

# SuperRent Application

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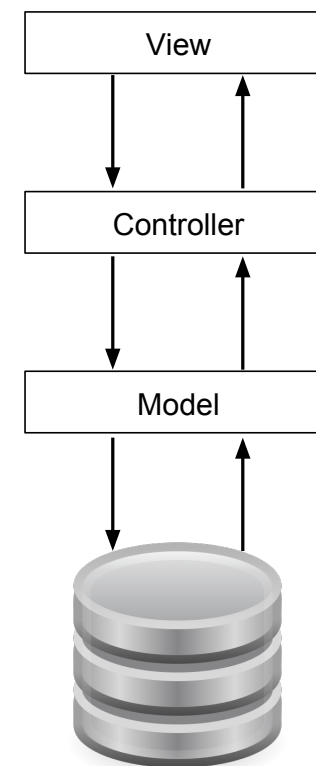
# Overview

## Desktop application for car rental services

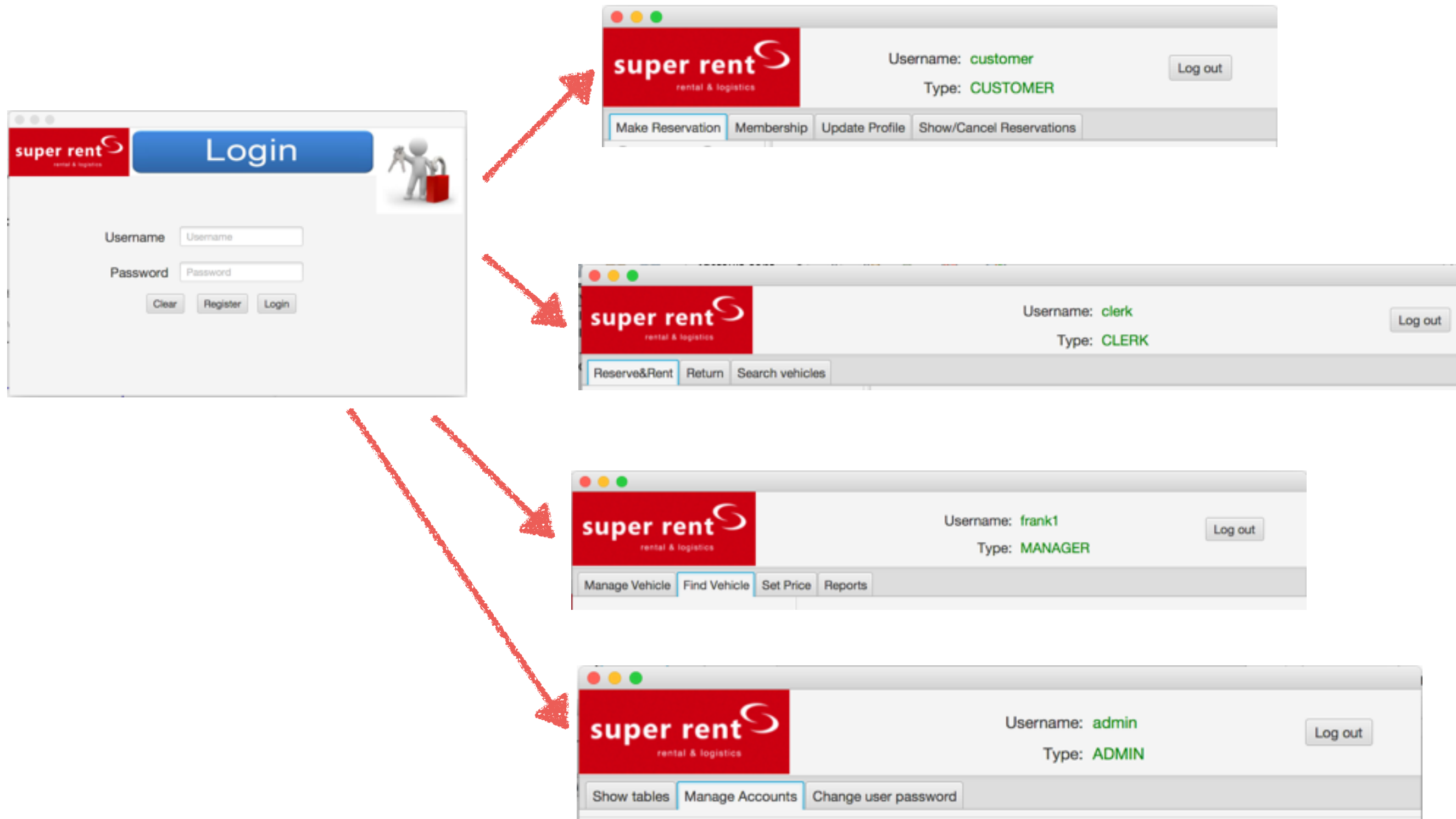
- user need to register before using the application
- installed on branch computers as well as customer personal computers

