Deliverable #3

(Systems Development Methodologies)

New System Design

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3				Hae Eun Park	991538217

*Group Name: Group 6

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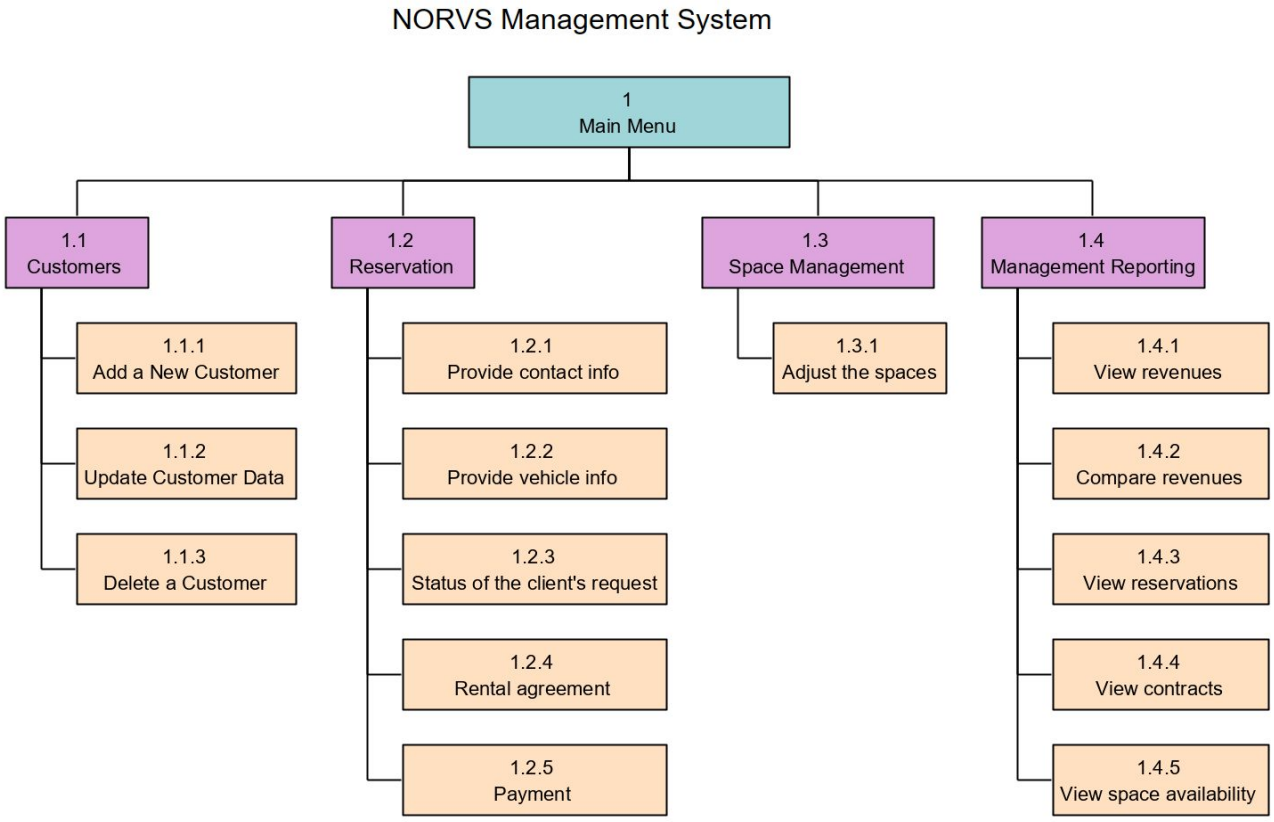
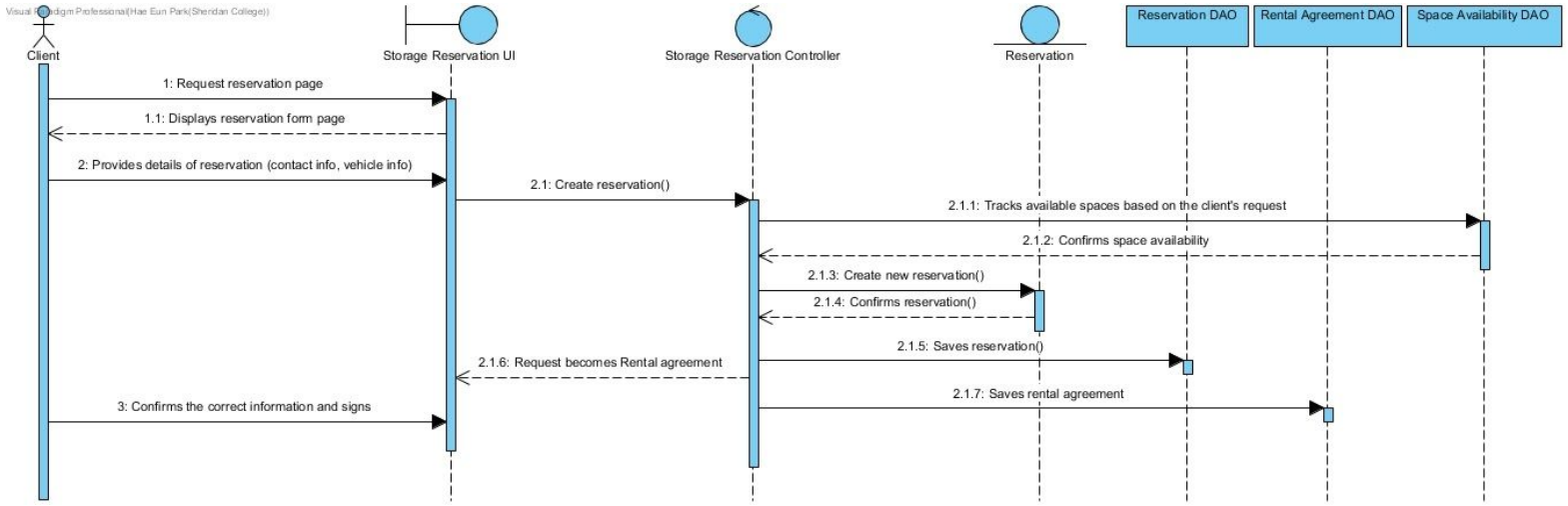
UI Navigation Structure



