## Class design description

## Class names and attributes

comany\_name users cards

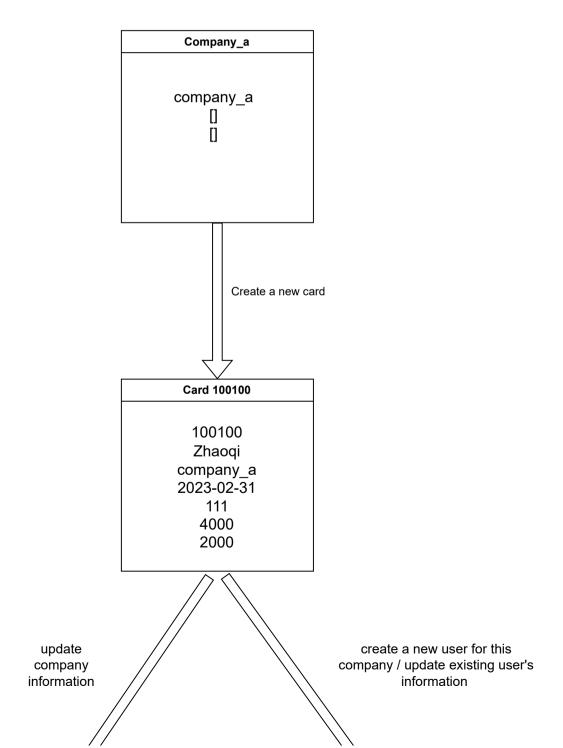
user\_name com\_name user\_permission user\_cards

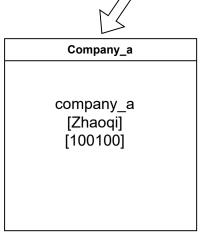
User

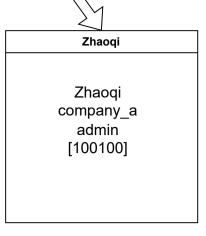
card\_number
user\_name
com\_name
expiration\_date
masked\_number
limit
balance

Card

## What happens when a card object is created







## **Design ideas**

- 1. Attributes cover the information that the challenges required
- 2. Added some extra attributes in each class for easier identification and authorization
- 3. There is no automatic relation among these classes so that it is very flexible to update any attributes from backend, which means more fine-grained permissions can be easily implemented.