



SSDI



# 49ers SPORTS EXPRESS



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# HIGHLIGHTS



- Objective
- Hypothesis
- Functionalities
- Technologies Used
- System Architecture
- UML Diagrams
- Screen Shots

# OBJECTIVE



Develop a user friendly Android Mobile application that provides a one-stop access to the Intramural Sports, Fitness Events, Sports Equipment Checkout/Check-in for the students of UNC Charlotte.

# HYPOTHESIS

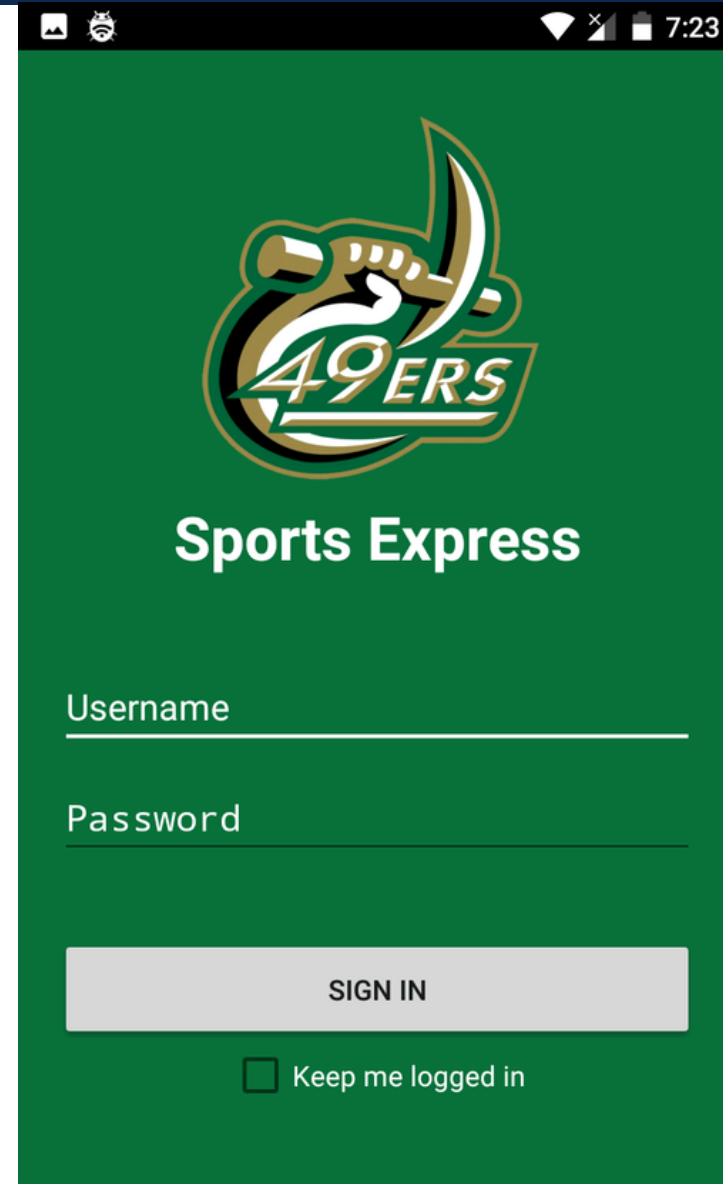


We have access to the Active Directory of the UNC Charlotte. Thus we need not register or create new accounts and could use the existing account for accessing the Mobile application.

# FUNCTIONALITIES

HOME PAGE

- User will be able to login using his/her ninerID credentials .
- The Keep Me Logged In checkbox keeps the session alive until the user logs out of the application manually.

A screenshot of a mobile application's login screen. The background is a solid green color. At the top, there is a status bar with icons for signal, Wi-Fi, and battery, and the time 7:23. Below the status bar is a large logo for the "49ERS" (San Francisco 49ers) in gold and white. Underneath the logo, the text "Sports Express" is written in white. There are two input fields: "Username" and "Password", both with white text on a green background. Below the "Password" field is a grey button with the text "SIGN IN" in white. At the bottom, there is a checkbox with the text "Keep me logged in" next to it.