## 3-tier architecture

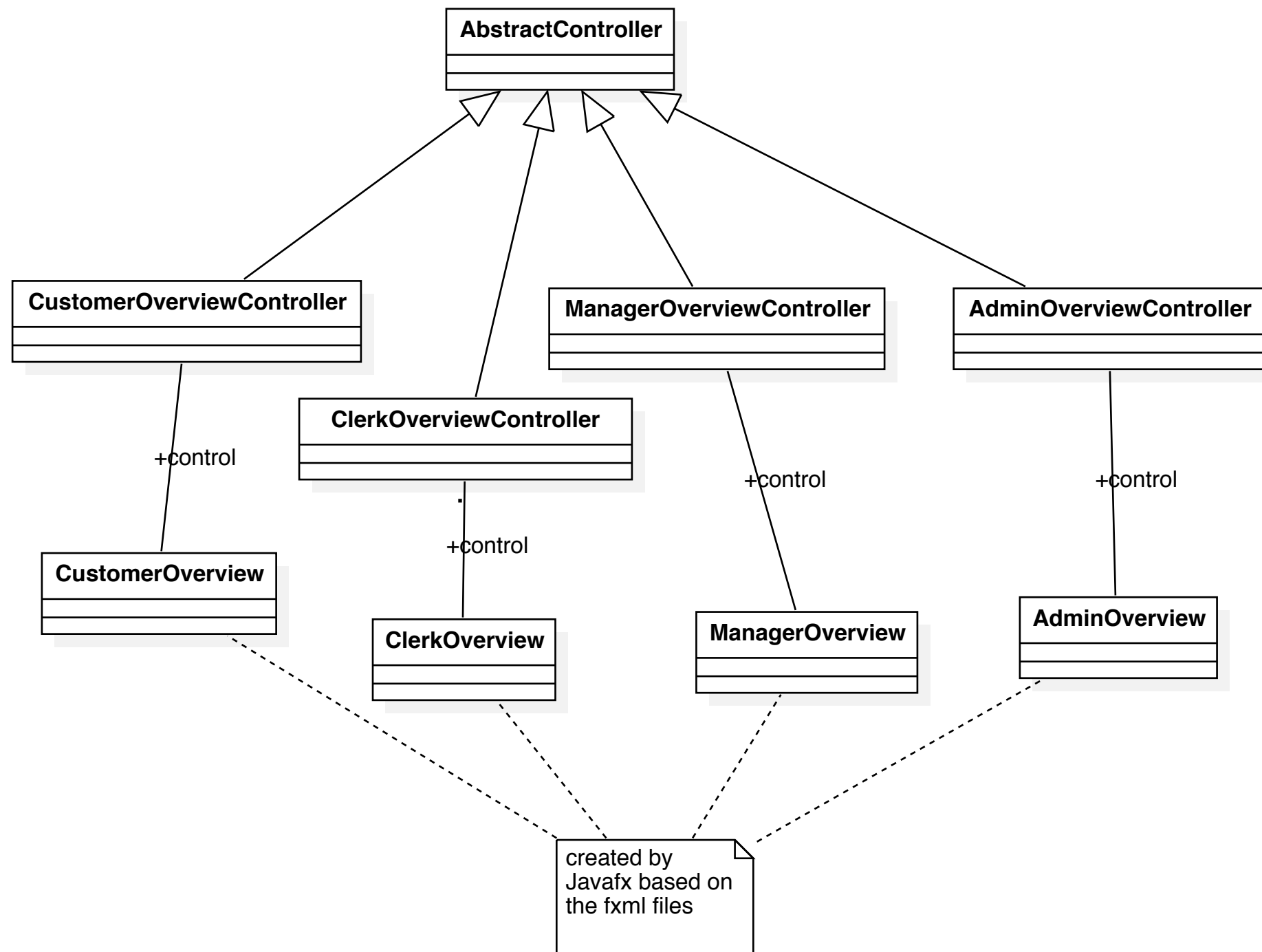
- views and controllers are closely coupled
- model is independent of views and controllers



