

Group 5

SYS466 – Tevin Apenteng

Members: Raymond Yu, Masoumeh Farjoudchokami, Alejandro Mesa

Assignment 1

### **Rent a Bike**

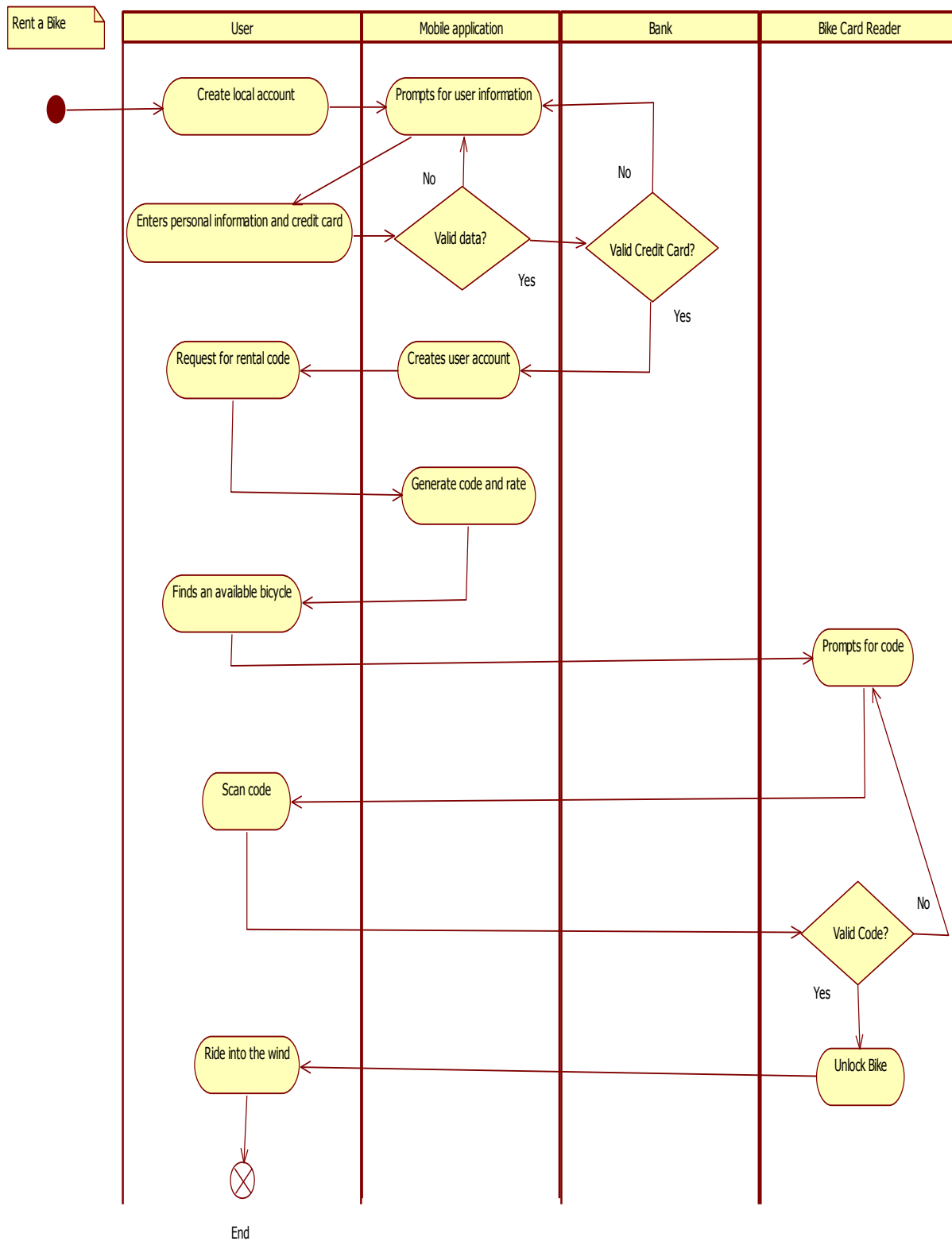
Use case: User successfully rents a bike

Precondition: User is a local resident and is on the mobile app

Postcondition: User rents a bicycle

Actor (User)	System	Data/Concept used
Clicks on create an account	System displays a form and prompts for user information	
Enters personal information	System validates the data. Data is valid. System creates local customer account	Class (Local Resident) Name Age Address Email Credit card
User request for rental code	System provides user with code and rental rate	Rental code Rental rate
User exits the System	System logs user out	
Finds an unreserved bicycle	System prompts for card information or code	
User scans the code	System validates the code and unlocks the bicycle for use	

