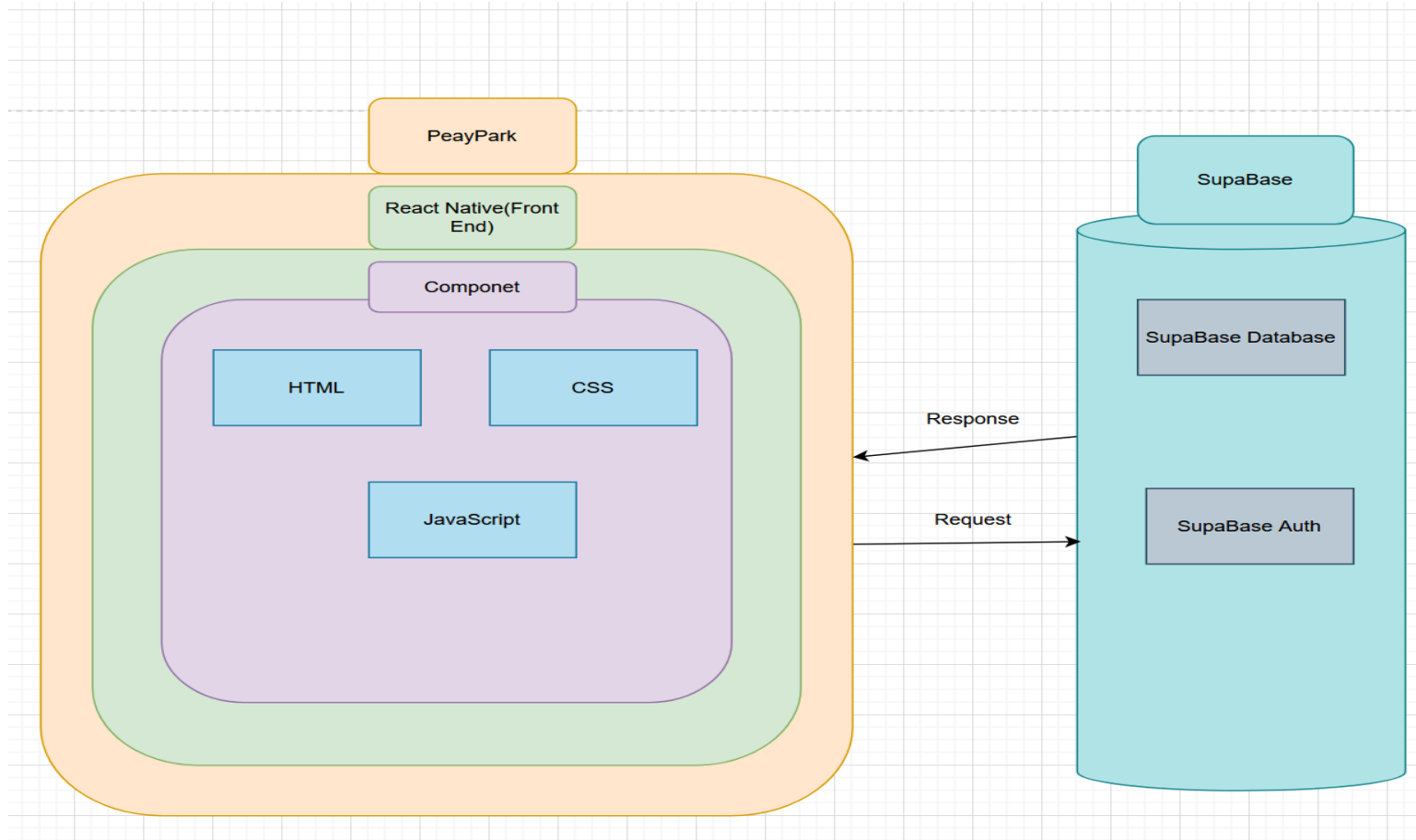# PROJECT DESIGN

PEAYPARK

Team Members: Jnaria Wheeler, Connor Dial, Mitchell Sollmann
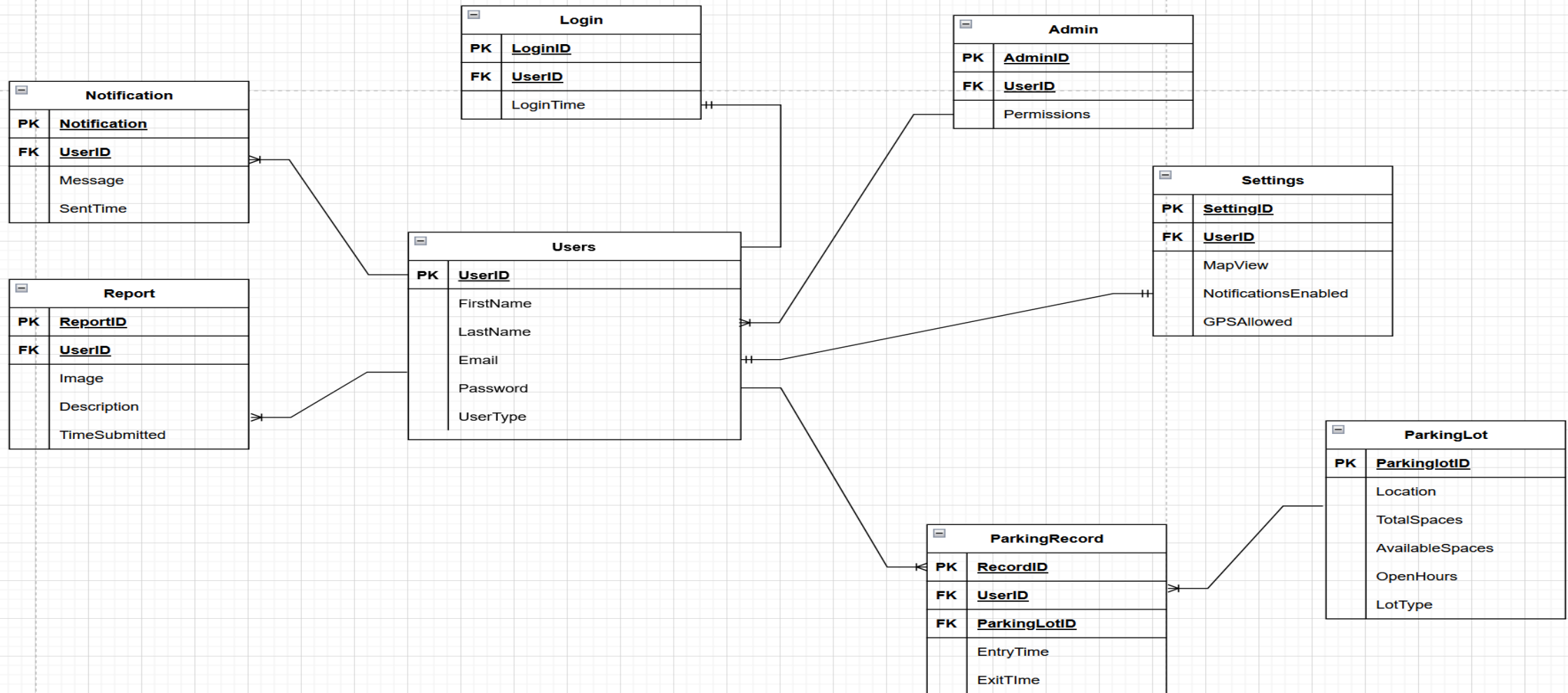