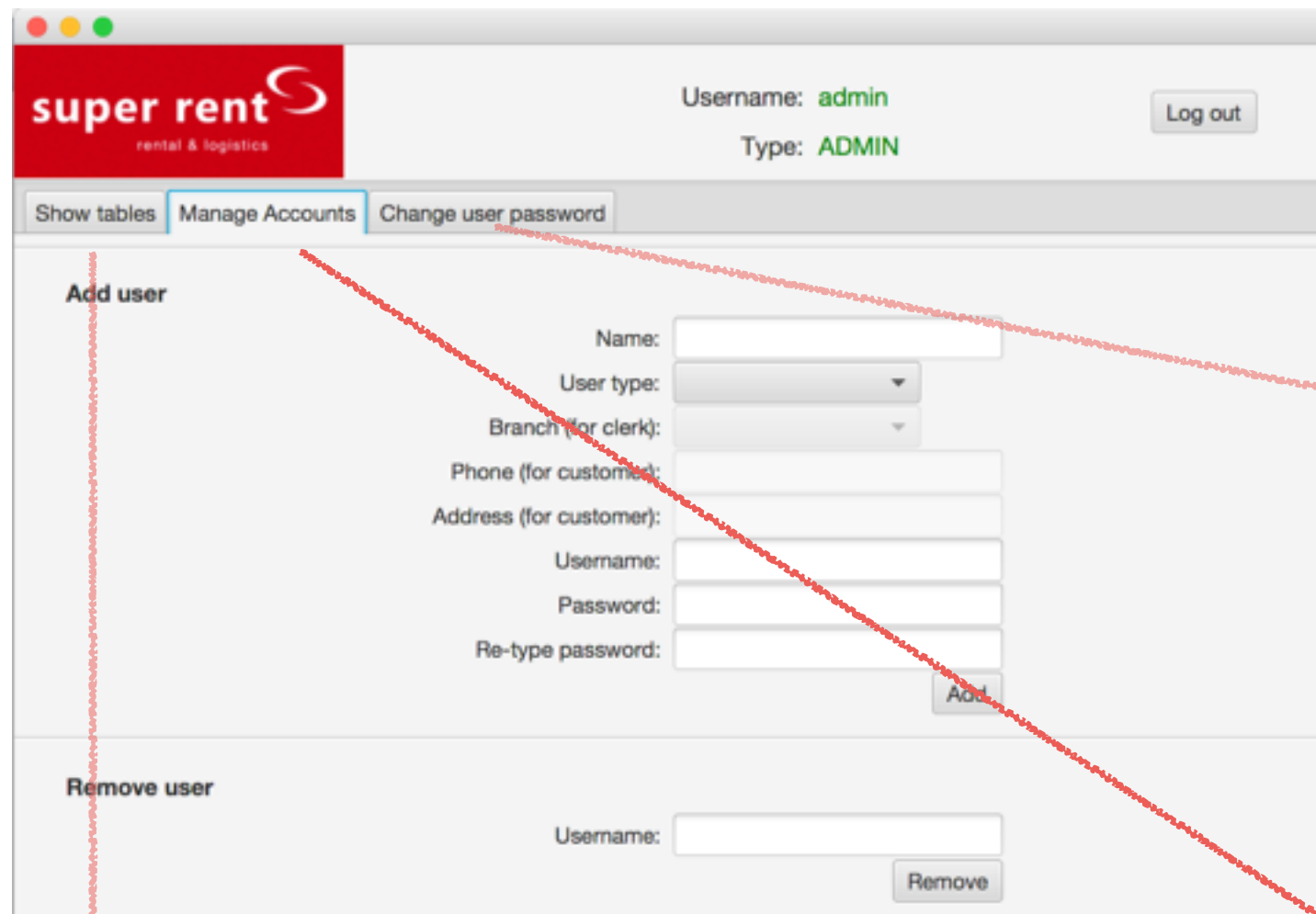
# Different views and functionalities for different users



