Solution Design

Software Design Specification

1 Introduction

This section describes the design for the new car rental company API service .

2 Data Design

2.1 database description

t_car

	Field	Type	Not Null	Default Value
P	id	varchar(255)	Not Null	
	rent_time	datetime		
	model	varchar(255)		
	remain_days_to_delivery	int		
	status	varchar(255)		
	time_to_delivery	int		
	date_created	datetime		
	date_update	datetime		
	last_rented	datetime		

t_rent_info

	Field	Type	Not Null	Default Value
P	id	varchar(255) COMMENT "Id "	Not Null	
	date_created	datetime		
	date_updated	datetime		
	order_time	datetime		
	start_delivery_time	datetime		
	status	varchar(255)		
	real_receive_time	datetime		
	expect_recieve_time	datetime		
	car_id	varchar(255)		
	customer_id	varchar(255)		
	date_update	datetime	Not Null	
	actual_receive_time	datetime		
	actual_return_time	datetime		
	expect_receive_time	datetime		

t_customer

	Field	Type	Not Null	Default Value
P	id	varchar(255)	Not Null	
	name	varchar(255)		
	status	varchar(255)		
	rent_id	varchar(255)		
	date_created	datetime		
	date_update	datetime		
	ticket	varchar(255)		

3 api design

/car/save   save car infomation

/car/list list all cars

/car/listCarInStock   list car in the stock

/rent/order rent a car

...

4 businiess flow

: Customer

login   rent service   car service

1: login

1.1: validateSession

2: order

3: pay

3.1 fronzen car

4:delivery

5:recieve

6: return