car4go (team3)

Overview

We are giving up the “social network”. We try to make full use of the car resources for university students. The students without having a car can search for those who provide car sharing. Both sharing inside a city and for a long-distance trip are provided. Users can also choose to rent spare cars. What’s more, we provide users with the functionality to initiate a trip with his car, for example, go ski in weekend. Others who are interested in it may join.

Product backlog

1. University-map-based access
   A non-logined user will only see some other users (who provide care rent or sharing) on a location-based map. Besides that, a logined user will have access to a list to cars (with departure and destination). All the owners listed there are the students in the same university.

2. Car share
   No matter the trip is inside the city or a long-distance travel, our web app will make it easy for users to distinguish them and choose the right service. A customer will pay the money that a provider specified on that day after the trip is finished. Not only cash is encouraged, we also privide online payment system.

3. Spare car rent
   For those students who don’t use their cars often, they can rent it to students in the same university. Price, time period and any other requirements must be specified before the rent happens. We will provide copies of contract, e-signed by both of them to avoid possible dispute.

4. Trip share (optional)
   Similar to car share, the functionality of trip share is also based on cars and the owners. However, we ask the initiator to choose the location, expense per person and duration. Photos and location descriptions are also encouraged to be provided.

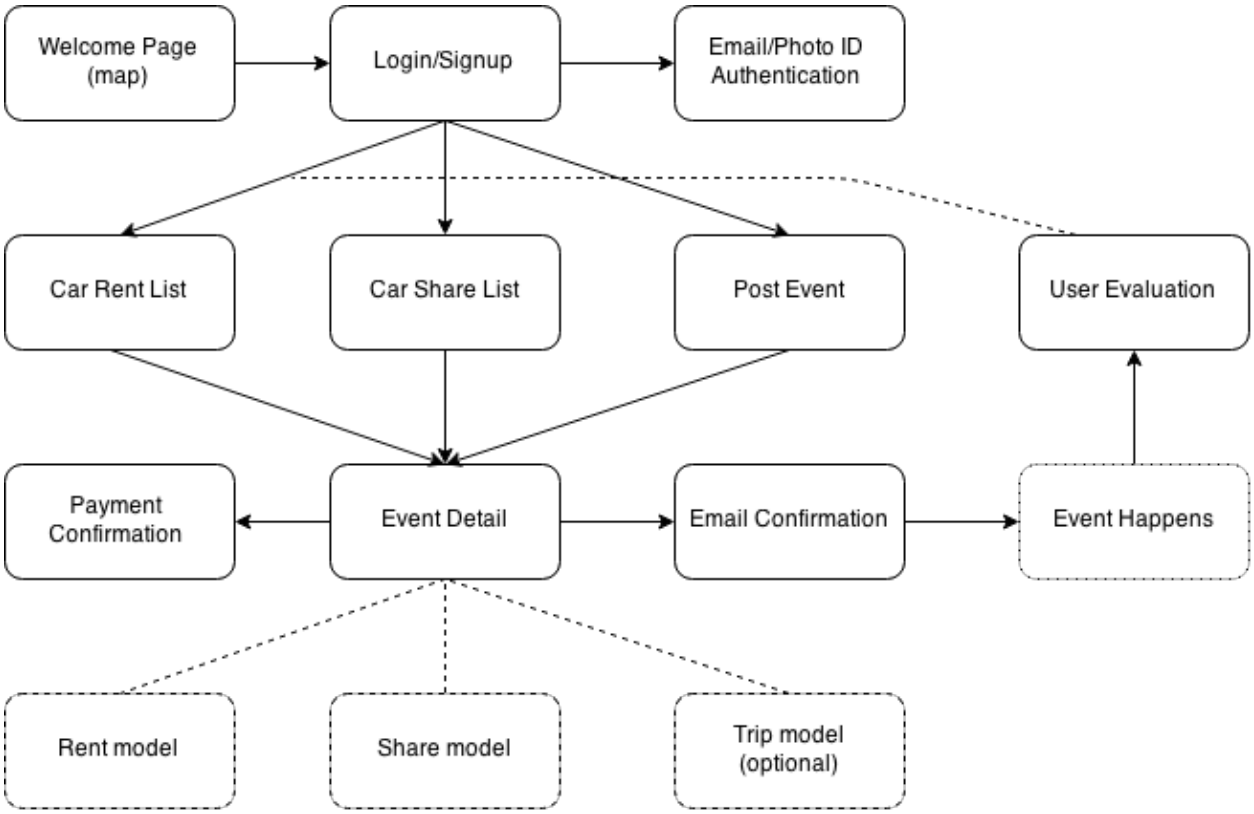
5. Authentication & Email
   We will confirm each sign up request by university email and university photo ID. Unconfirmed users may not use the services. Each confirmed schedule will be emailed to both the provider and customer.

6. E-payment
   Paypal payment services wil be integrated to our payment system. Customers will push the trip money to our payment center and providers will send a pull request to

that part of money. Once the car has arrived at the destination and customers agree with it, we will confirm the pull request.