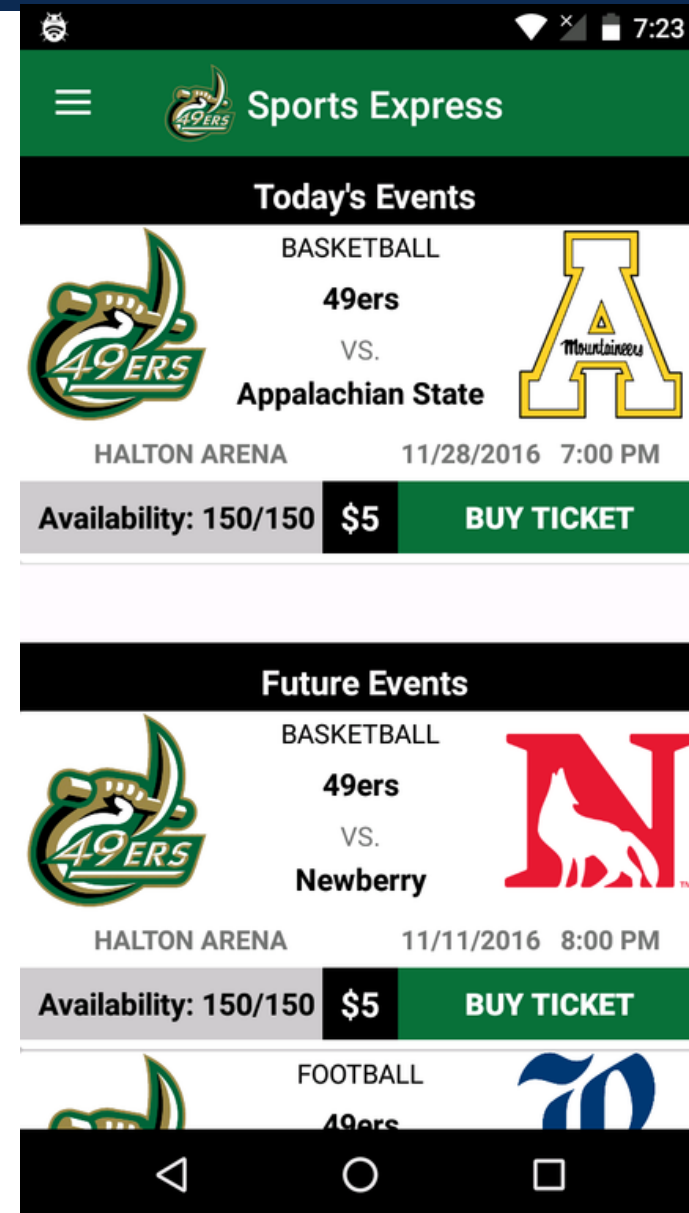
Username

Password

SIGN IN

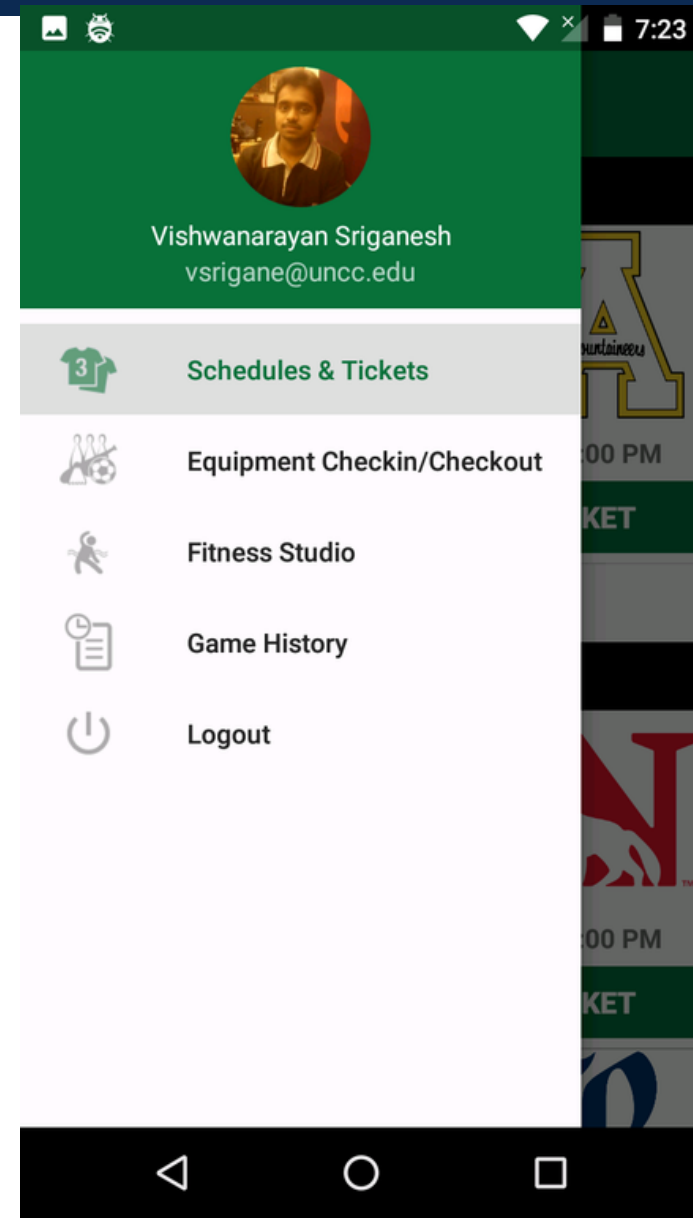
☐ Keep me logged in

- This is the landing page of our application.
- Schedules for all the ongoing and upcoming games with an option to book tickets is displayed