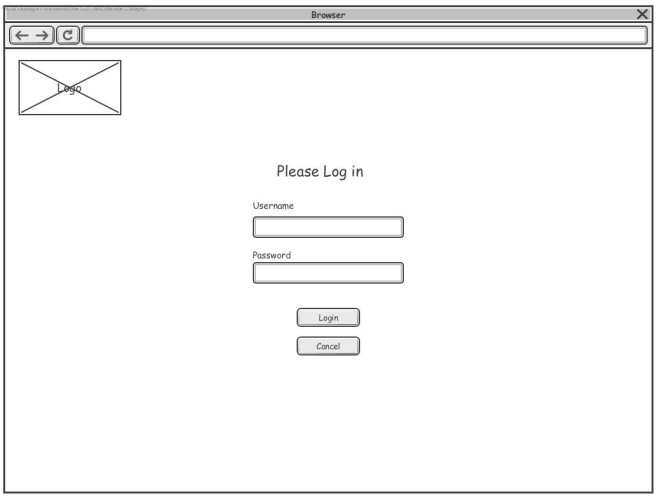
Design Model

- **Use Case #1 (Reserve storage)**

Sequence Diagram



Wireframes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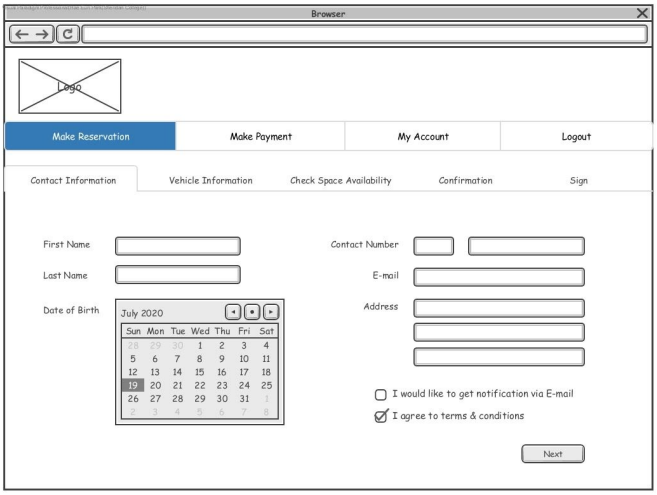
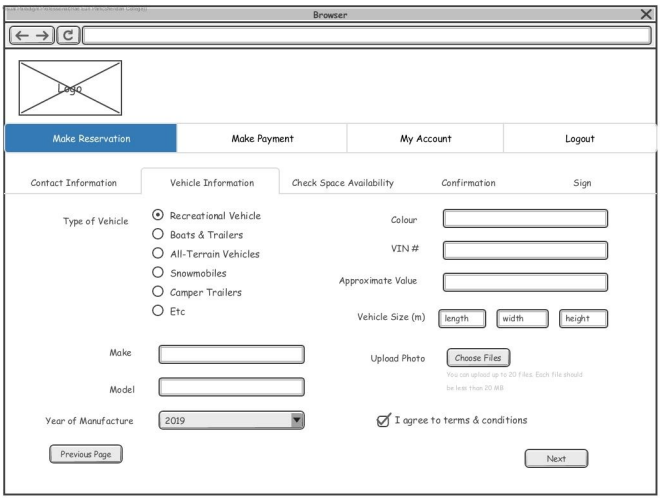
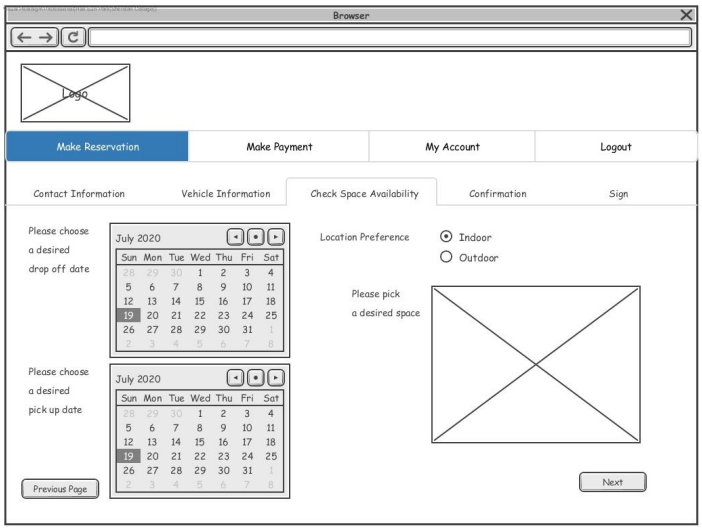
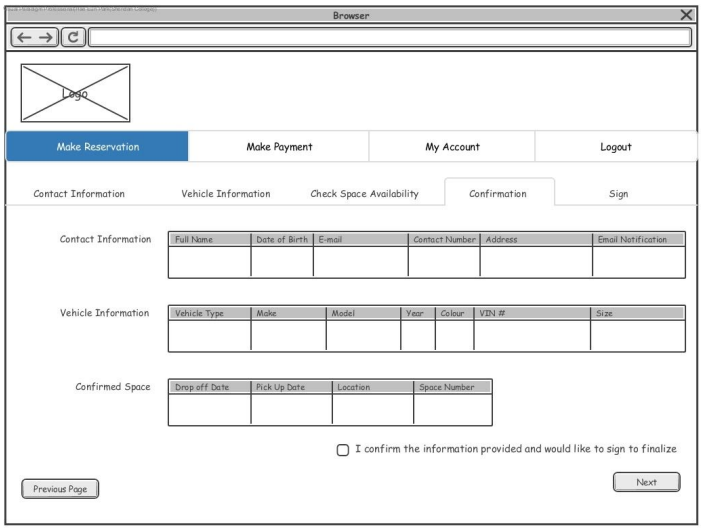
Username
Password
Login
Cancel


Browser
Logo
Make Reservation
Make Payment
My Account
Logout
Contact Information
Vehicle Information
Check Space Availability
Confirmation
Sign
First Name
Last Name
Date of Birth
July 2020
Sun Mon Tue Wed Thu Fri Sat
Contact Number
E-mail
Address
I would like to get notification via E-mail
I agree to terms & conditions
Next


Browser
Logo
Make Reservation
Make Payment
My Account
Logout
Contact Information
Vehicle Information
Check Space Availability
Confirmation
Sign
Type of Vehicle
Recreational Vehicle
Boats & Trailers
All-Terrain Vehicles
Snowmobiles
Camper Trailers
Etc
Colour
VIN #
Approximate Value
Vehicle Size (m)
length
width
height
Make
Model
Year of Manufacture
2019
Upload Photo
Choose Files
I agree to terms & conditions
Previous Page
Next


Browser
Logo
Make Reservation
Make Payment
My Account
Logout
Contact Information
Vehicle Information
Check Space Availability
Confirmation
Sign
Please choose a desired drop off date
July 2020
Sun Mon Tue Wed Thu Fri Sat
Please choose a desired pick up date
July 2020
Location Preference
Indoor
Outdoor
Please pick a desired space
Previous Page
Next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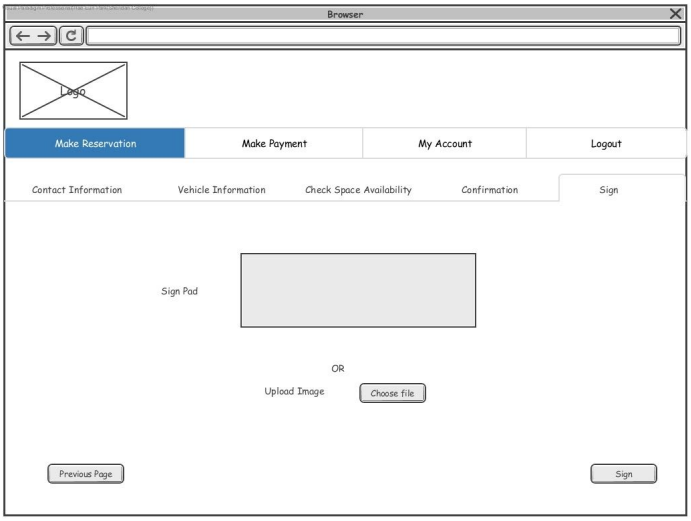
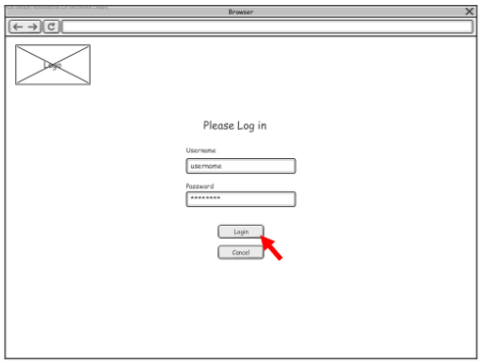
Logo
Make Reservation
Make Payment
My Account
Logout
Contact Information
Vehicle Information
Check Space Availability
Confirmation
Sign
Contact Information
Full Name
Date of Birth
E-mail
Contact Number
Address
Email Notification
Vehicle Information
Vehicle Type
Make
Model
Year
Colour
VIN #
Size
Confirmed Space
Drop off Date
Pick Up Date
Location
Space Number
I confirm the information provided and would like to sign to finalize
Previous Page
Next


Browser
Logo
Make Reservation
Make Payment
My Account
Logout
Contact Information
Vehicle Information
Check Space Availability
Confirmation
Sign
Sign Pad
OR
Upload Image
Choose file
Previous Page
Sign

Storyboard

1



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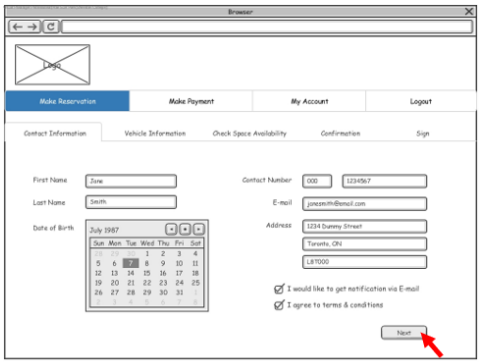

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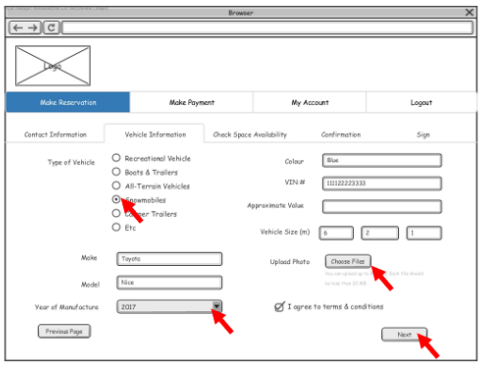

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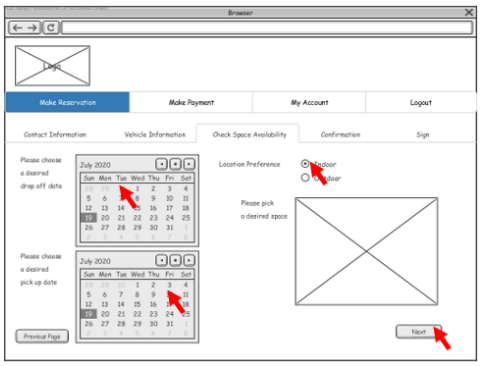