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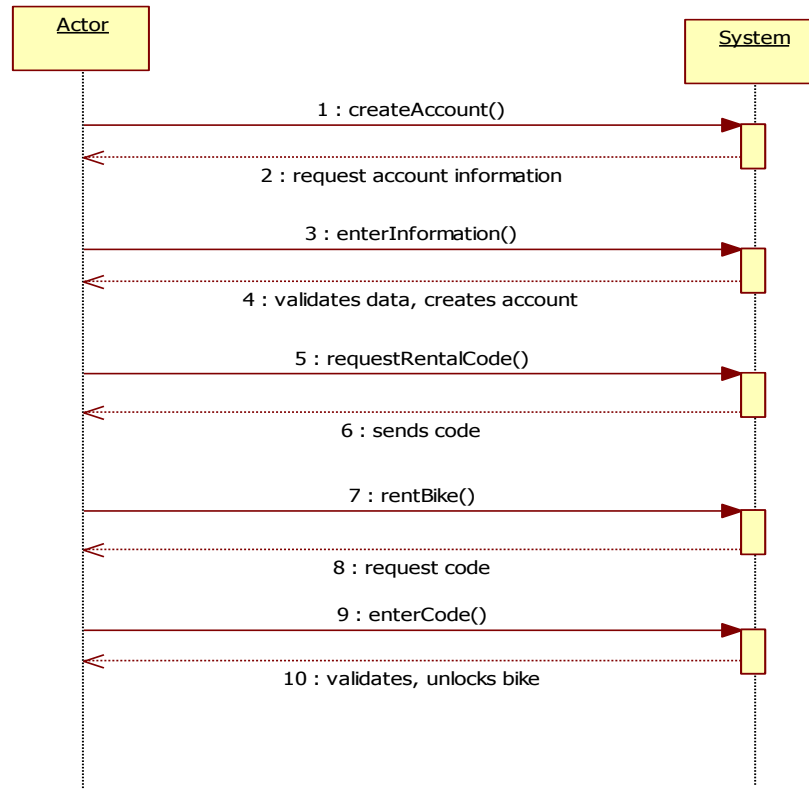


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### Return a Bike

Use case: User successfully return a bike

Precondition: User is a membership on the website, app or a kiosk interactive screen

Postcondition: User returns a bicycle

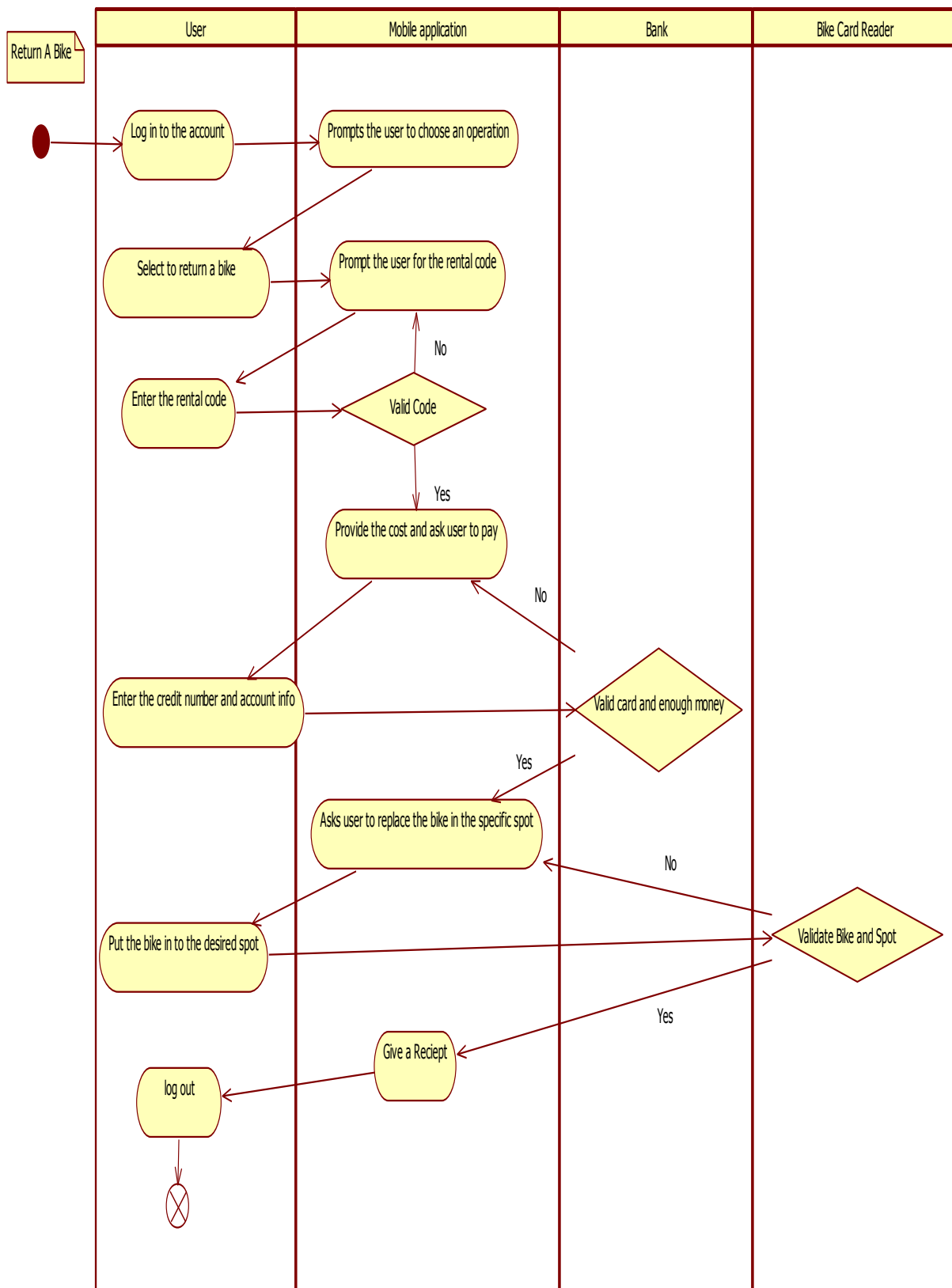
Actor (User)	System	Data/Concept used
Clicks on log in to the account	System displays the user profile and provide different operation like return, and extend for the user to choose.	User and Password
User request to return a bike	System asks the rental code of the bike	
User enters the rental code	System validate the code, and it provides the cost, then asks the user to pay with credit card	Rental Code
The user enters the credit card information to pay	System checks that the transaction is successfully done and ask to the user to locate the bike in the specific location	Credit card and the user bank account information
User put the bike in to the desired spot	System validates the bike is in the desired spot and give the user a receipt	Bike code and receipt number
User asks to exit from the account	System logs off	

