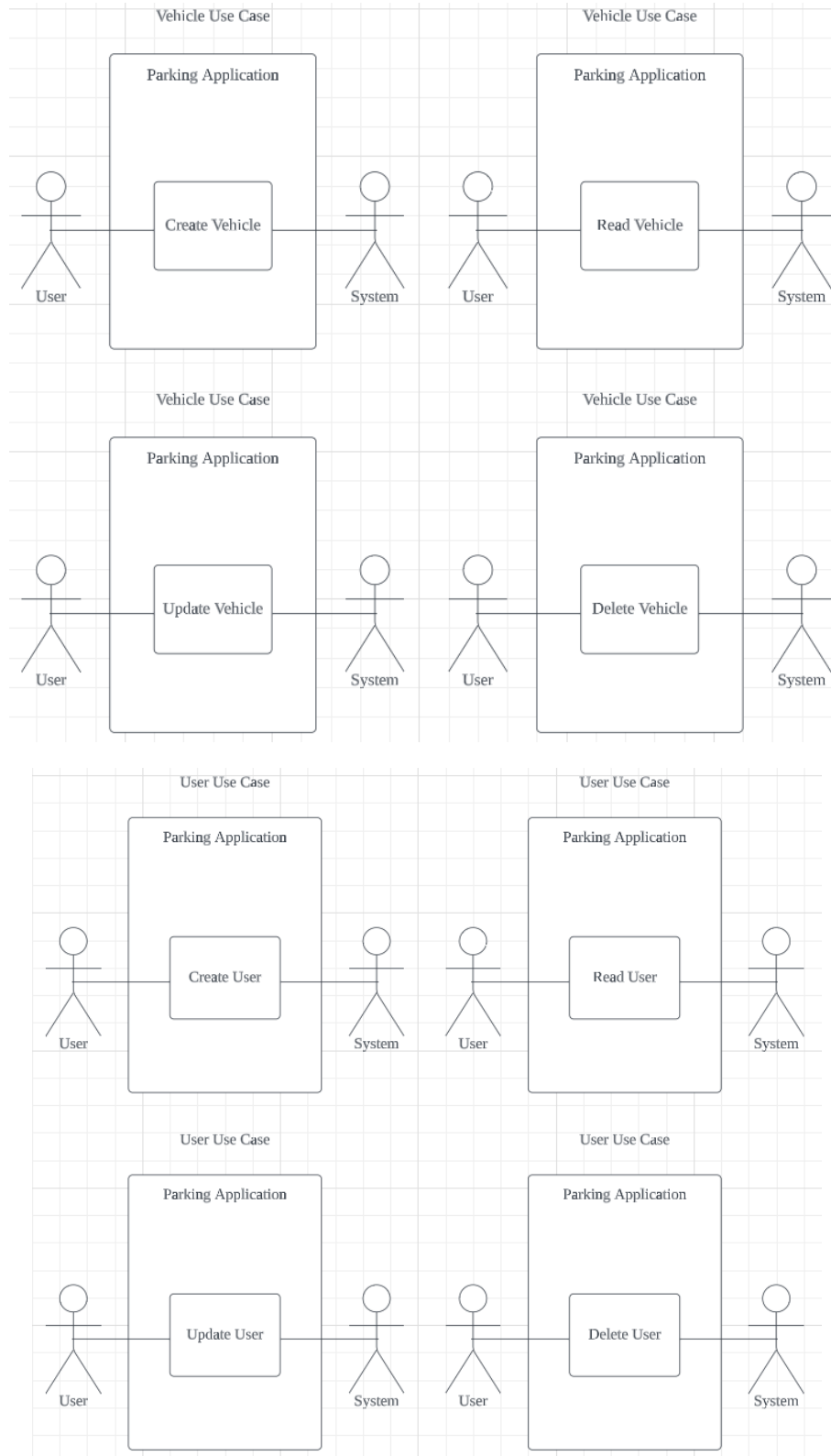
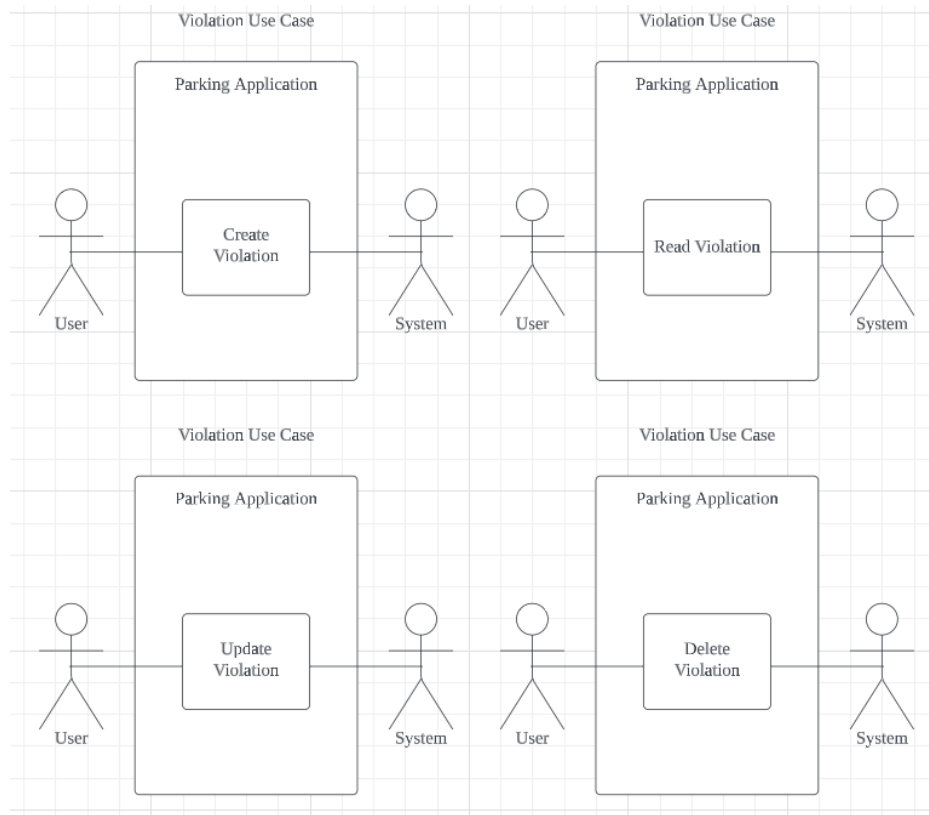