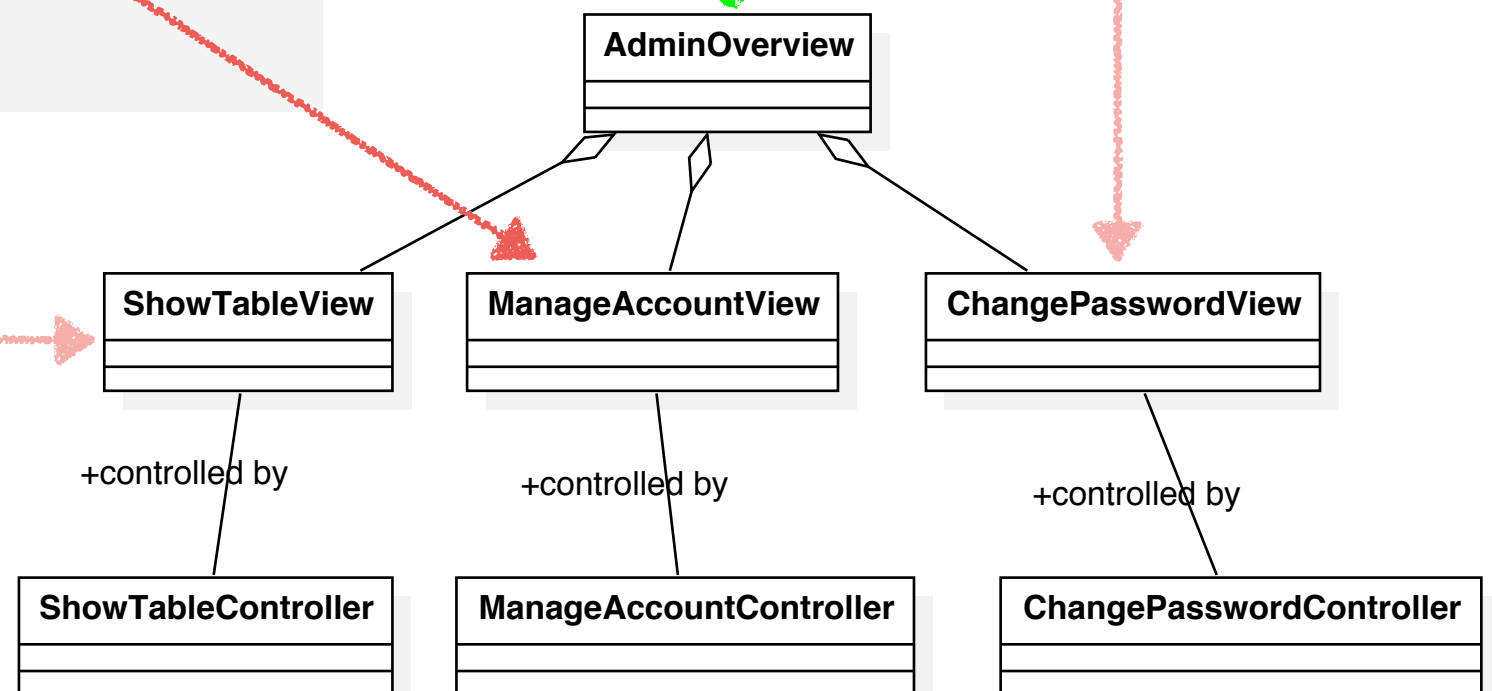
# Overall structure to support different users