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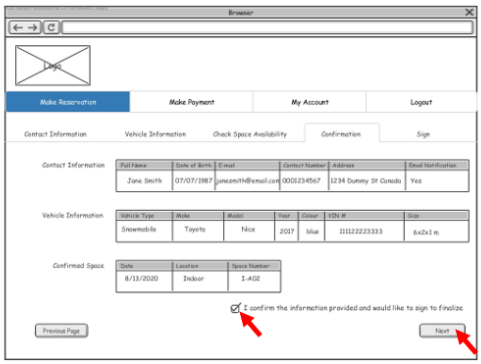

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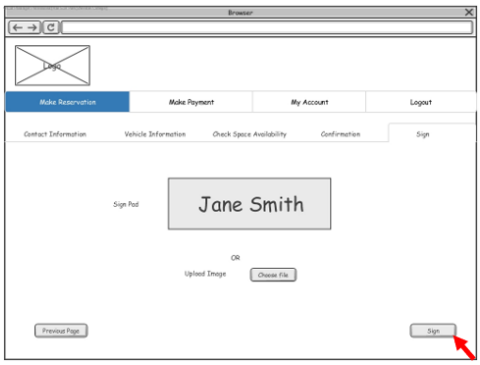
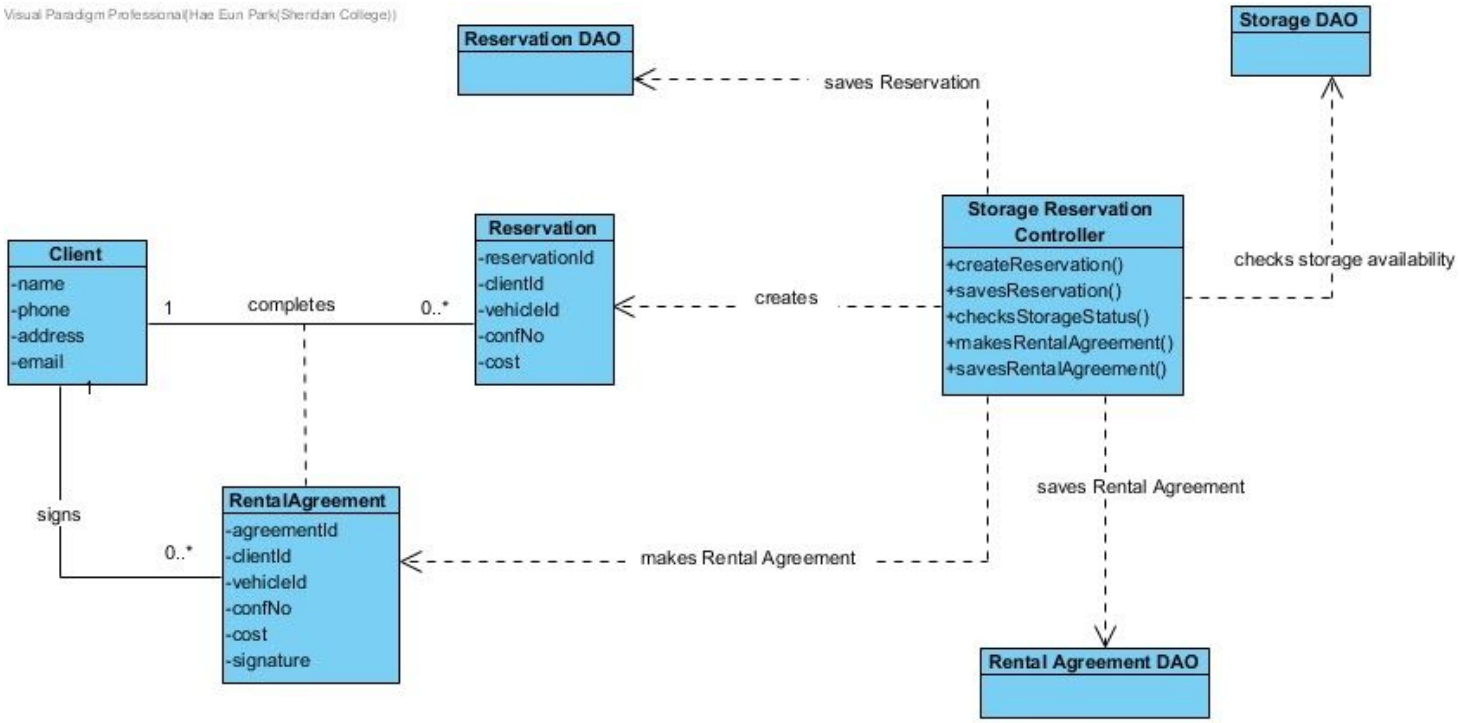
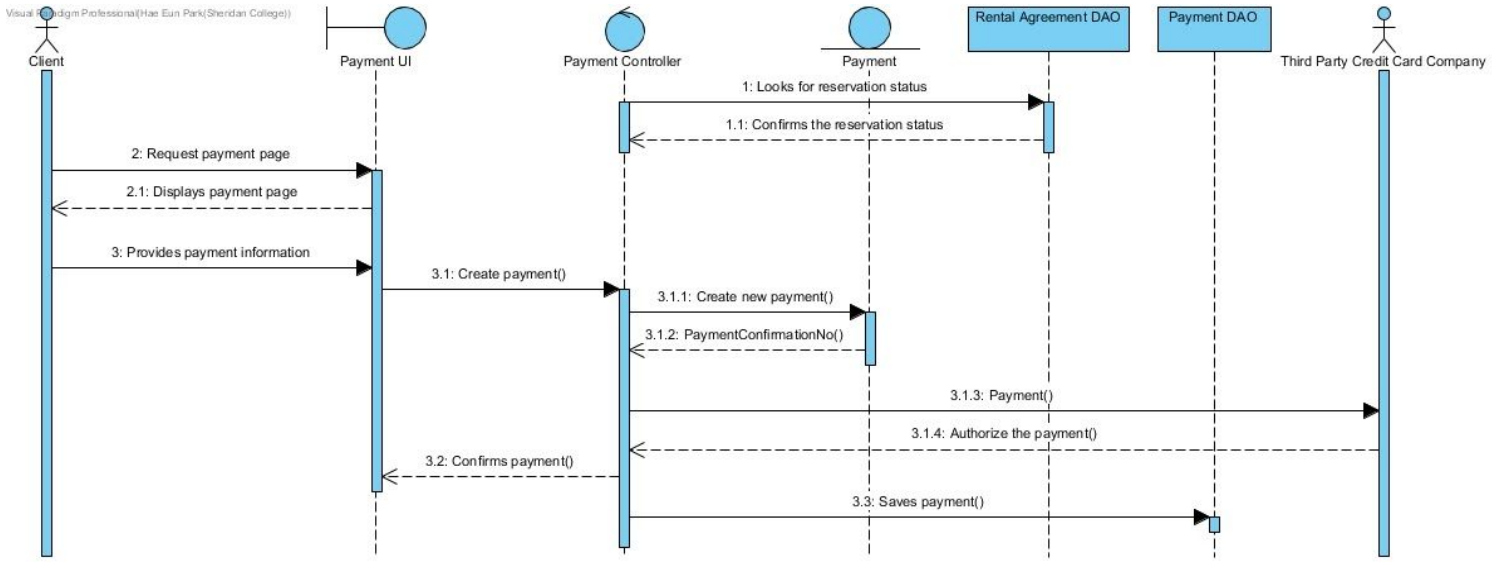