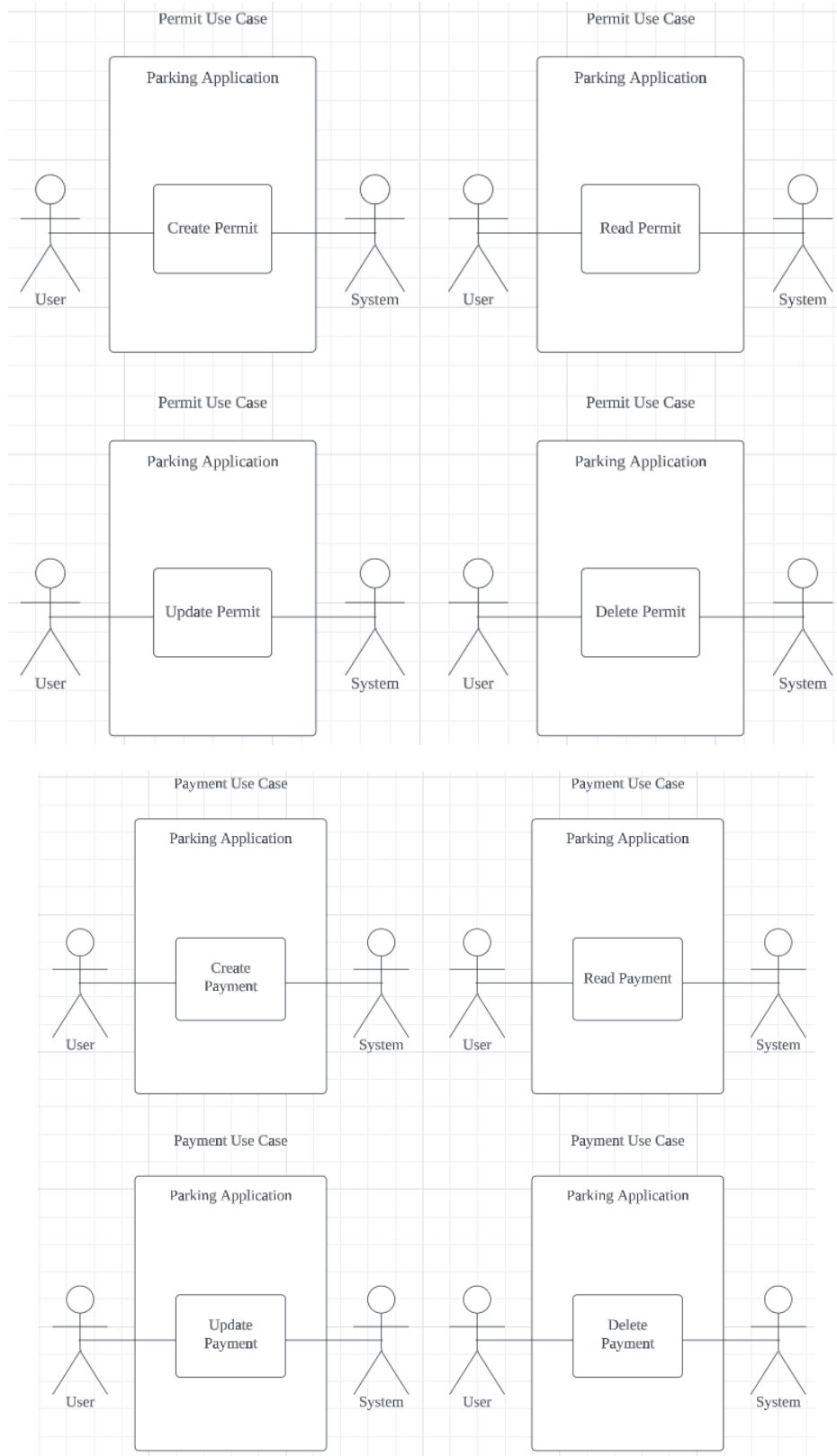