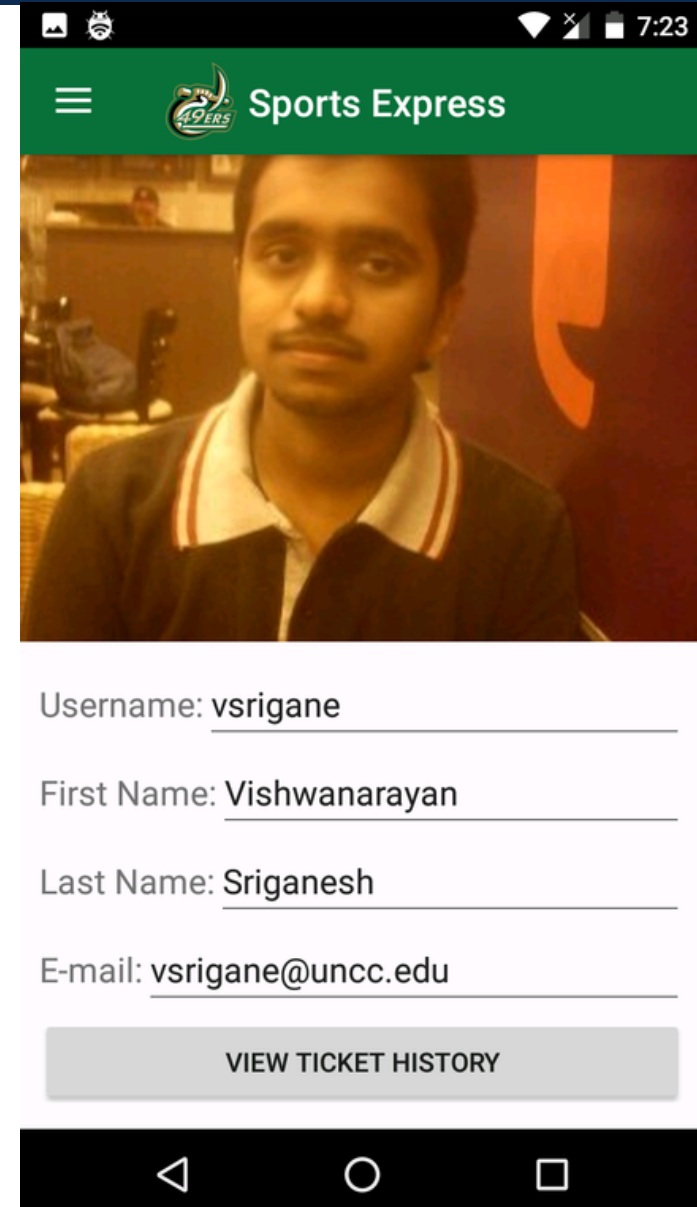
## MENU NAVIGATION BAR

- User can navigate through the application using this bar.



## USER PROFILE PAGE

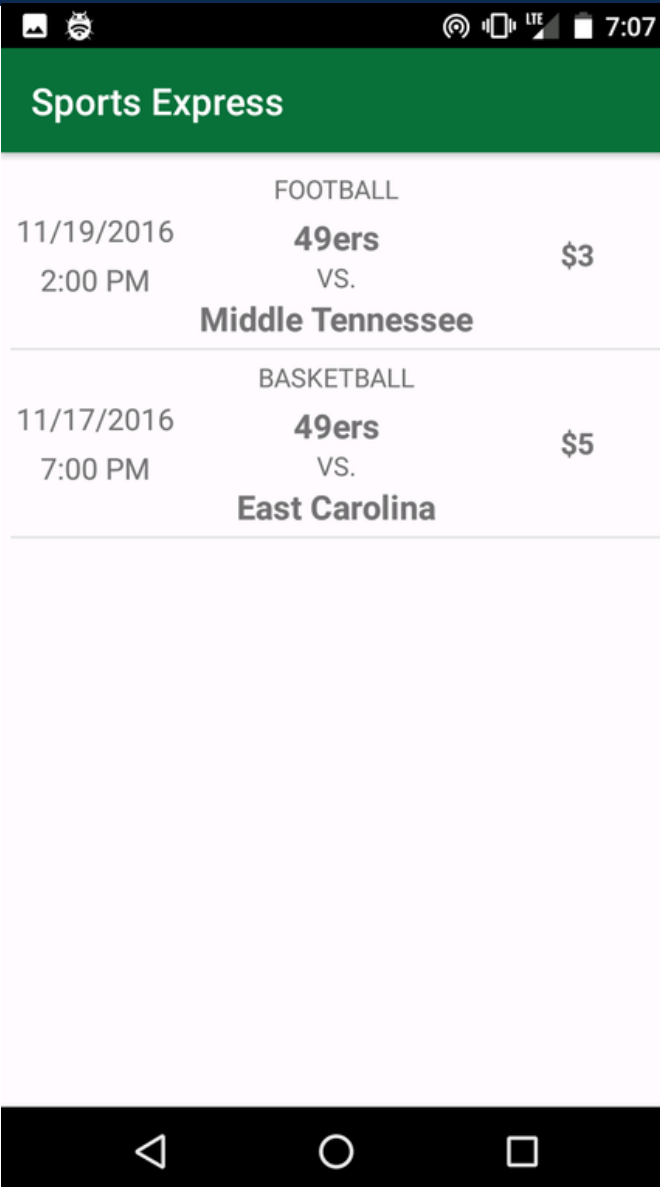
- This is a read only user profile page that displays personal information of the user and a provision to see the user's booked ticket history.





## TICKET HISTORY PAGE

- This page displays the tickets purchased by the user till date.