Design Class Diagram



- **Use Case #2 (Make payment)**

Sequence Diagram



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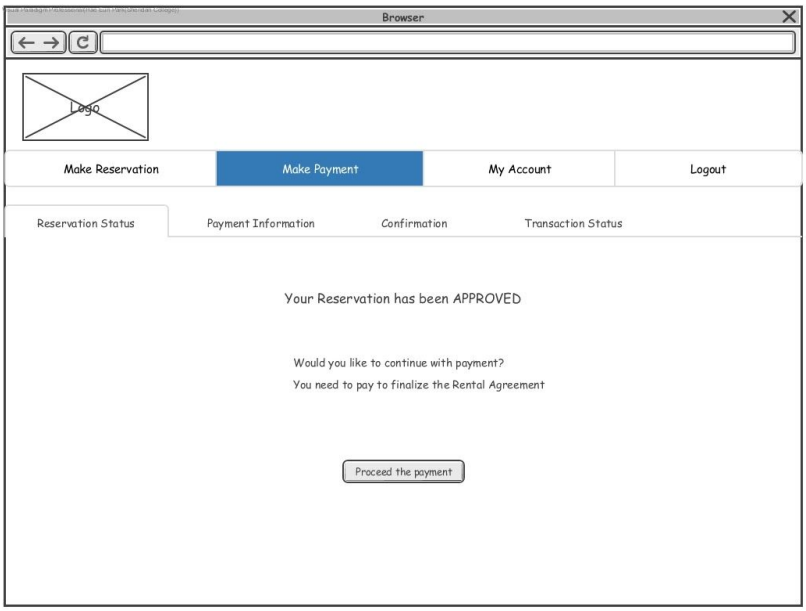
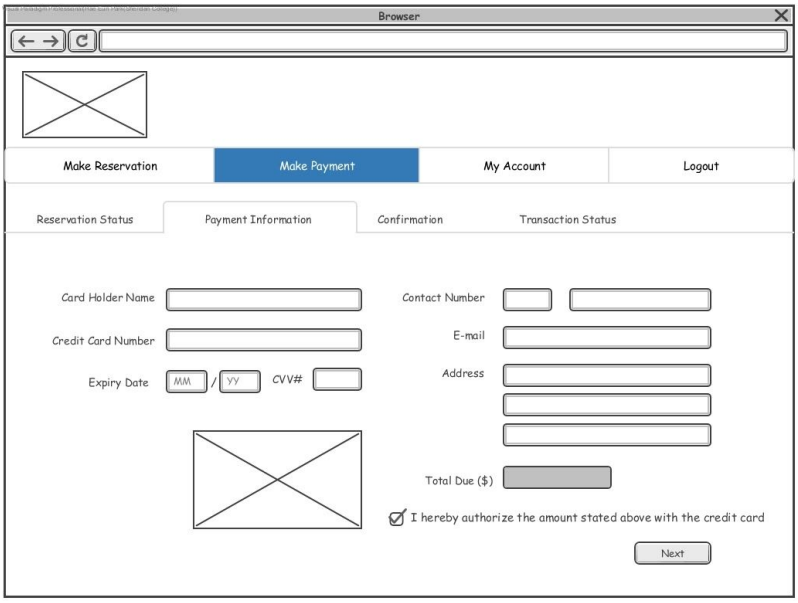
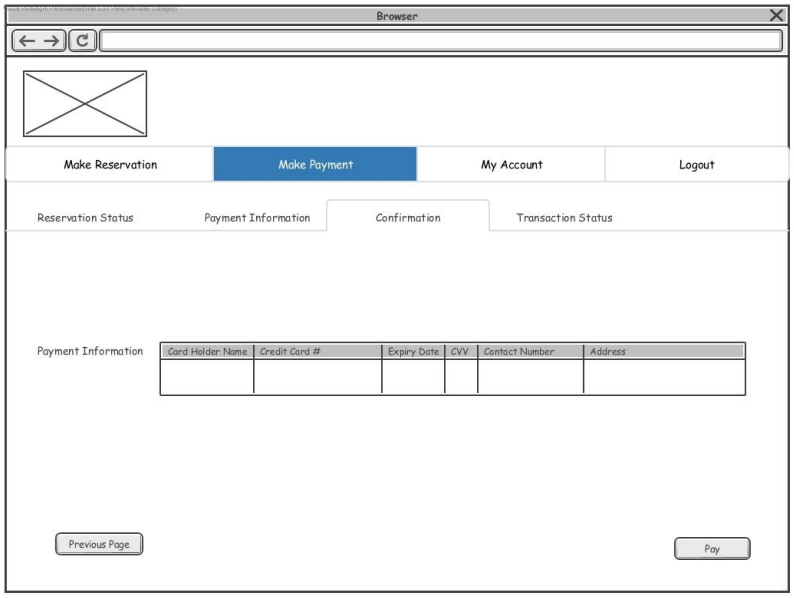
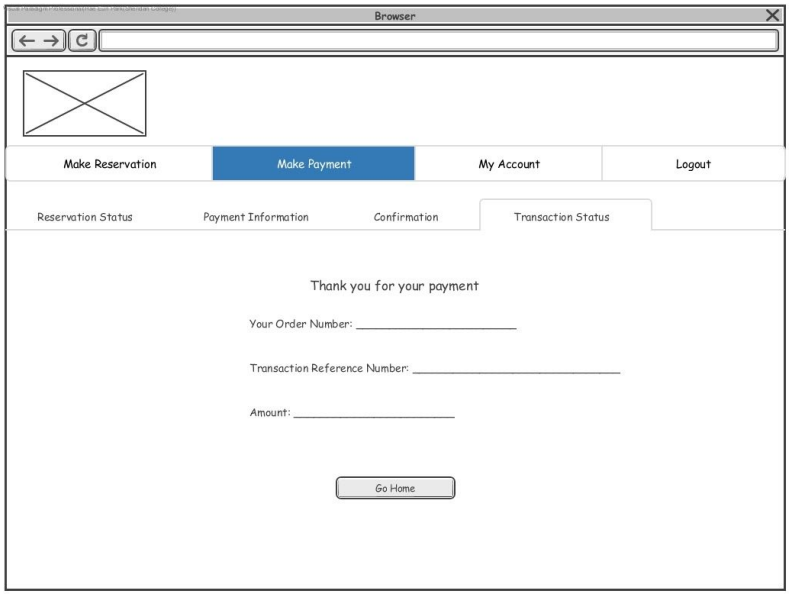
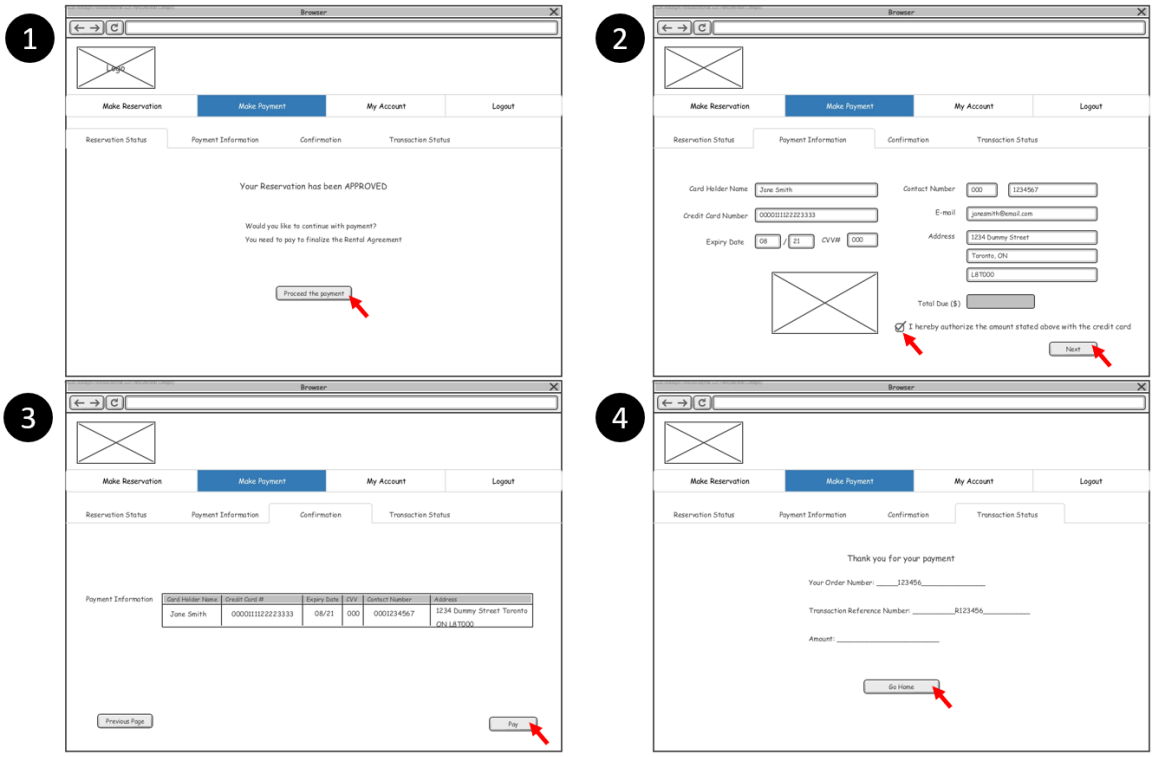

Browser
Logo
Make Reservation
Make Payment
My Account
Logout
Reservation Status
Payment Information
Confirmation
Transaction Status
Your Reservation has been APPROVED
Would you like to continue with payment?
You need to pay to finalize the Rental Agreement
Proceed the payment


Browser
Make Reservation
Make Payment
My Account
Logout
Reservation Status
Payment Information
Confirmation
Transaction Status
Card Holder Name
Credit Card Number
Expiry Date
MM
YY
CVV#
Contact Number
E-mail
Address
Total Due ($)
I hereby authorize the amount stated above with the credit card
Next