# Extensible tab-like interface

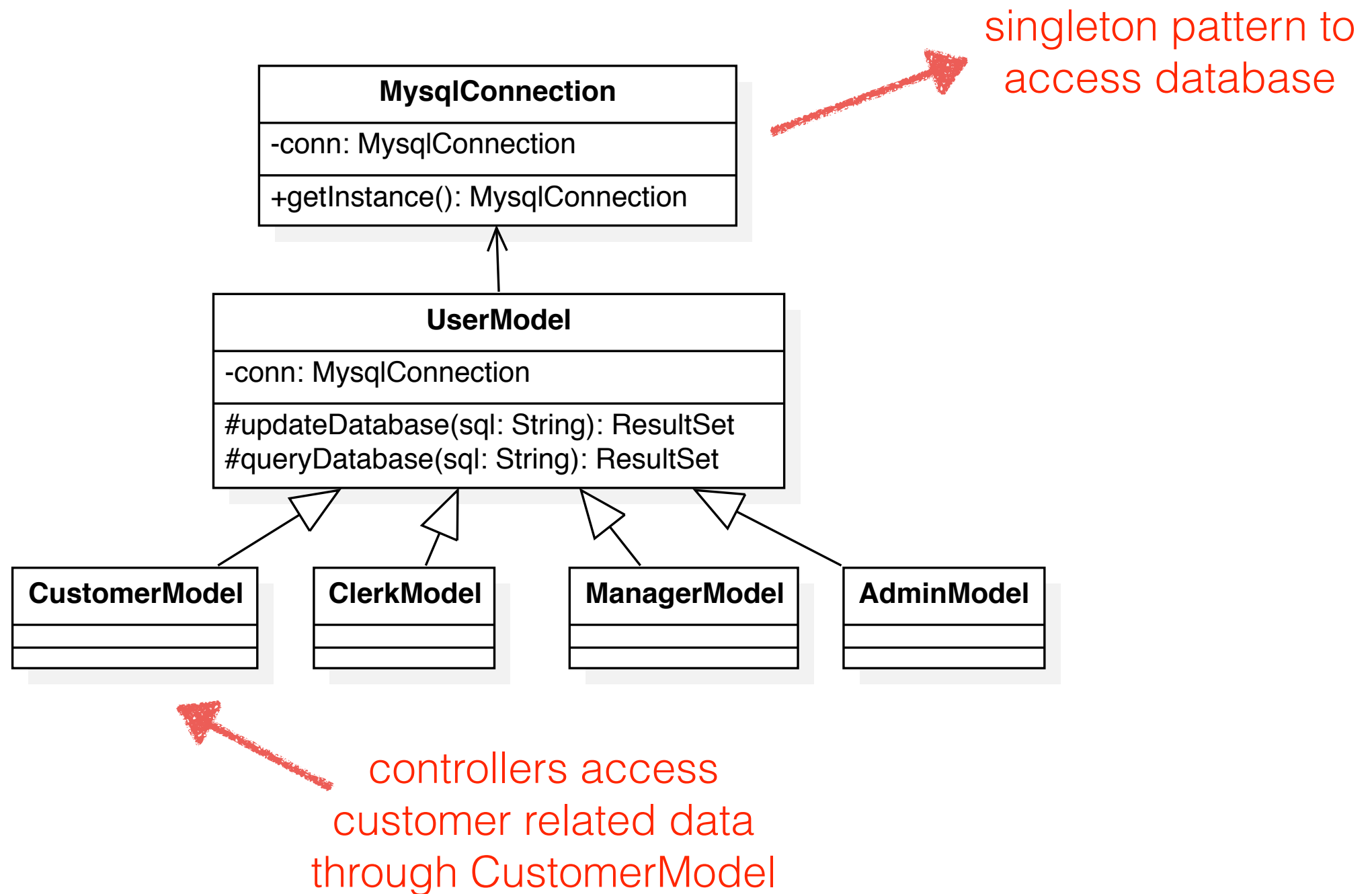


can add views and controllers easily



each tab is controlled by a separate controller

# Data operations through models



# Message passing between pages

Customer: supfrank      Phone: 888-888-8888  
Type: van      Plate No: IGOMAR  
From: 2015-04-15, 6:00      To: 2015-04-16, 14:00  
Pickup: 300 Regina Street, Toronto      Driver license: V891266

☐ Road Star    ☐ Redeem 1000 points    ☐ Redeem 1500 points

Type	Time	Renting fee	Insurance	subtotal
van	1 day(s)	1 x 100.00	1 x 10.00	110.00
	8 hour(s)	8 x 20.00	8 x 2.00	176.00
child_safety_seat(1)	1 day(s)	1 x 1 x 10.00		10.00
	8 hour(s)	1 x 8 x 2.00		16.00
ski_rack(1)	1 day(s)	1 x 1 x 10.00		10.00
	8 hour(s)	1 x 8 x 2.00		16.00
total: 338.00				

Reserve    Select vehicle    Rent    Print

AppContext
-tmpData: HashMap<String, String>
+setTempData(key: String, value: String): void
+getTempData(key: String): String