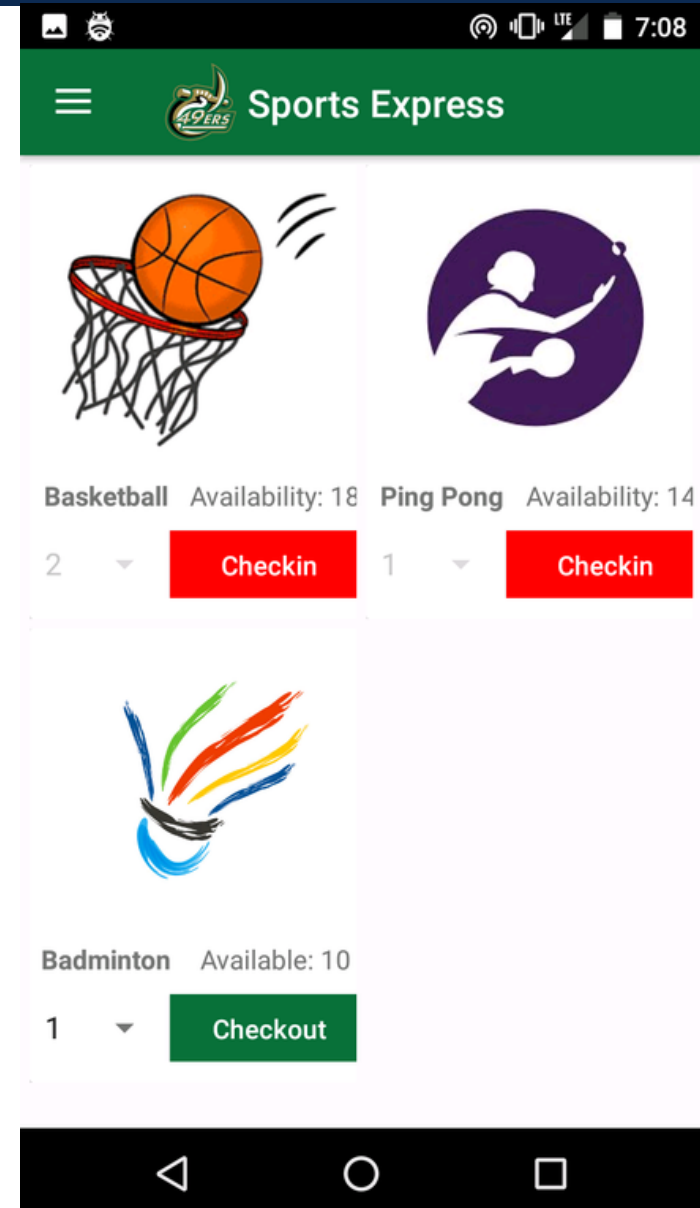


The screenshot shows a mobile application interface for 'Sports Express'. At the top, there is a green header bar with the text 'Sports Express'. Below this, the ticket history is displayed in a list format. The first entry is for a football game on 11/19/2016 at 2:00 PM, featuring the 49ers vs. Middle Tennessee, with a ticket price of \$3. The second entry is for a basketball game on 11/17/2016 at 7:00 PM, featuring the 49ers vs. East Carolina, with a ticket price of \$5. The bottom of the screen shows the standard Android navigation bar with back, home, and recent apps buttons.

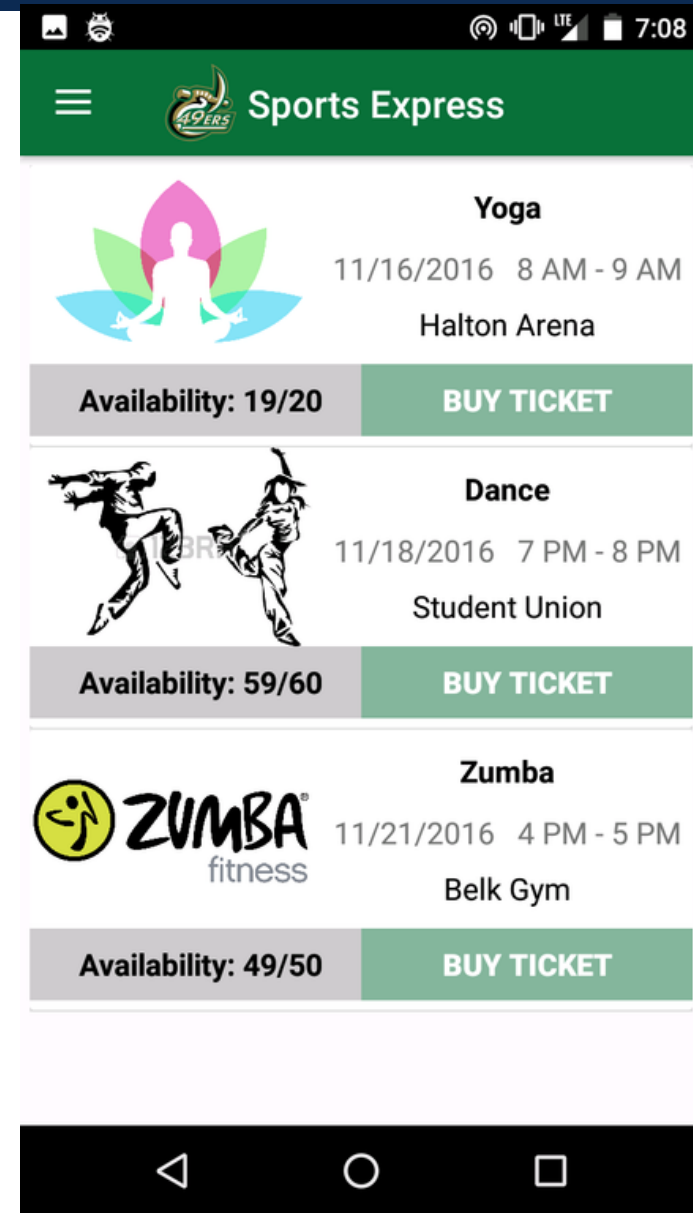
Sports Express		
	FOOTBALL	
11/19/2016	<b>49ers</b>	\$3
2:00 PM	VS.	
	<b>Middle Tennessee</b>	
	BASKETBALL	
11/17/2016	<b>49ers</b>	\$5
7:00 PM	VS.	
	<b>East Carolina</b>	

## EQUIPMENT CHECKIN & CHECKOUT PAGE

- This page displays the list of the available sports equipment for the user and enables the user to CheckIn and CheckOut them.