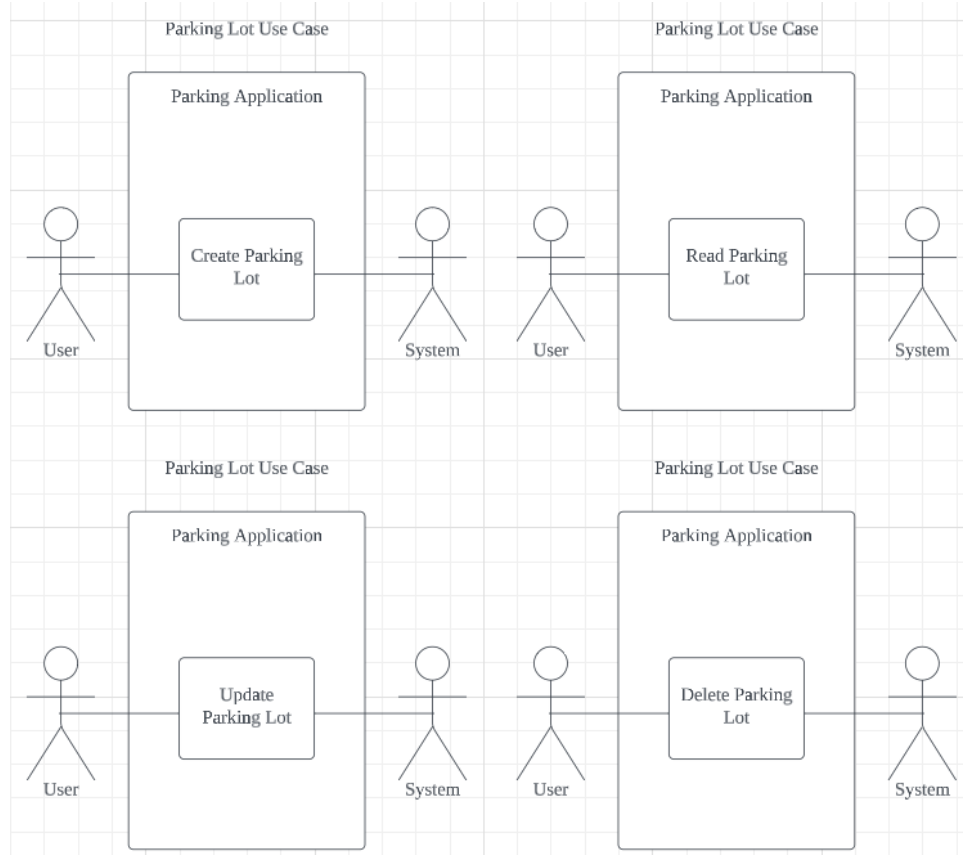
Luke LaVigne, Tommy Patterson, Simon Hong