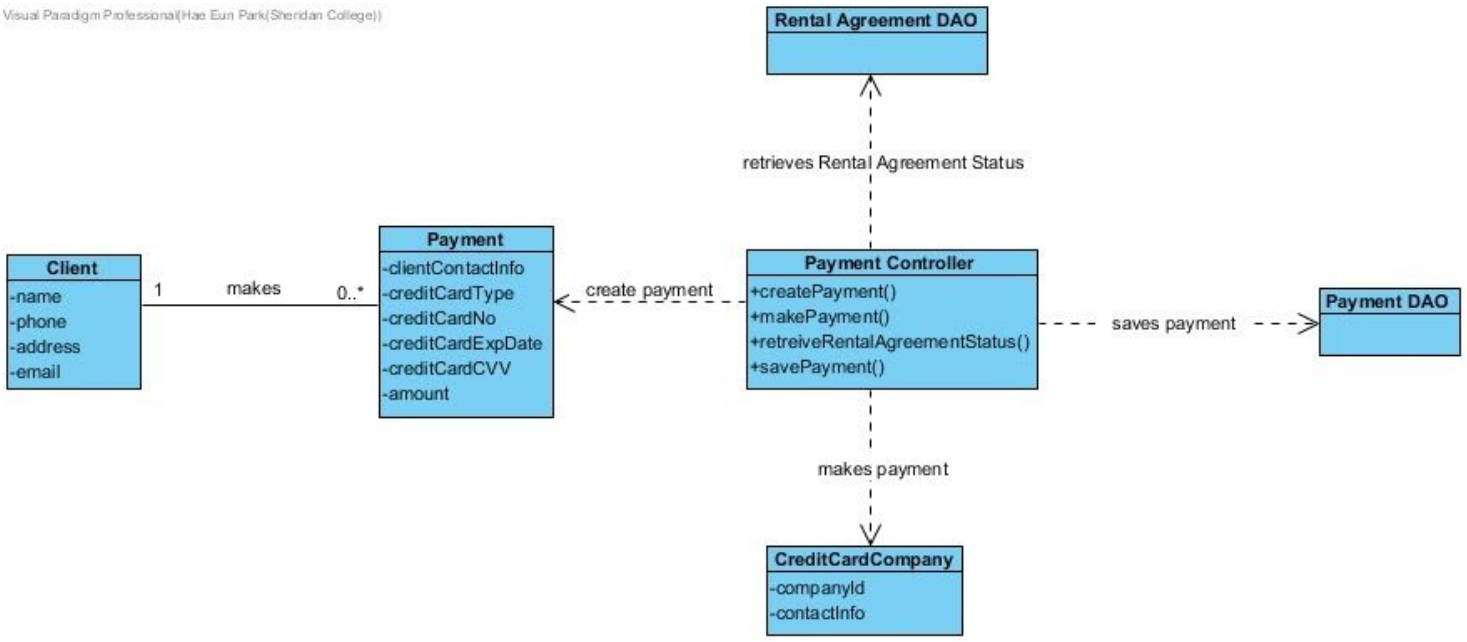

Browser
Make Reservation
Make Payment
My Account
Logout
Reservation Status
Payment Information
Confirmation
Transaction Status
Payment Information
Card Holder Name
Credit Card #
Expiry Date
CVV
Contact Number
Address
Previous Page
Pay


Browser
Make Reservation
Make Payment
My Account
Logout
Reservation Status
Payment Information
Confirmation
Transaction Status
Thank you for your payment
Your Order Number: _____
Transaction Reference Number: _____
Amount: _____
Go Home

Storyboard

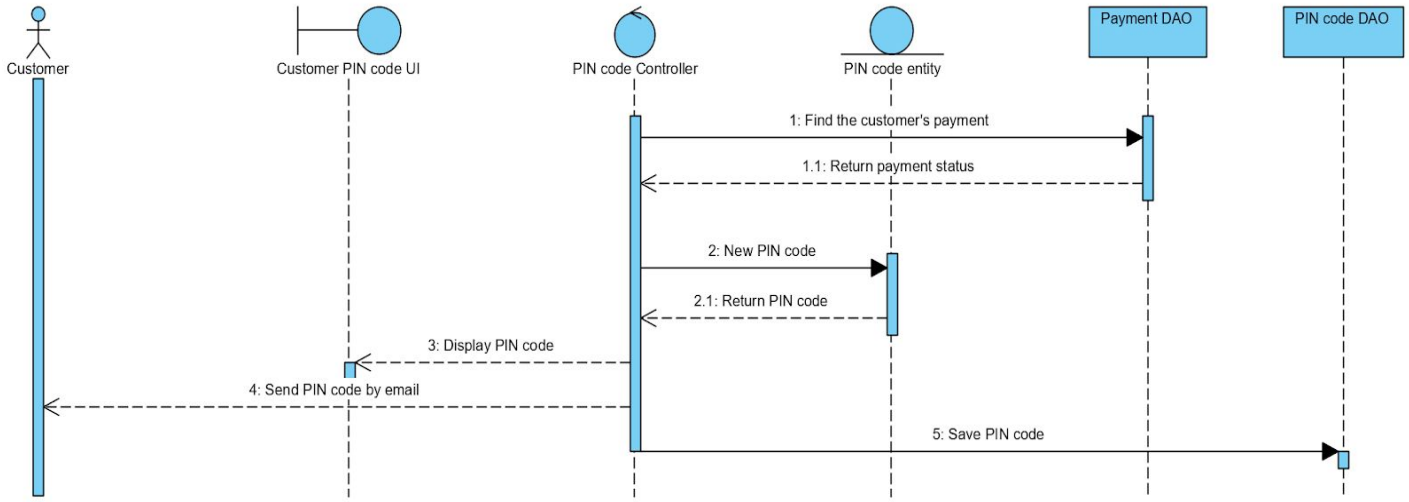


Design class diagram



- ## Use Case #3 (Assign a PIN code)

Sequence Diagram



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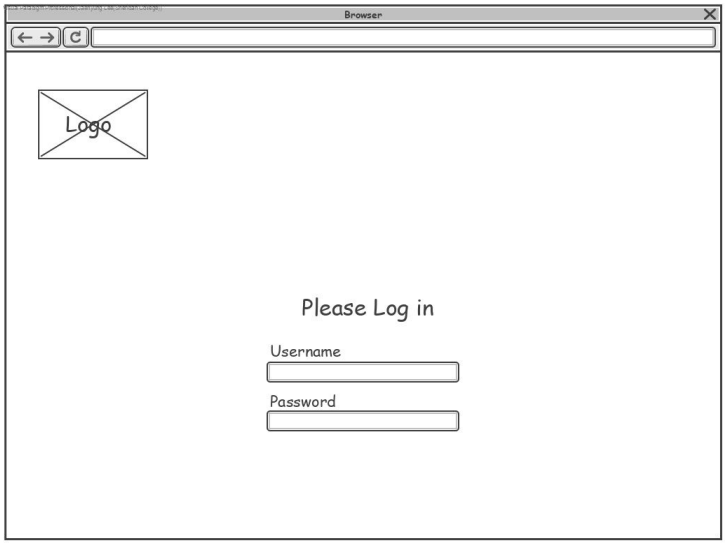
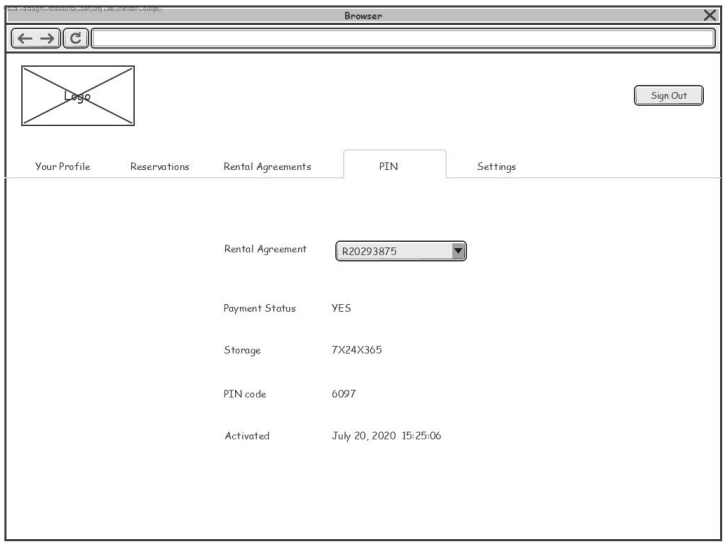
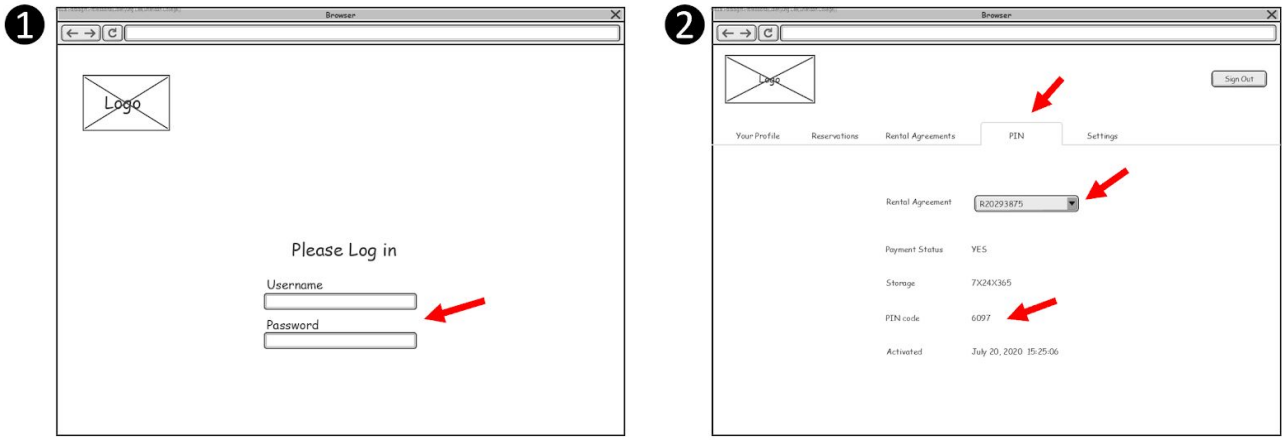
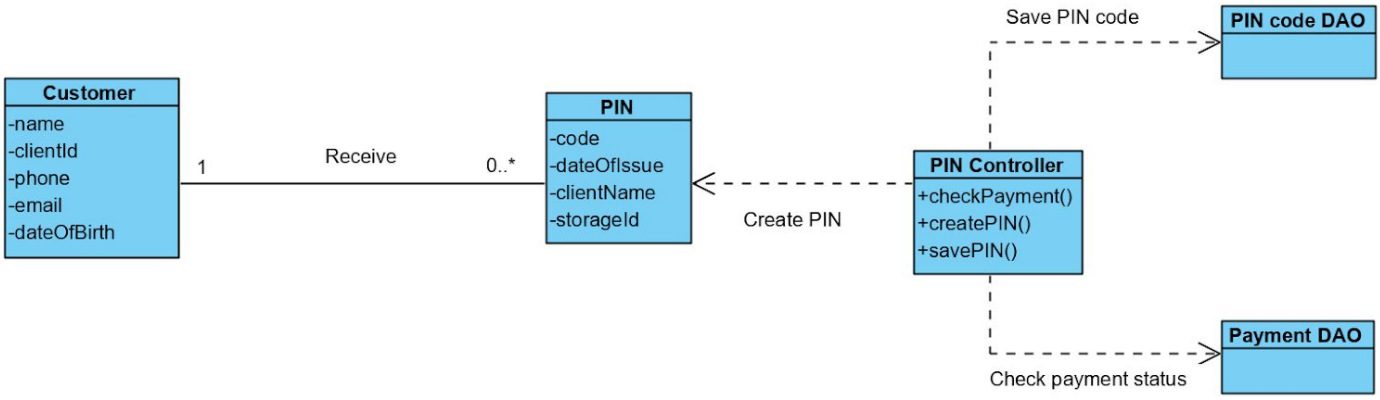