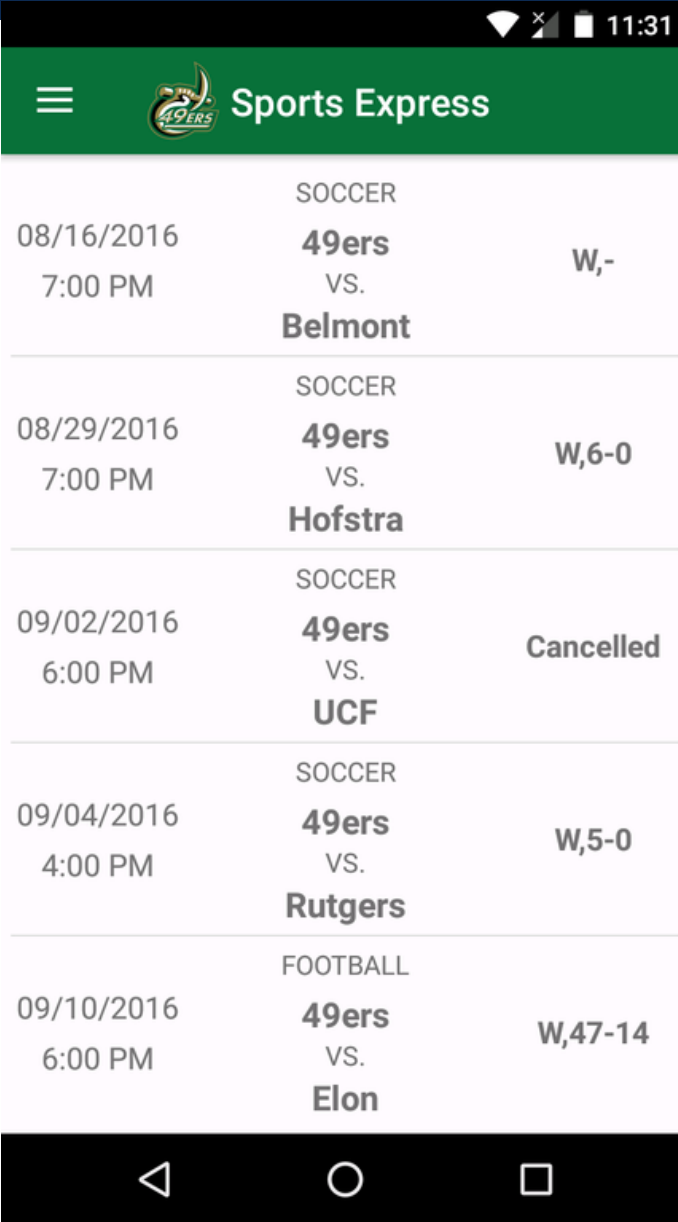


- This page displays the list of the upcoming fitness events and also allows the user to RSVP it.



## GAME HISTORY PAGE

- This page displays the concluded games and their result .



The screenshot shows a mobile application interface for 'Sports Express'. At the top, there is a green header bar with a hamburger menu icon, the '49ers' logo, and the text 'Sports Express'. Below the header, the game history is displayed as a list of rows. Each row contains the date and time of the game, the sport type, the teams involved, and the final result. The games listed are all soccer matches from August to September 2016. The bottom of the screen shows a standard Android navigation bar with back, home, and recent apps icons.

08/16/2016 7:00 PM				SOCCER <b>49ers</b> VS. <b>Belmont</b>	W,-
08/29/2016 7:00 PM				SOCCER <b>49ers</b> VS. <b>Hofstra</b>	W,6-0
09/02/2016 6:00 PM				SOCCER <b>49ers</b> VS. <b>UCF</b>	Cancelled
09/04/2016 4:00 PM				SOCCER <b>49ers</b> VS. <b>Rutgers</b>	W,5-0
09/10/2016 6:00 PM				FOOTBALL <b>49ers</b> VS. <b>Elon</b>	W,47-14