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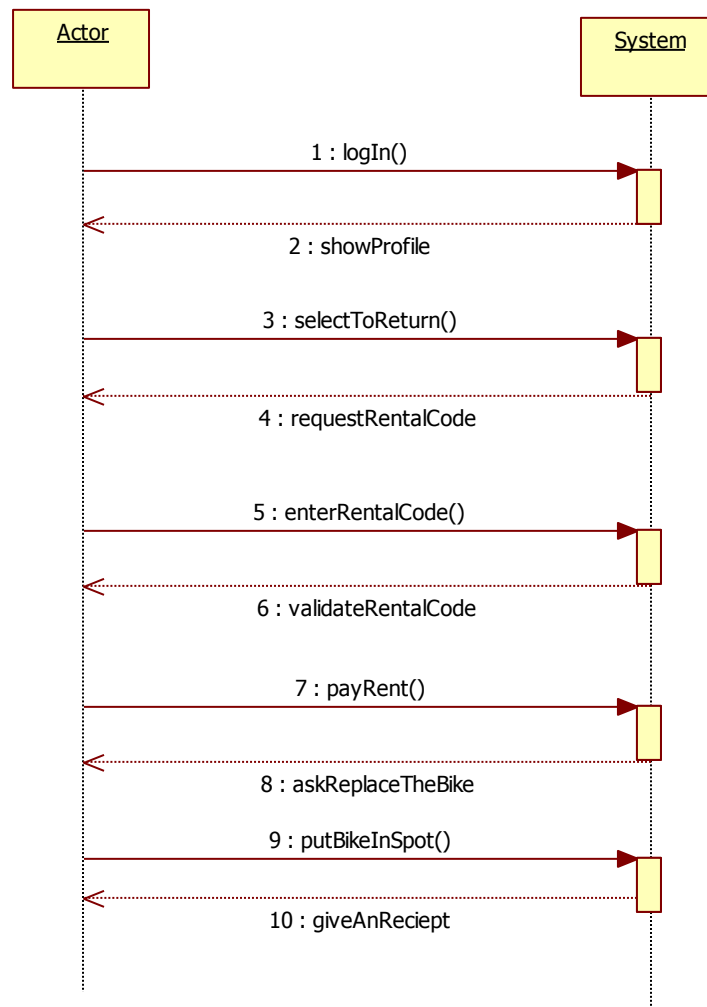


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### **Add Bike to Fleet**

Use case: Municipality employee successfully adds a bike to the fleet

Precondition: User is an employee on the website, app or a kiosk interactive screen