Browser
Logo
Sign Out
Your Profile
Reservations
Rental Agreements
PIN
Settings
Rental Agreement
R20293875
Payment Status
YES
Storage
7X24X365
PIN code
6097
Activated
July 20, 2020 15:25:06

Storyboard

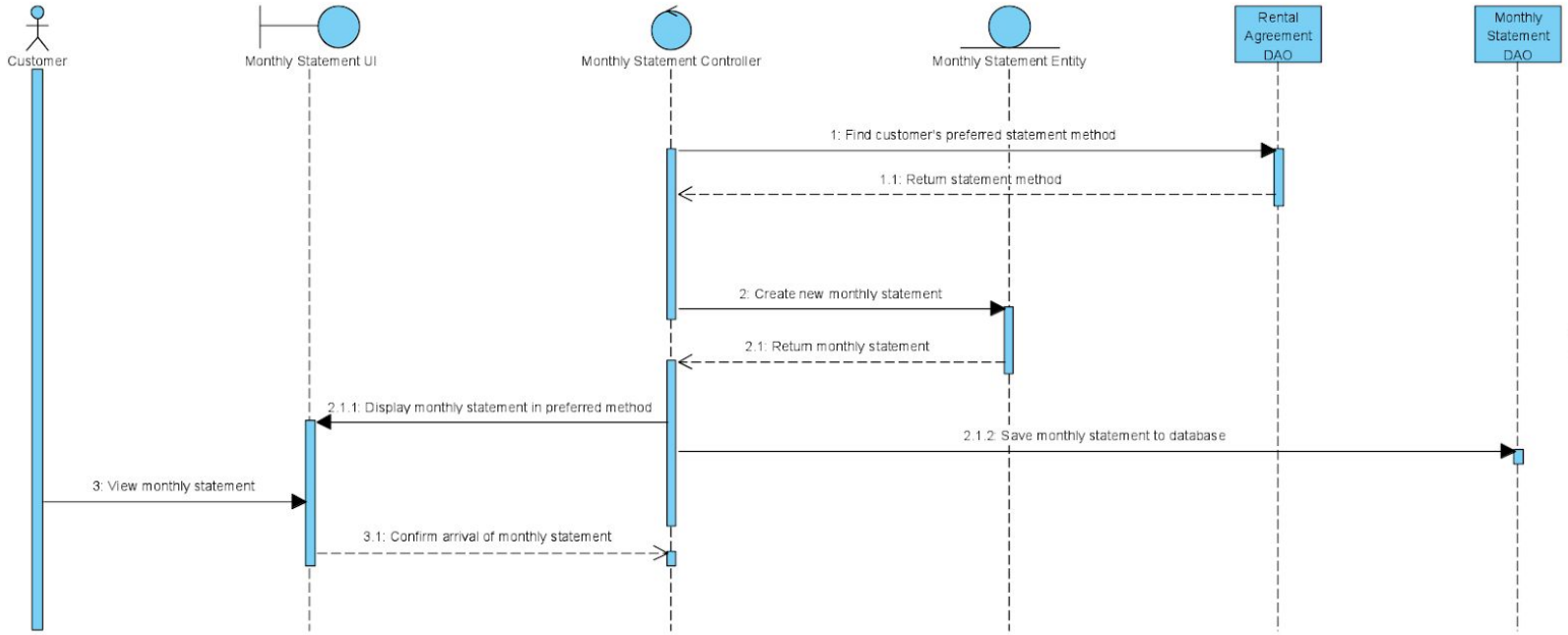

1
Browser
Logo
Please Log in
Username
Password
2
Browser
Logo
Sign Out
Your Profile
Reservations
Rental Agreements
PIN
Settings
Rental Agreement
R20293875
Payment Status
YES
Storage
7X24X365
PIN code
6097
Activated
July 20, 2020 15:25:06