## Use Case Document









## Use Case 1

Use Case	Create New User
Objective	Create a new user account for customer
Business Event	Create a new user account for customer
Primary Actor	User
Secondary Actor	Website
Pre-Condition	User must have access to the website and access to the “Add User” page
Post-Condition	User has created a new user account
Failure Outcomes	User doesn’t have all required info User is shown an error message

Flow of Events	Actor	System
1	User goes to the “Add User” page	System presents page and form to enter required info
2	User adds new user info and submits form	System validates info and creates new user account
3	User can now use the account to log in	

## Use Case 2

Use Case	Read Users Account
Objective	User can view their own details
Business Event	User can view their own details
Primary Actor	User
Secondary Actor	Website
Pre-Condition	User must sign into the website User has a valid account
Post-Condition	User views their account
Failure Outcomes	User cannot view their account info User is shown an error message

Flow of Events	Actor	System
1	User logs into the system with username and password	System directs the user to the “Home” page
2	User accesses the “Account”	System displays the “Account” page
3	User can read their account details	

## Use Case 3

Use Case	Update Users Account
Objective	User can update their user details
Business Event	User updates their details
Primary Actor	User
Secondary Actor	Website
Pre-Condition	User must be logged into the system User must be on the “Account” page
Post-Condition	User has updated their account info
Failure Outcomes	User is shown an error message User doesn’t have the necessary info

Flow of Events	Actor	System
1	User logs into the system	System presents “Homepage”
2	User accesses the “Account” page	System presents the “Account” page
3	User updates their account details	System updates their info in the system

## Use Case 4

Use Case	Delete User Account
Objective	User deletes their account
Business Event	User deletes their account
Primary Actor	User
Secondary Actor	Website
Pre-Condition	User be logged into and on the “Account” page
Post-Condition	User has deleted their account
Failure Outcomes	User is shown an error message

Flow of Events	Actor	System
1	User logs into the “Home” page	System presents “Home” page
2	User accesses the “Account” page	System presents the “Account” page
3	User submits the request to delete their account	System removes the user’s account from the system



## Use Case 5

Use Case	Create New Vehicle
Objective	User creates a new vehicle account
Business Event	User creates a new vehicle account
Primary Actor	User
Secondary Actor	Website
Pre-Condition	User be logged into and on the “Vehicle” page
Post-Condition	User has created a new vehicle on their account
Failure Outcomes	User is shown an error message User does not have the vehicles details

Flow of Events	Actor	System
1	User logs into the “Home” page	System present “Home” page
2	User accesses the “Vehicle” page	System presents the “Vehicle” page
3	User selects the option to “Add New Vehicle”	System presents the “Add New Vehicle” page
4	User enters vehicle info and submits the form	System validates the info and creates a new vehicle account

## Use Case 6

Use Case	Read Vehicle Details
Objective	User can read their vehicle details
Business Event	User read their vehicle details
Primary Actor	User
Secondary Actor	Website
Pre-Condition	User be logged in and on the “Vehicle” page
Post-Condition	User has read their Vehicle info
Failure Outcomes	User is shown an error message

Flow of Events	Actor	System
1	User logs into the “Home” page	System presents home page
2	User accesses the “Vehicle” page	System presents the “Vehicle” page
3	User can read their Vehicle details	

## Use Case 7

Use Case	Update Vehicle Details
Objective	User updates their vehicle details
Business Event	User updates their vehicle details
Primary Actor	User
Secondary Actor	Website
Pre-Condition	User must be logged into the page and in the “Vehicles” page
Post-Condition	User has updated their vehicle’s details
Failure Outcomes	User is shown an error message

Flow of Events	Actor	System
1	User logs into the “Home” page	System presents “Home” page
2	User accesses the “Vehicles” page	System presents the “Vehicles” page
3	User selects the option to “Update” the vehicle details	System presents the “Update Vehicle” page
4	User submits the request to update the vehicle’s details	System updates the vehicle’s details

## Use Case 8

Use Case	Delete Vehicle Account
Objective	User deletes their vehicle account
Business Event	User deletes their vehicle account
Primary Actor	User
Secondary Actor	Website
Pre-Condition	User be logged in and on the “Vehicles” page
Post-Condition	User has deleted their vehicle account
Failure Outcomes	User is shown an error message