AGENDA

- Block Diagram

- Component Diagram

- User Interface Storyboard

- Message Documentation
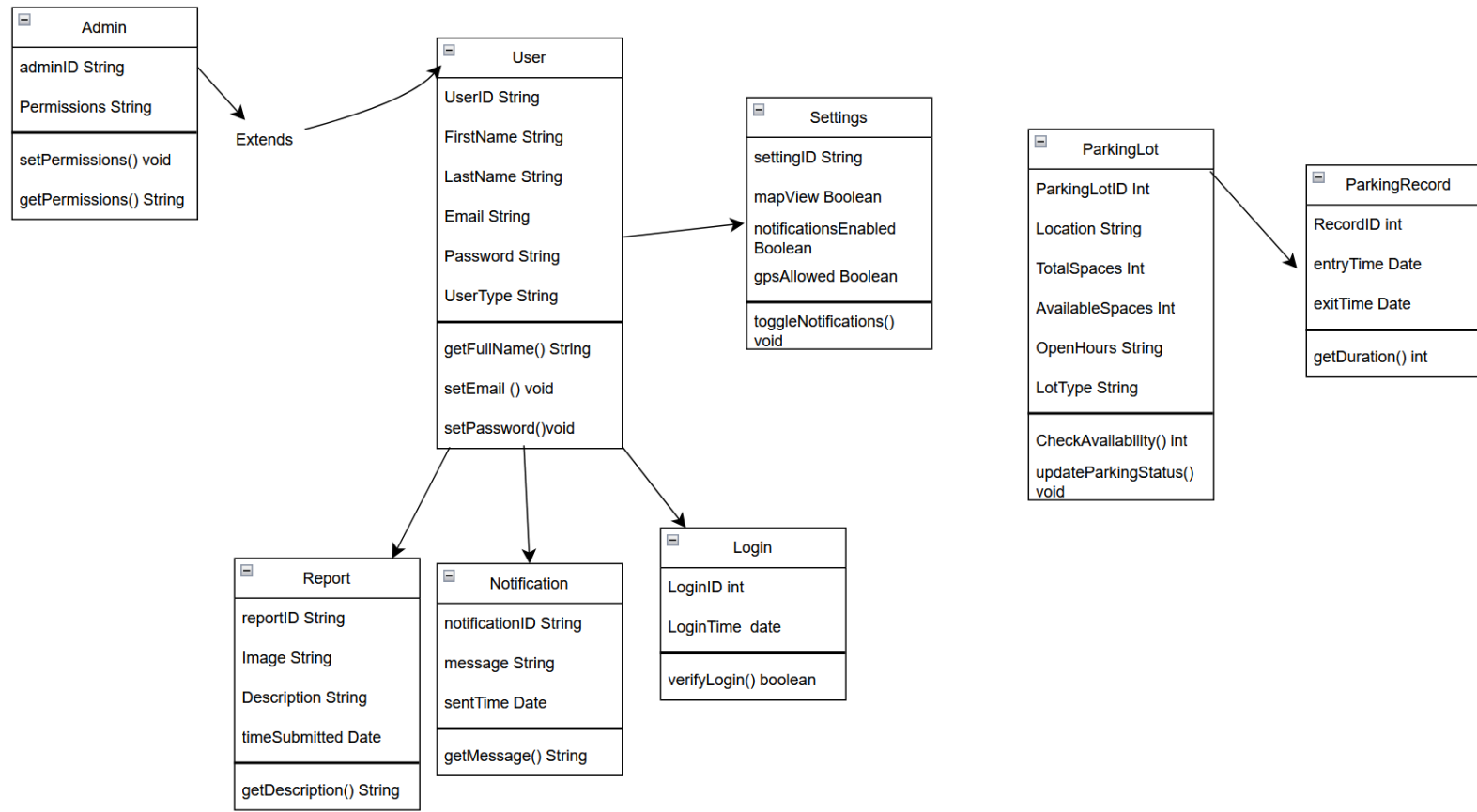
- Storage Documentation