# TECHNOLOGIES USED



# SYSTEM ARCHITECTURE



Google Cloud Platform

Mobile App



Android SDK

User Request in HTTP form

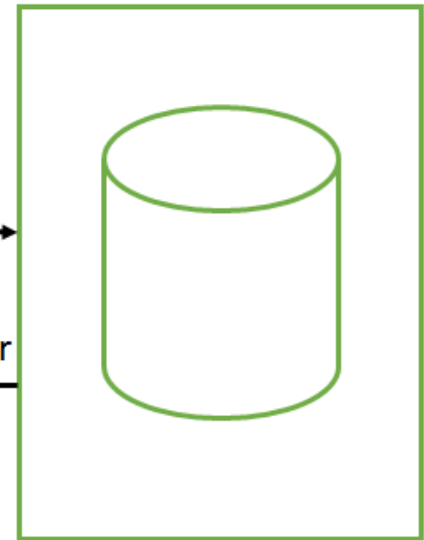
Response in JSON format



Middleware : nodeJS

DB Request

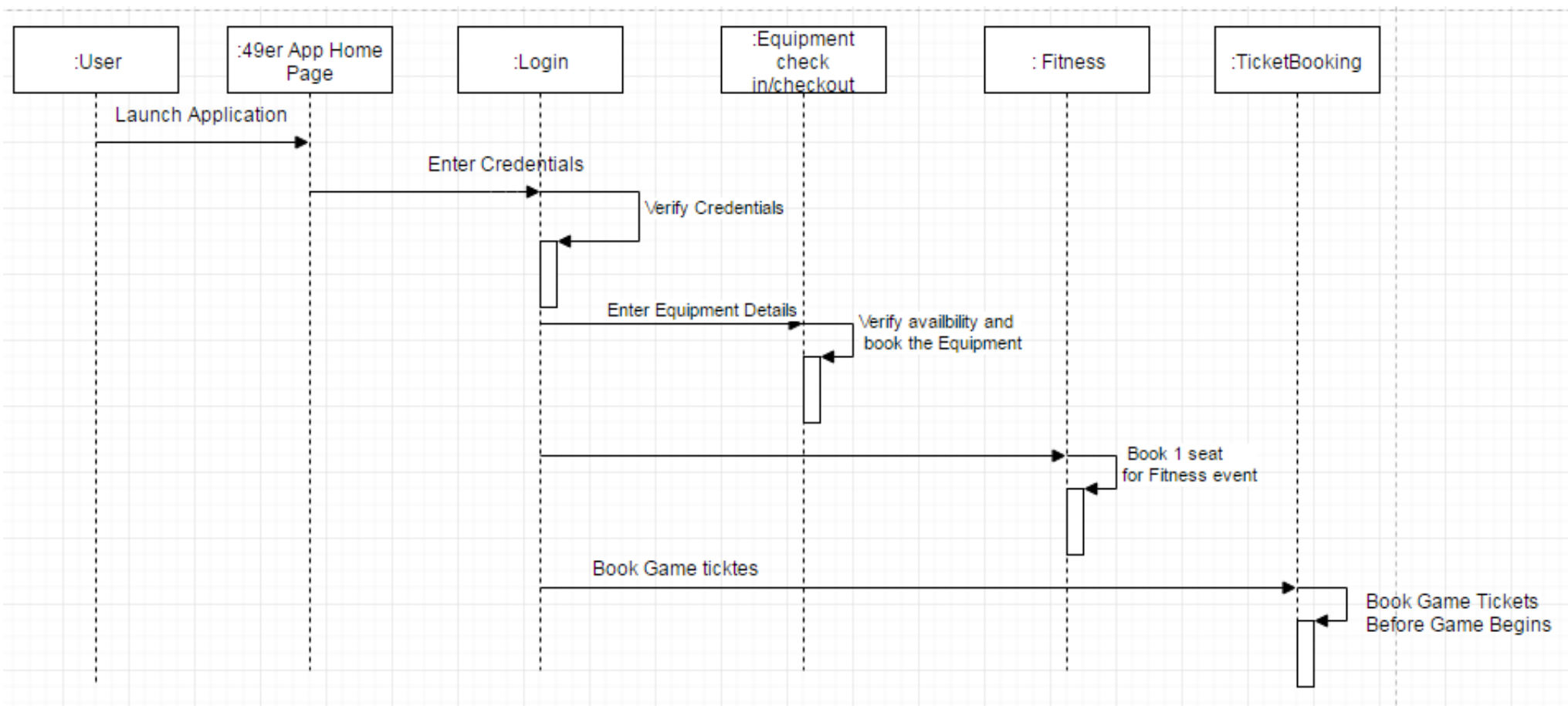
MongoDB NodeJs Driver