Flow of Events	Actor	System
1	User logs into the “Home” page	System presents “Home” page
2	User access the “Vehicle” page	System presents the “Vehicle” page
3	User submits the request to delete their vehicle account	System deletes the vehicle account

## Use Case 9

Use Case	Create Violation
Objective	Admin creates a violation
Business Event	Admin creates a new violation
Primary Actor	Admin
Secondary Actor	Website
Pre-Condition	Admin must be logged in and on the “Violation” page
Post-Condition	Admin has created a new violation
Failure Outcomes	Admin is shown an error message Admin is missing info for violation

Flow of Events	Actor	System
1	Admin logs into the “Home” page	System presents “Home” page
2	Admin access the “Violation” page	System presents the “Violation” page
3	Admin fills out all violation details	
4	Admin submits “Create Violation” request	System adds the new violation to the database

## Use Case 10

Use Case	Read Violation
Objective	User reads their violation
Business Event	User reads their violation
Primary Actor	User
Secondary Actor	Website
Pre-Condition	User must be logged in and on the “Violation” page
Post-Condition	User has read their violation details
Failure Outcomes	User is shown an error message User doesn’t have a violation

Flow of Events	Actor	System
1	User logs into the “Home” page	System presents “Home” page
2	User access the “Violation” page	System presents the “Violation” page
3	User reads their violation details	

## Use Case 11

Use Case	Update Violation
Objective	Admin updates a violation
Business Event	Admin updates an existing violation
Primary Actor	Admin
Secondary Actor	Website
Pre-Condition	Admin must be logged in and on the “Violation” page
Post-Condition	Admin has updated a violation
Failure Outcomes	Admin is shown an error message

Flow of Events	Actor	System
1	Admin logs into the “Home” page	System presents “Home” page
2	Admin access the “Violation” page	System presents the “Violation” page
3	Admin updates the violation details	
4	Admin submits “Update Violation” request	System updates the violation to the database

## Use Case 12

Use Case	Delete Violation
Objective	Admin deletes a violation
Business Event	Admin deletes a violation
Primary Actor	Admin
Secondary Actor	Website
Pre-Condition	Admin must be logged in and on the “Violation” page
Post-Condition	Admin has deleted a violation
Failure Outcomes	Admin is shown an error message Admin is missing info to find correct violation

Flow of Events	Actor	System
1	Admin logs into the “Home” page	System presents “Home” page
2	Admin access the “Violation” page	System presents the “Violation” page
3	Admin submits “Delete Violation” request	System deletes the violation from the database



## Use Case 13

Use Case	Create Permit
Objective	User creates a new permit
Business Event	User creates a new permit
Primary Actor	User
Secondary Actor	Website
Pre-Condition	User must be logged in and on the “Permit” page
Post-Condition	User has created a permit
Failure Outcomes	User is shown an error message User is missing info required for a permit

Flow of Events	Actor	System
1	User logs into the “Home” page	System presents “Home” page
2	User accesses the “Permit” page	System presents the “Permit” page
3	User fills out all required fields	
4	User submits request to “Create Permit”	System adds the permit to the database

## Use Case 14

Use Case	Read Permit
Objective	User reads their permit
Business Event	User reads their permit
Primary Actor	User
Secondary Actor	Website
Pre-Condition	User must be logged in and on the “Permit” page
Post-Condition	User has read their permit details
Failure Outcomes	User is shown an error message

Flow of Events	Actor	System
1	User logs into the “Home” page	System presents “Home” page
2	User accesses the “Permit” page	System presents the “Permit” page
3	User can read their permit details	

## Use Case 15

Use Case	Update Permit
Objective	User updates their permit
Business Event	User updates their permit
Primary Actor	User
Secondary Actor	Website
Pre-Condition	User must be logged in and on the “Permit” page
Post-Condition	User has updated their permit
Failure Outcomes	User is shown an error message User is missing info required to update the permit

Flow of Events	Actor	System
1	User logs into the “Home” page	System presents “Home” page
2	User accesses the “Permit” page	System presents the “Permit” page
3	User updates the fields	System updates the database

## Use Case 16

Use Case	Delete Permit
Objective	User deletes their permit
Business Event	User deletes their permit
Primary Actor	User
Secondary Actor	Website
Pre-Condition	User must be logged in and on the “Permit” page
Post-Condition	User has deleted their permit
Failure Outcomes	User is shown an error message