Design Class Diagram



- **Use Case #4 (Provide monthly statements)**

Sequence Diagram



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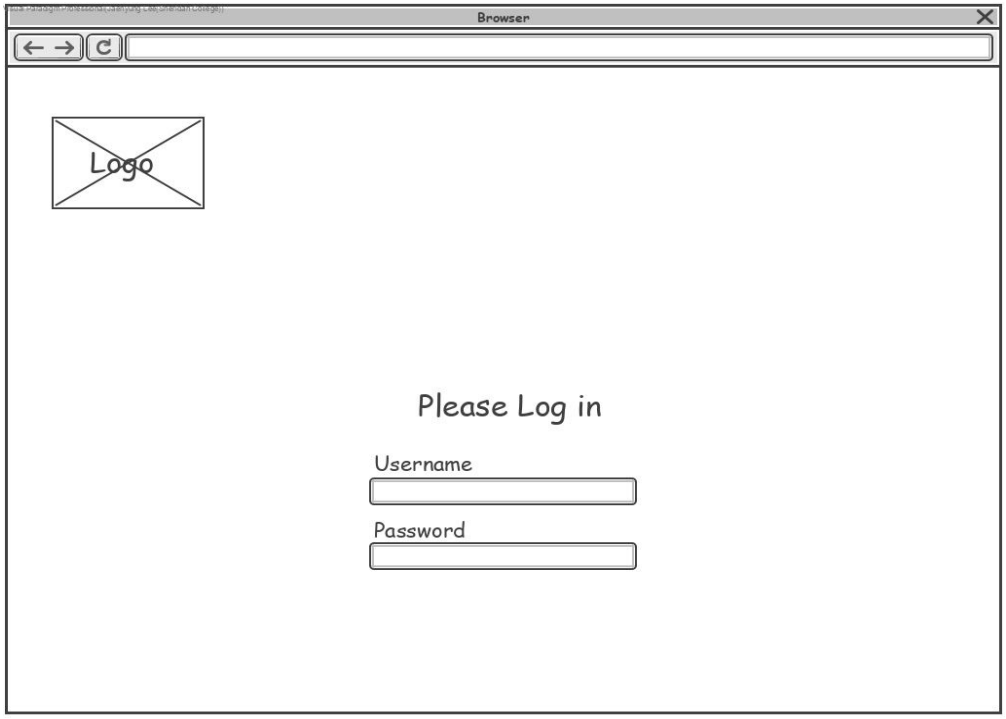
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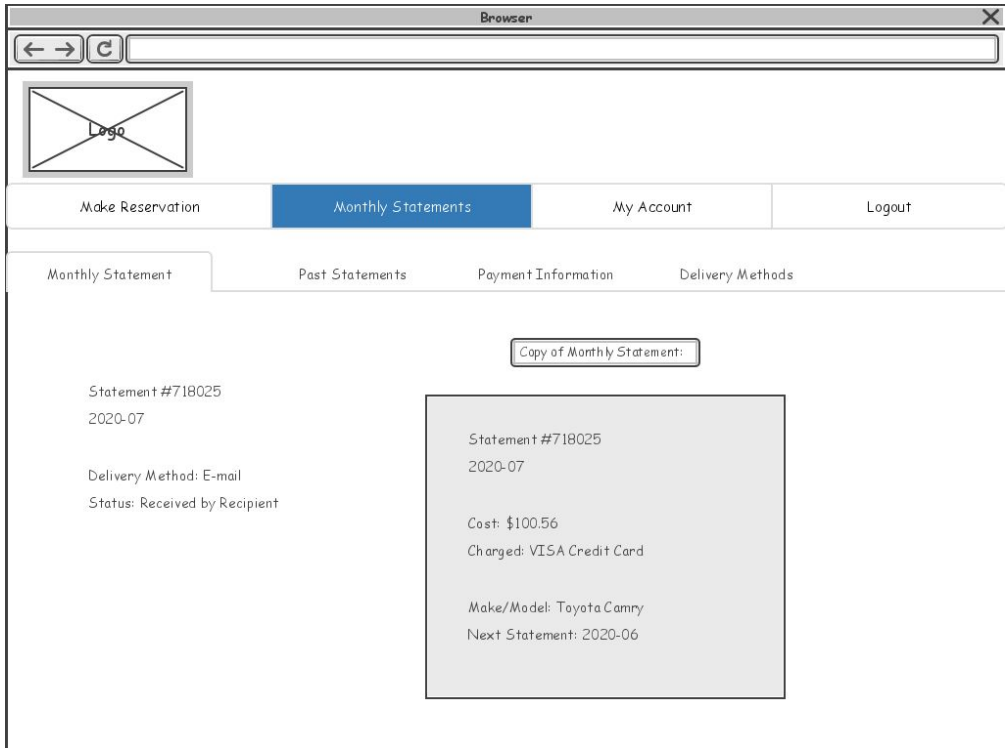
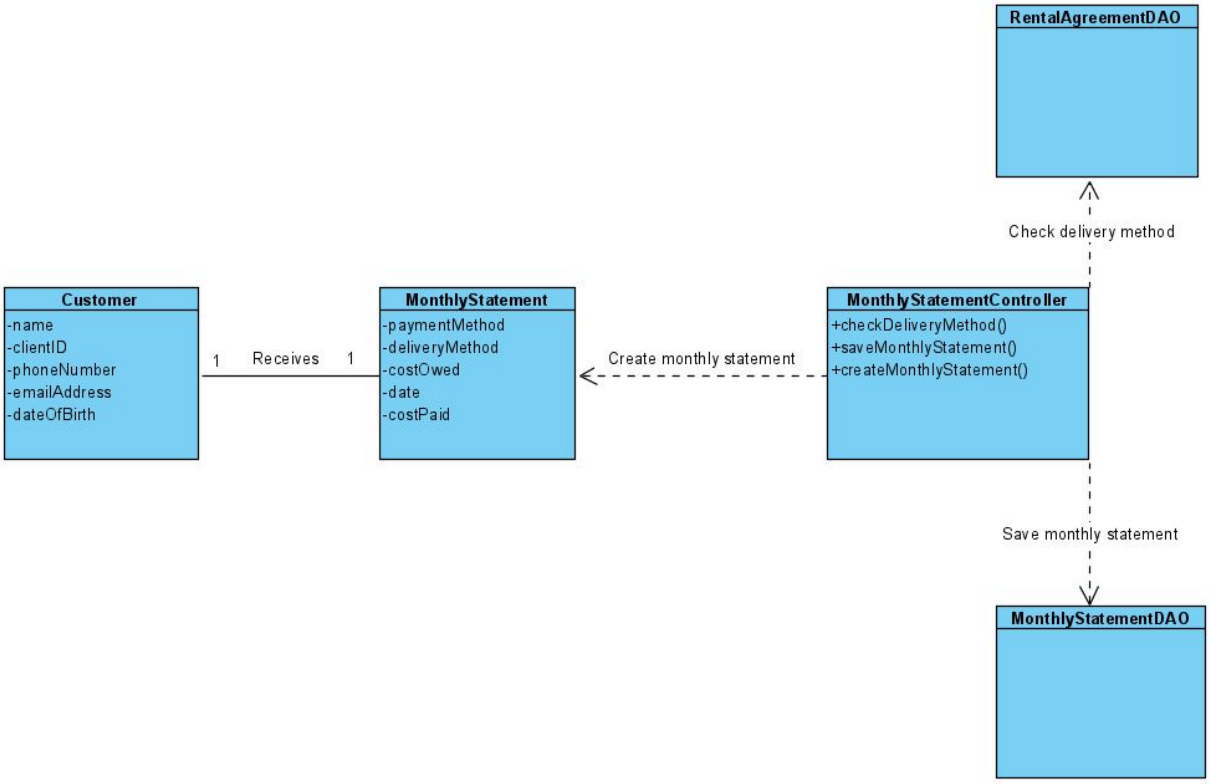
Please Log in
Username
Password


Browser
Logo
Make Reservation
Monthly Statements
My Account
Logout
Monthly Statement
Past Statements
Payment Information
Delivery Methods
Copy of Monthly Statement:
Statement #718025
2020-07
Delivery Method: E-mail
Status: Received by Recipient
Statement #718025
2020-07
Cost: $100.56
Charged: VISA Credit Card
Make/Model: Toyota Camry
Next Statement: 2020-06