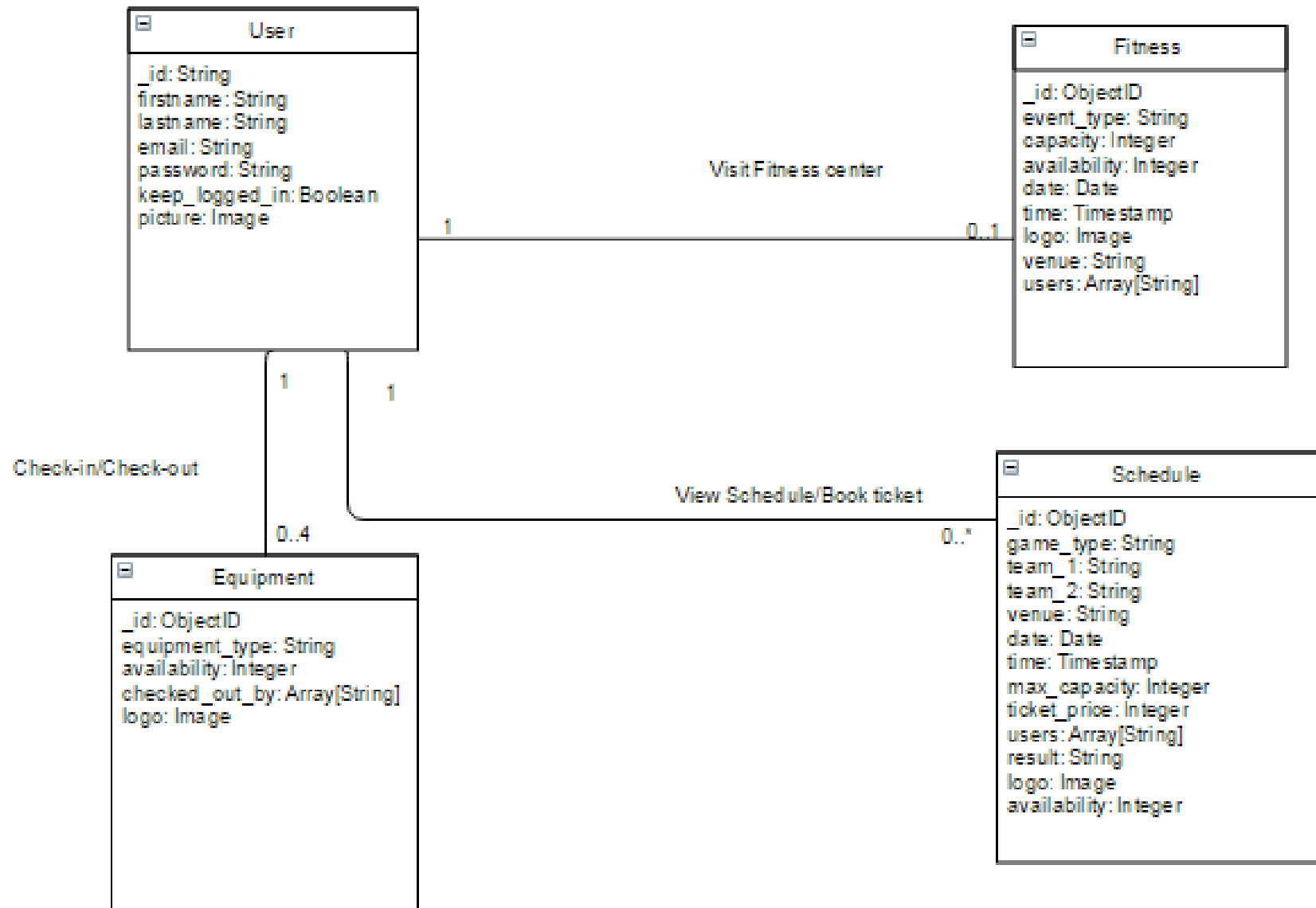
MongoDB

# UML DIAGRAMS

## SEQUENCE DIAGRAM

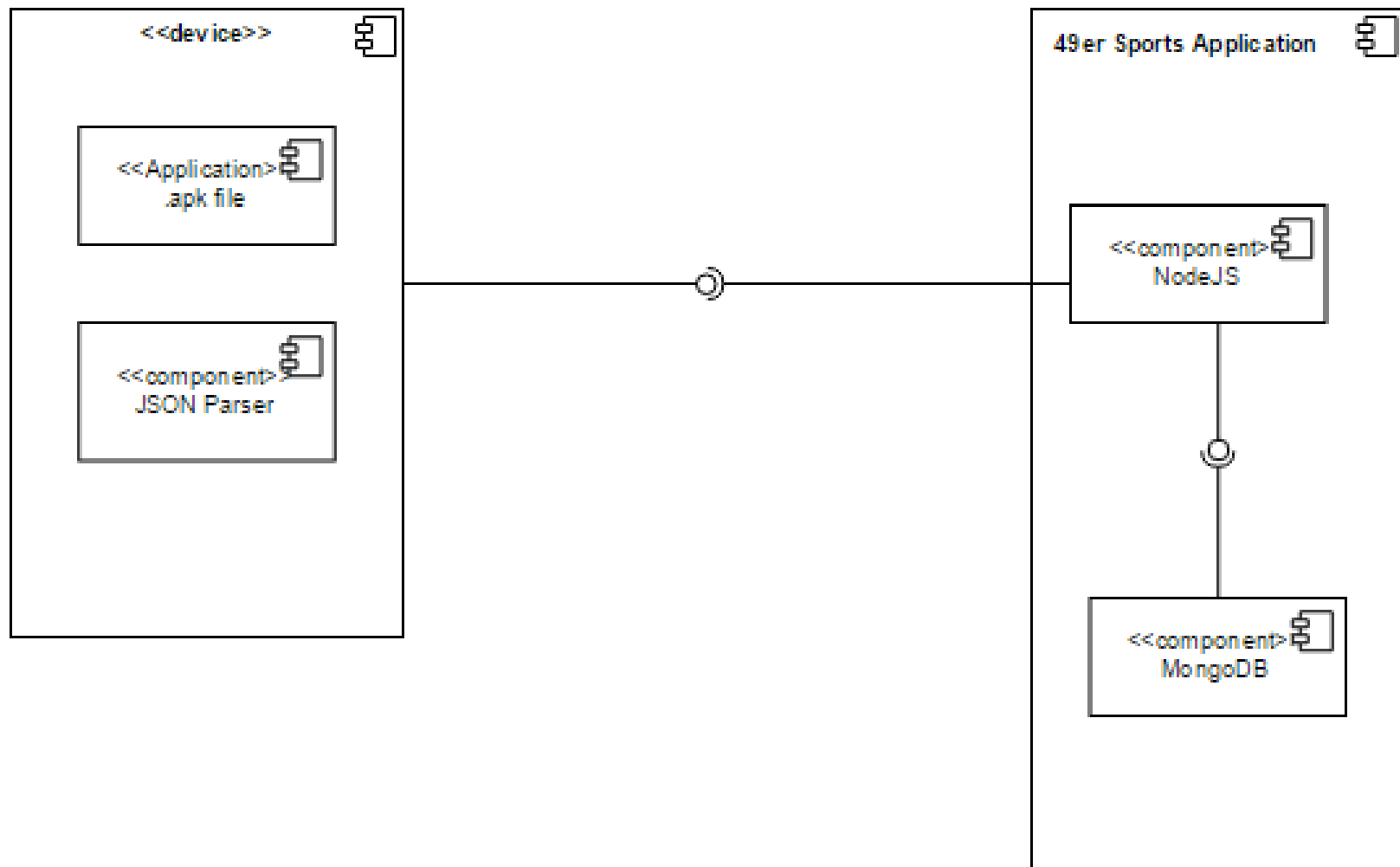


# CLASS DIAGRAM

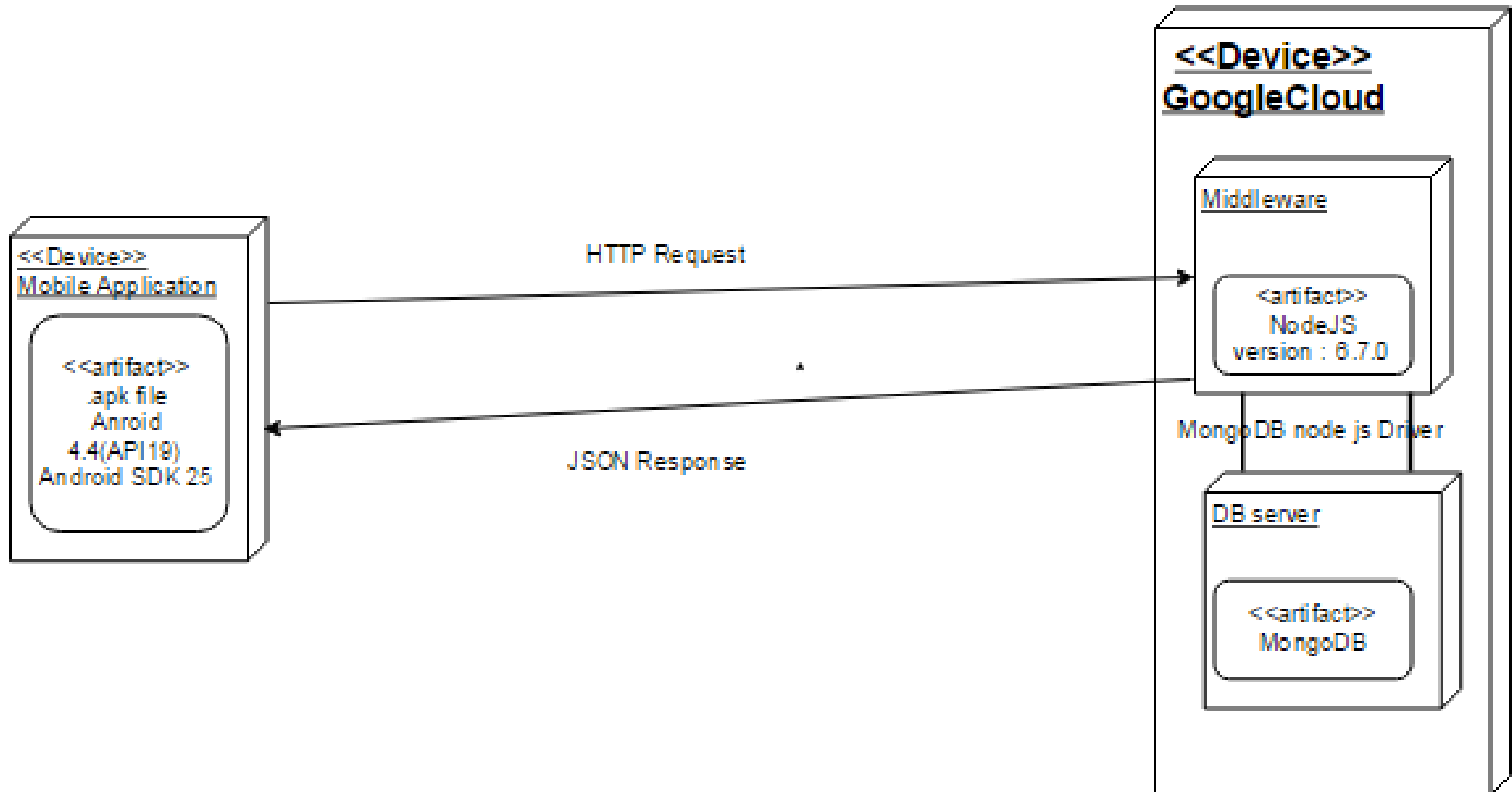




# COMPONENT DIAGRAM



# DEPLOYMENT DIAGRAM



# FUTURE SCOPE



- More events and games can be added to the application.
- Score of the live games can be displayed in the app.
- Can be integrated with the UNCC directory for all the students accessibility.



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# QUESTIONS

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# THANK YOU

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