Flow of Events	Actor	System
1	User logs into the “Home” page	System presents “Home” page
2	User accesses the “Permit” page	System presents the “Permit” page
3	User submits the “Delete Permit” request	System deletes the permit from database

## Use Case 17

Use Case	Create Payment
Objective	User creates a payment with their info
Business Event	User pays for permit or violation
Primary Actor	User
Secondary Actor	Website
Pre-Condition	User must be logged in and on the “Payment” page
Post-Condition	User has created a payment
Failure Outcomes	User is shown an error message User is missing required payment details

Flow of Events	Actor	System
1	User logs into the “Home” page	System presents “Home” page
2	User accesses the “Payment” page	System presents the “Payment” page
3	User fills out required fields	
4	User submits request to create payment	System adds payment to the database

## Use Case 18

Use Case	Read Payment
Objective	User can read their payment info
Business Event	User reads their payment info
Primary Actor	User
Secondary Actor	Website
Pre-Condition	User must be logged in and on the “Payment” page
Post-Condition	User has read their payment info
Failure Outcomes	User is shown an error message User does not have a payment

Flow of Events	Actor	System
1	User logs into the “Home” page	System presents “Home” page
2	User accesses the “Payment” page	System presents the “Payment” page
3	User can read their payment info	

## Use Case 19

Use Case	Update Payment
Objective	User updates their payment info
Business Event	User updates their payment
Primary Actor	User
Secondary Actor	Website
Pre-Condition	User must be logged in and on the “Payment” page
Post-Condition	User has updated their payment details
Failure Outcomes	User is shown an error message

Flow of Events	Actor	System
1	User logs into the “Home” page	System presents “Home” page
2	User accesses the “Payment” page	System presents the “Payment” page
3	User updates the intended fields	
4	User submits request to update payment	System updates the payment info in the database

## Use Case 20

Use Case	Delete Payment
Objective	User deletes their payment info
Business Event	User deletes their payment details
Primary Actor	User
Secondary Actor	Website
Pre-Condition	User must be logged in and on the “Payment” page
Post-Condition	User has deleted payment info
Failure Outcomes	User is shown an error message

Flow of Events	Actor	System
1	User logs into the “Home” page	System presents “Home” page
2	User accesses the “Payment” page	System presents the “Payment” page
3	User submits request to delete payment	System deletes the payment from the database



## Use Case 21

Use Case	Create Parking Lot
Objective	Admin creates a parking lot with required info
Business Event	Admin creates a new parking lot
Primary Actor	Admin
Secondary Actor	Website
Pre-Condition	Admin must be logged in and on the “Parking Lot” page
Post-Condition	Admin has created a new parking lot
Failure Outcomes	Admin is shown an error message Admin is missing required details

Flow of Events	Actor	System
1	Admin logs into the “Home” page	System presents “Home” page
2	Admin accesses the “Parking Lot” page	System presents the “Parking Lot” page
3	Admin fills out required fields	
4	Admin submits request to create parking lot	System adds parking lot to the database

## Use Case 22

Use Case	Read Parking Lot
Objective	Admin reads parking lot info
Business Event	Admin reads the info about the parking lot
Primary Actor	Admin
Secondary Actor	Website
Pre-Condition	Admin must be logged in and on the “Parking Lot” page
Post-Condition	Admin has read the parking lot info
Failure Outcomes	Admin is shown an error message

Flow of Events	Actor	System
1	Admin logs into the “Home” page	System presents “Home” page
2	Admin accesses the “Parking Lot” page	System presents the “Parking Lot” page
3	Admin reads the parking lot info	

## Use Case 23

Use Case	Update Parking Lot
Objective	Admin updates a parking lots info
Business Event	Admin updates parking lot details
Primary Actor	Admin
Secondary Actor	Website
Pre-Condition	Admin must be logged in and on the “Parking Lot” page
Post-Condition	Admin has updated a parking lot
Failure Outcomes	Admin is shown an error message Admin is missing required details