Payment

CheckOut

Amount 338.00

Card type Card Type

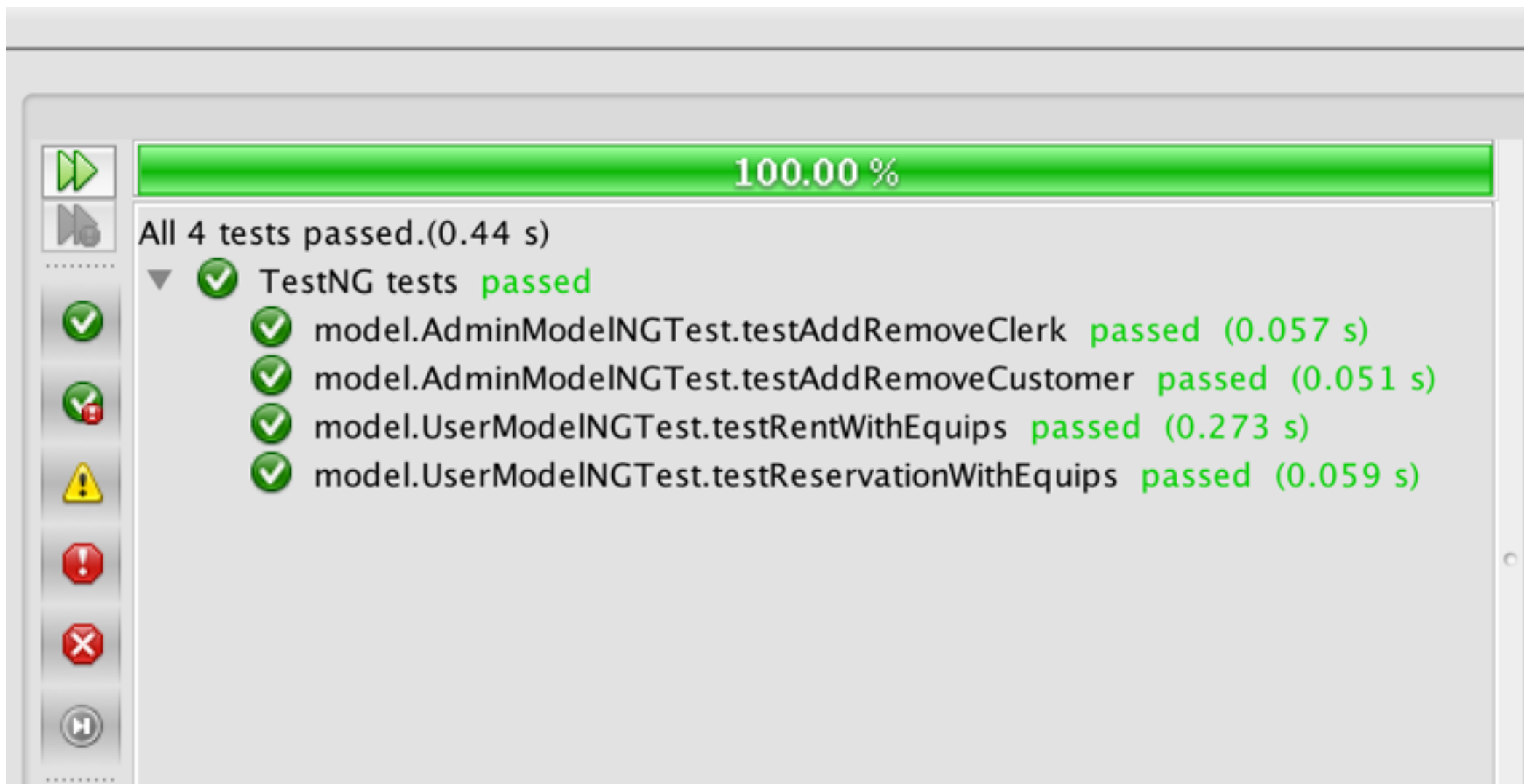
Card number

Expiry time (MM/YYYY)

trigger

# Test

- Human testing (screenshots and manually checking data)
- Automated testing





# Demonstration

# Issues

## Updating status of reservation

- pending reservation doesn't become expired after the pickup time
- adding a time trigger in database could possibly resolve this issue

## Updating membership status

- membership fee is paid annually
- no mechanism to check if the membership has expired
- adding a time trigger in database could possibly resolve this issue

**Thank you!**