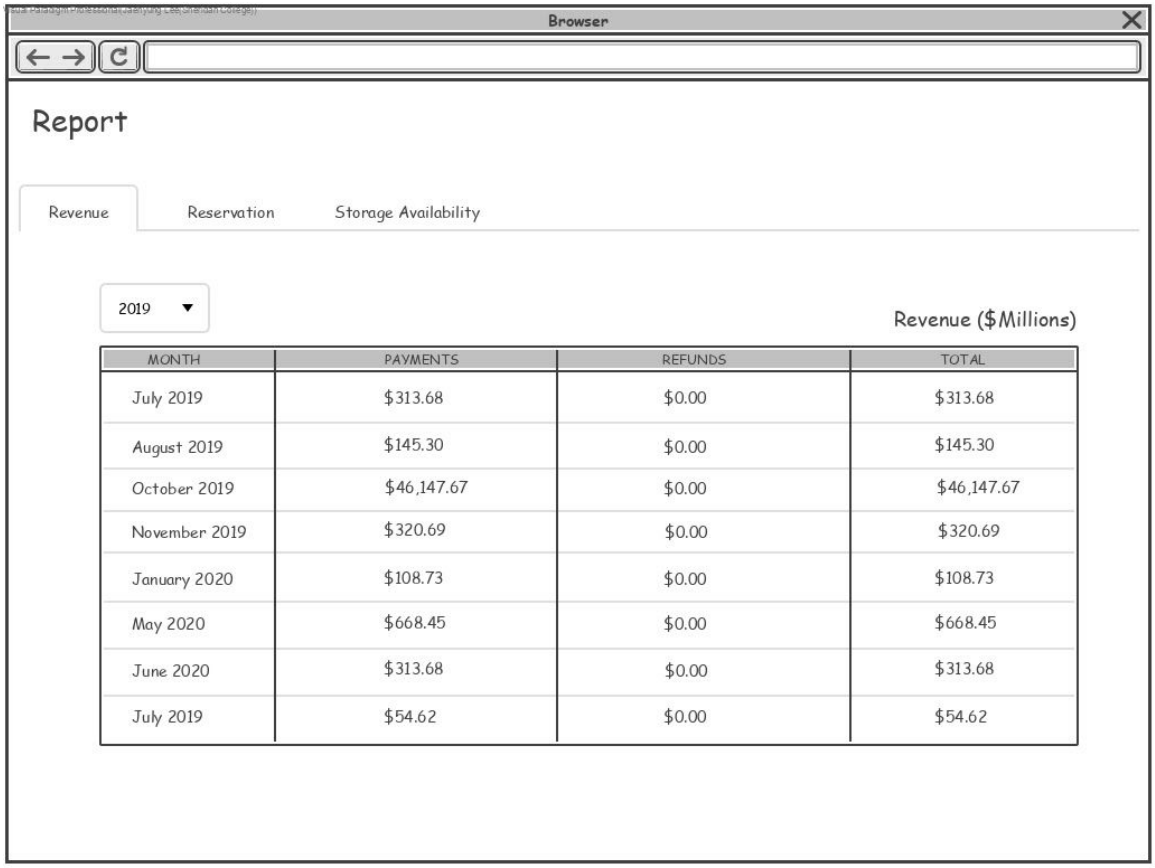
Design Class Diagram



Prototypes of reports

- ## Revenue

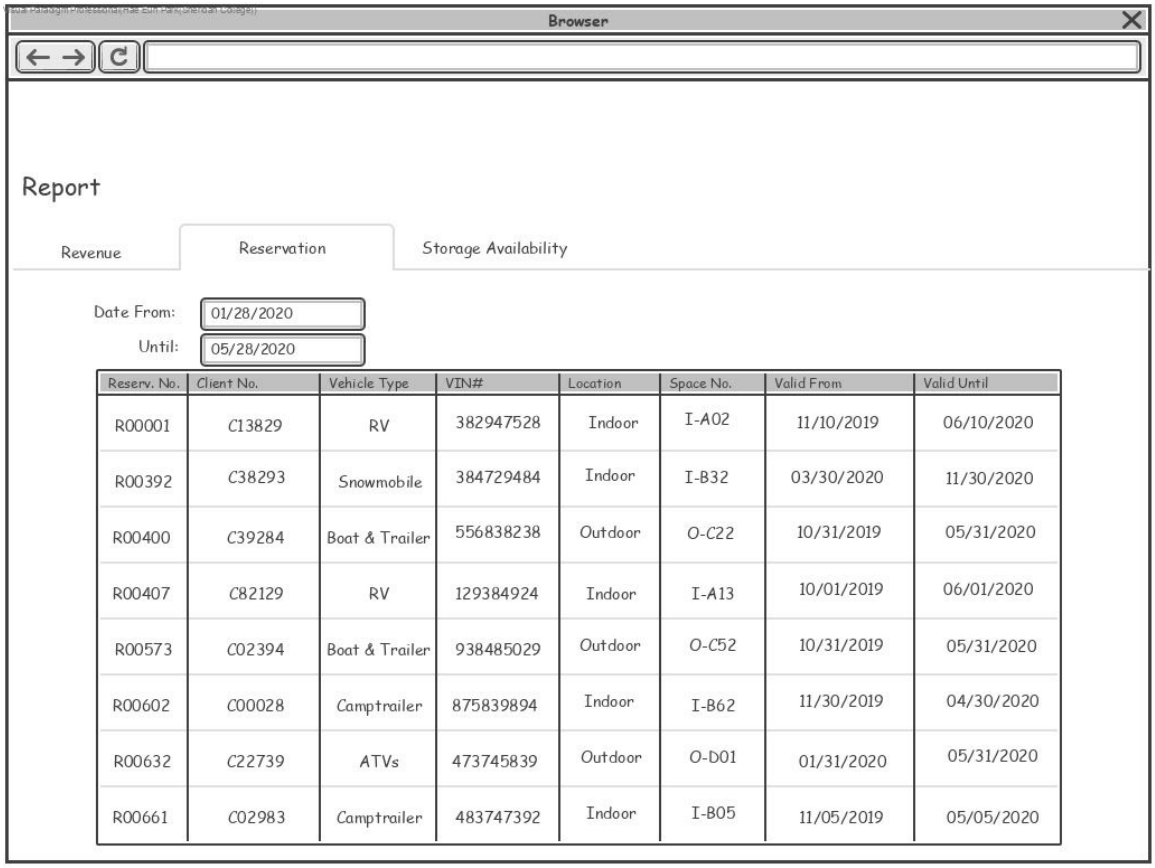
Description: This revenue report allows the owners to keep track of the growth in their business effectively. It enables them to have better insight in running their business in the future, making it possible for them to make better decisions to continue to expand their business.



MONTH	PAYMENTS	REFUNDS	TOTAL
July 2019	$313.68	$0.00	$313.68
August 2019	$145.30	$0.00	$145.30
October 2019	$46,147.67	$0.00	$46,147.67
November 2019	$320.69	$0.00	$320.69
January 2020	$108.73	$0.00	$108.73
May 2020	$668.45	$0.00	$668.45
June 2020	$313.68	$0.00	$313.68
July 2019	$54.62	$0.00	$54.62

- ## Reservation

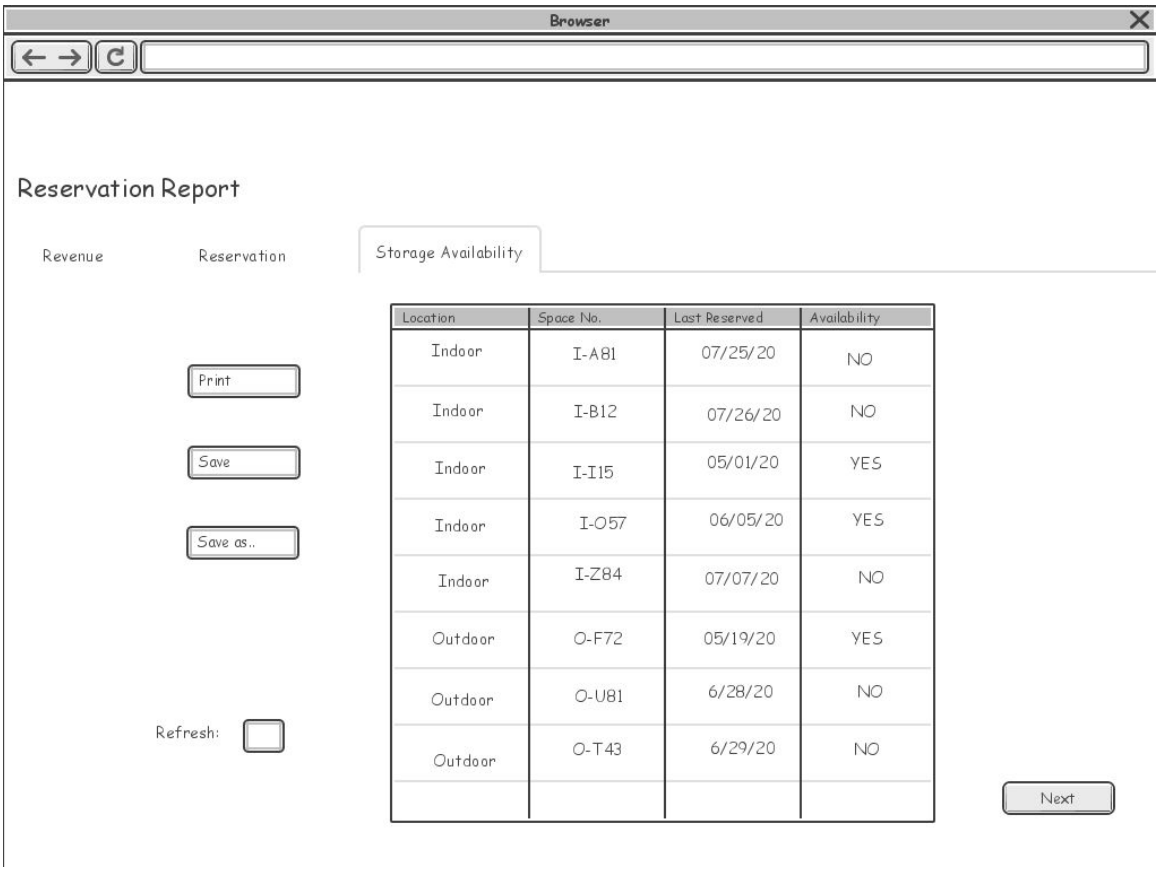
Description: This reservation report allows the owner to view the list of reservations of storage spaces within the set range of dates. This report displays the reservation number, client number, vehicle type, vehicle identification number, location of the storage, space number, and the reservation date range.



Reserv. No.	Client No.	Vehicle Type	VIN#	Location	Space No.	Valid From	Valid Until
R00001	C13829	RV	382947528	Indoor	I-A02	11/10/2019	06/10/2020
R00392	C38293	Snowmobile	384729484	Indoor	I-B32	03/30/2020	11/30/2020
R00400	C39284	Boat & Trailer	556838238	Outdoor	O-C22	10/31/2019	05/31/2020
R00407	C82129	RV	129384924	Indoor	I-A13	10/01/2019	06/01/2020
R00573	C02394	Boat & Trailer	938485029	Outdoor	O-C52	10/31/2019	05/31/2020
R00602	C00028	Camptrailer	875839894	Indoor	I-B62	11/30/2019	04/30/2020
R00632	C22739	ATVs	473745839	Outdoor	O-D01	01/31/2020	05/31/2020
R00661	C02983	Camptrailer	483747392	Indoor	I-B05	11/05/2019	05/05/2020

- ## Space availability

Description: This space availability report allows the owners to view which spaces are currently available for reservation. This report displays the location of the space, space number, date it was last reserved, as well as its current availability status. This ensures that owners have the most up-to-date information about the availability of the reservation spaces.



Location	Space No.	Last Reserved	Availability
Indoor	I-A81	07/25/20	NO
Indoor	I-B12	07/26/20	NO
Indoor	I-I15	05/01/20	YES
Indoor	I-O57	06/05/20	YES
Indoor	I-Z84	07/07/20	NO
Outdoor	O-F72	05/19/20	YES
Outdoor	O-U81	6/28/20	NO
Outdoor	O-T43	6/29/20	NO