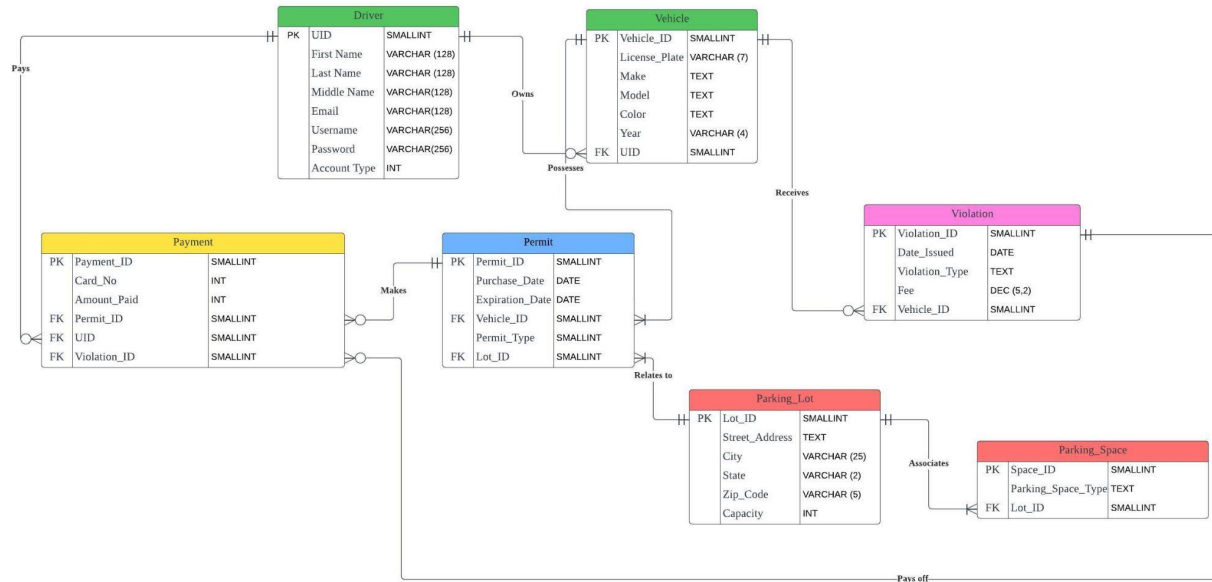
Flow of Events	Actor	System
1	Admin logs into the “Home” page	System presents “Home” page
2	Admin accesses the “Parking Lot” page	System presents the “Parking Lot” page
3	Admin updates the desired fields	
4	Admin submits request to update parking lot details	System updates the parking lot in the database

## Use Case 24

Use Case	Delete Parking Lot
Objective	Admin deletes a parking lot
Business Event	Admin deletes a parking lot
Primary Actor	Admin
Secondary Actor	Website
Pre-Condition	Admin must be logged in and on the “Parking Lot” page
Post-Condition	Admin has deleted a parking lot
Failure Outcomes	Admin is shown an error message

Flow of Events	Actor	System
1	Admin logs into the “Home” page	System presents “Home” page
2	Admin accesses the “Parking Lot” page	System presents the “Parking Lot” page
3	Admin submits request to delete parking lot	System deletes parking lot from the database

### U of U parking System Group4



### Business Objective

As our team was building this webpage, we helped to solve several issues with the current webpage. First, Simon has ran into many issues regarding the current violation system. With the current system, you must input the ticket ID number or plate to find your violation. With our new system, violations are tied to your UID and Vehicle ID, allowing for easy access to all violations linked to an account. Another issue we solved through our webpage is the issue of navigation and finding parking lots that apply to each permit. Our webpage has all parking lots of the university listed on the permits page along with their corresponding permit type. By utilizing this page, all users can easily see where they can park with their corresponding permits.

### Ethics and critical thinking

Consider the ethical implications of collecting and storing user data. Implementing appropriate security measures to protect sensitive information, such as license plate numbers or personal details, from unauthorized access is crucial when considering ethics. Critical thinking about data retention policies, data encryption, and user consent mechanisms are also essential ideas when considering critical thinking. Presenting information about parking violation permits, regulations, and consequences to users ethically is one of the many ethical considerations that we need to make and think about as we begin to develop the front end of our website. For example,

thinking critically about how to deliver information clearly and honestly to avoid misunderstandings or false claims is one of the major issues we must consider as we think about ethics. Providing accurate and up-to-date information to prevent confusion or legal issues also comes into play as we consider ethics.

Applying critical thinking ensures that front-end pages are comprehensive and suitable for diverse users. When designing accessible pages, we must consider various devices, screen sizes, and internet speeds. We have to apply critical thinking to address any potential biases or discriminatory elements in the design. Secondly, to collect user feedback and incorporate it into the design process, critical thinking plays a massive role. We must consider user suggestions and concerns, continuously improving the user experience and addressing any ethical issues that arise.