Block Diagram

Storage Documentation

Login

PK	LoginID
FK	UserID
	LoginTime

Admin

PK	AdminID
FK	UserID
	Permissions

Notification

PK	Notification
FK	UserID
	Message
	SentTime

Settings

PK	SettingID
FK	UserID
	MapView
	NotificationsEnabled
	GPSAllowed

Users

PK	UserID
	FirstName
	LastName
	Email
	Password
	UserType

Report

PK	ReportID
FK	UserID
	Image
	Description
	TimeSubmitted

ParkingLot

PK	ParkinglotID
	Location
	TotalSpaces
	AvailableSpaces
	OpenHours
	LotType

ParkingRecord

PK	RecordID
FK	UserID
FK	ParkingLotID
	EntryTime
	ExitTIme

Component Diagram

PEAYPARK PROJECT DESIGN

User Interface Storyboard

- [Link to Figma](#)

Storage Documentation Continued

- 2 Main Tables for main functions (Account & Parking Lot)

- Table Management and Hosting by SupaBase.

- Access to tables given to designated administrative users. (e.g. Public Safety and/or Parking Enforcement)

- JavaScript application communicates with SupaBase via SQL queries.

- Example with real-world situation on next slide.

Example Hypothetical Situation

1. Student "Bobby" Enters Foy Parking Lot in his Prius because PeayPark says it has 37 spaces available.

2. Bobby confirms he is in the Foy Parking Lot in a parking space via PeayPark Mobile Application.

3. PeayPark application sends an SQL update statement to SupaBase database that updates the database and decrements the value "AvailableSpaces" for that parking lot. (Assuming the value of "AvailableSpaces" does not = 0.

4. Bobby closes the APSU parking app and immediately goes to class and has a great time.

Example Hypothetical Situation Continued

5. Bobby finishes class and comes back to the Foy Parking Lot.

6. Bobby goes back to where he parked his car and opens PeayPark.

7. Bobby then leaves the parking lot which is detected by app via GPS.

8. PeayPark sends SQL update statement to SupaBase database that updates the database and increments the value "AvailableSpaces" for that parking lot. (Assuming the value of "AvailableSpaces" does not = 120.

SupaBase Table 1 (Account Table)

SupaBase Account Table (Example)					
UserID (Email)	**Password**	**UserType**	**Admin?**	**First Name**	**Last Name**
bryan.james@my.apsu.edu	12345678	Student	Yes	Bryan	James
randomteacher@apsu.edu	MathIsLife	Staff	No	Blart	Paul
TheRealMikeTyson@Gmail.com	iEatEars	Guest	No	Mike	Tyson
stacysMom@Gmail.com	8675309	Guest	No	Stacys	Mom
nicholsonja@apsu.edu	PerlIsLife2025	Staff	No	Nicholson	John

SupaBase Table 2 (Parking Lot Table)

SupaBase Parking Lot Table (Example)					
ParkingLotID	**Location**	**AvailableSpaces**	**TotalSpaces**	**Open Hours**	**LotType**
Foy Lot	123 Foy Rd.	20	140	8AM-4:30PM	Student
Technology Building Lot	13 College St.	30	60	8AM-4:30PM	Student
Burt Elementary Lot (Student Side)	13 Elementary Rd.	3	40	8AM-4:30PM	Student
Burt Elementary Lot (Staff Side)	13 Elementary Rd.	0	40	8AM-4:30PM	Staff

Recap

- There are many requirements for this project.

- Mainly comprises of SQL and JavaScript.

- Exact requirements are subject to change as the development process moves forward as new needs may arise.

- Goal is to aid students, staff, and guests when parking on campus.

The End

- Questions?