and then pressing “Update Salary” which would automatically update the data on all devices running the app.

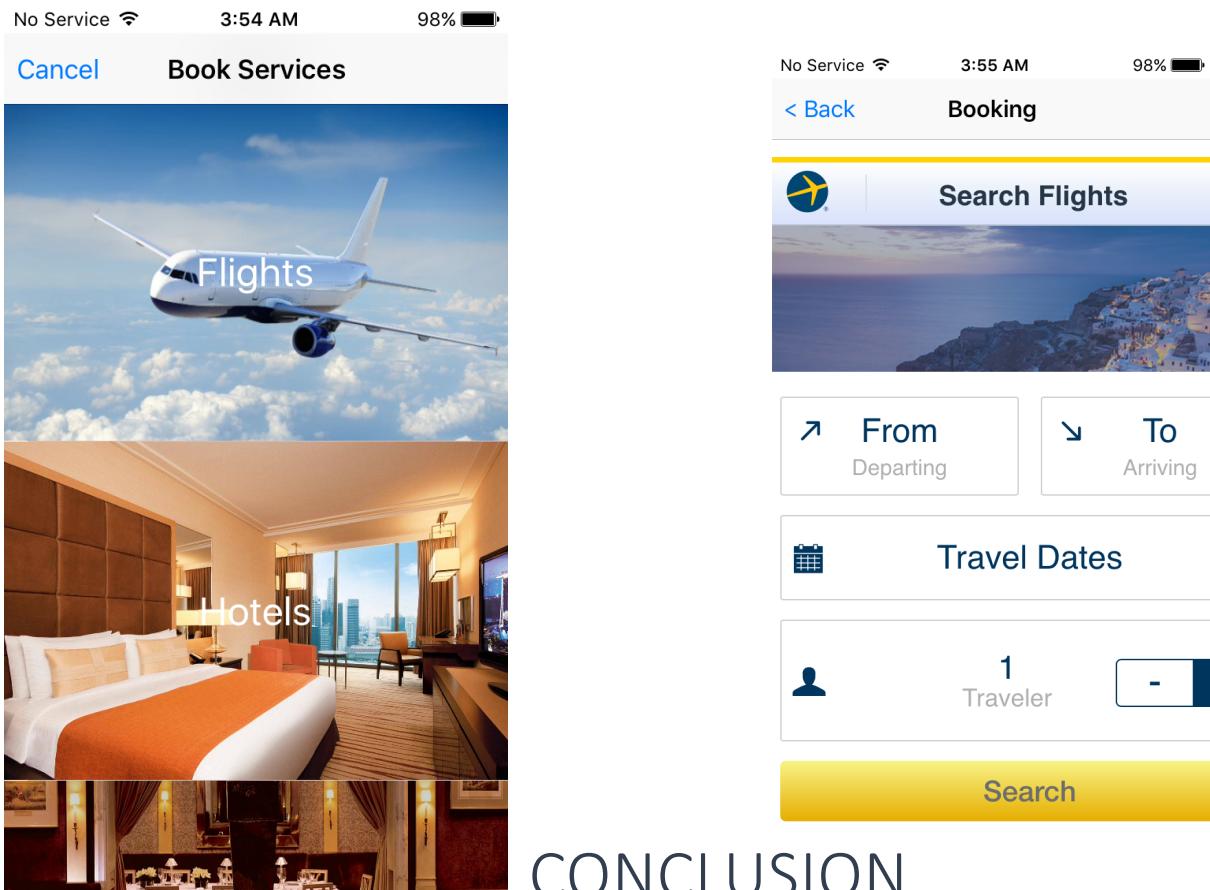
Refer to the player section, the manager can also contact all members, personally or in groups.

The manager, also same as the player, can view the plans and strategies posted by the coach.

One of the most important features that the manager has is that he can directly book and reserves airplane tickets, hotels, restaurants, and transportation for the team from the app.

When the manager presses on “Flights”, he gets directed to www.expedia.com which would offer him the fastest and cheapest tickets.

When the manager presses on “Hotels”, he gets directed to www.expedia.com which would offer him the fastest and cheapest tickets.



CONCLUSION

The functions mentioned above aim on solving the needs and wants that arise within a sports organization. This application creates a platform that will unify and meet the company's requirements. The platform will be usable online and through an iPhone application. We will be utilizing online servers to store all the data that will be uploaded to the system.

Contact our team:

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