Postcondition: User add a bicycle to the fleet

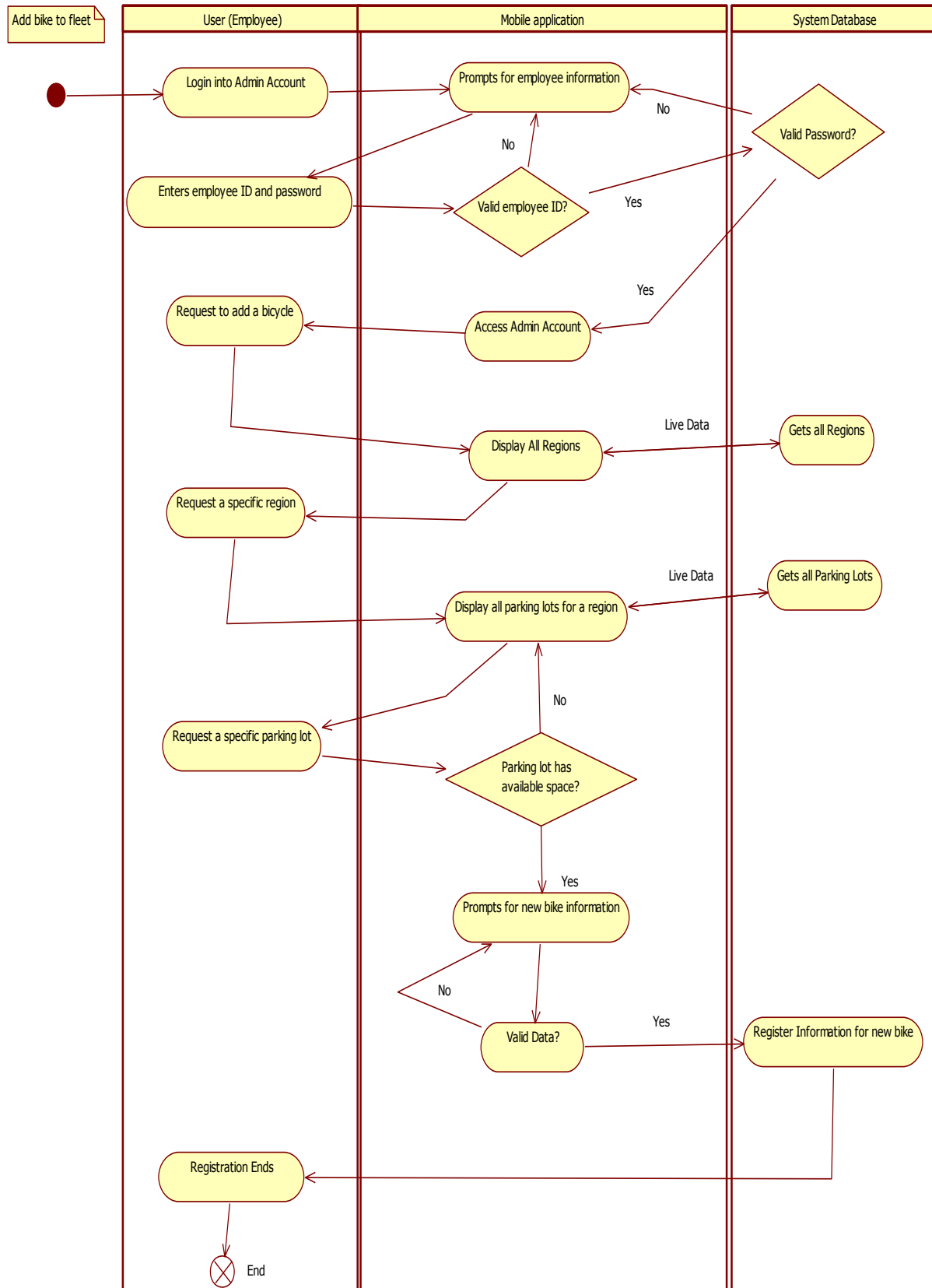
Actor (User)	System	Data/Concept used
Clicks on admin account (only employees)	System displays a form and prompts for user information	
Enters admin information	System validates the data. Data is valid. System access the admin account	Class (Employee) Name Employee ID Password
User request to add a bike to a region	System provides user with a group of regions	List of all regions
User request to add a bike to a parking lot	System provides user with a group of parking lots	List of parking lots of an specific region
Finds a parking lot with space	System prompts for new bicycle information	Electronic Combination Lock Location Tracker ID Credit Card Reader ID Bicycle Type (Mountain or Regular)
User exits the system	System logs off	

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