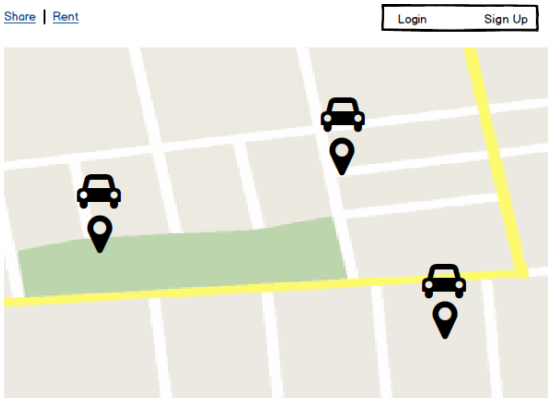
7. Evaluation
   Each success or failure of a confirmed schedule will influence the evaluation on this user. Everyone on this platform can access to the evaluation of any other users.

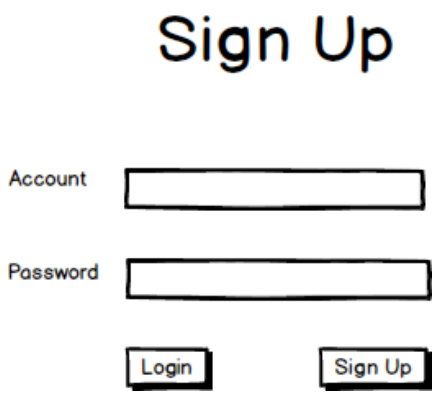
Workflow

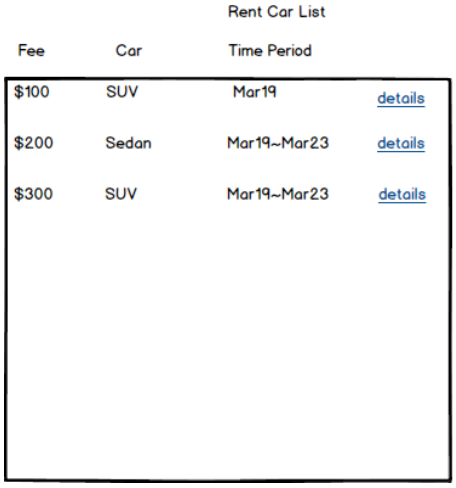


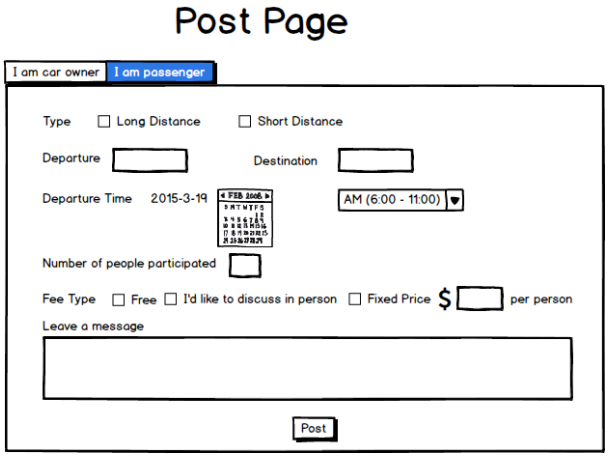
Mock up

These pictures can also be found in mockup folder.
We will make use of navigation bar which is not shown here.









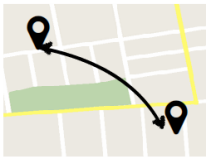
Share Car Detail Page

City: Pittsburgh

Departure: CMU Campus

Destination: Waterfont

Share Time: March 19 Morning



Miles 4.5 miles

Fee $10 / per person

Available number of people 1

Car type SUV

Status Valid

Apply

Get In Touch With Car Owner

Car Owner BigJohn

Credit Level High

Post Time March 18 5:36 pm

Share Car List

Distance Type	Time	Fee	Car	Departure	Destination	People	
Short	Mar19 Morning	$20	SUV	CMU campus	Waterfont	2	details
Short	Mar19 AfterNoon	$10	Sedan	Centre Ave	U Pitts Campus	1	details
Long	Mar20 Morning	$100	Crossover	Pittsburgh	Cleverland	1	details
Long	Mar21 Morning	$200	Minivan	New York	Washington DC	2	details
Long	Mar22 Morning	$250	Sedan	Pittsburgh	Seattle	2	details
Long	Mar21 Afternoon	$150	Sedan	LA	Seattle	1	details
Long	Mar23 Morning	$100	Minivan	San Jose	LA	3	details

Post Page

I am car owner | I am passenger

Type ☐ Long Distance ☐ Short Distance

Departure [ ] Destination [ ]

Departure Time 2015-3-19  AM (6:00 - 11:00)

Available seats [ ]

Car Type ☐ SUV ☐ sedan ☐ minivan ☐ van

Fee Type ☐ Free ☐ I'd like to discuss in person ☐ Fixed Price

$ [ ] per person

Post

User Rating

Rate the Car Owner : BigJohn 

Your Trip CMU Campus to Waterfont

Time March 19 10:27 am ~ March 19 11:00 am

Fee $10

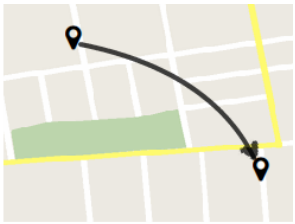
From: CMU campus

To: Waterfont

Mails: 4.5 miles

Car owner: BigJohn

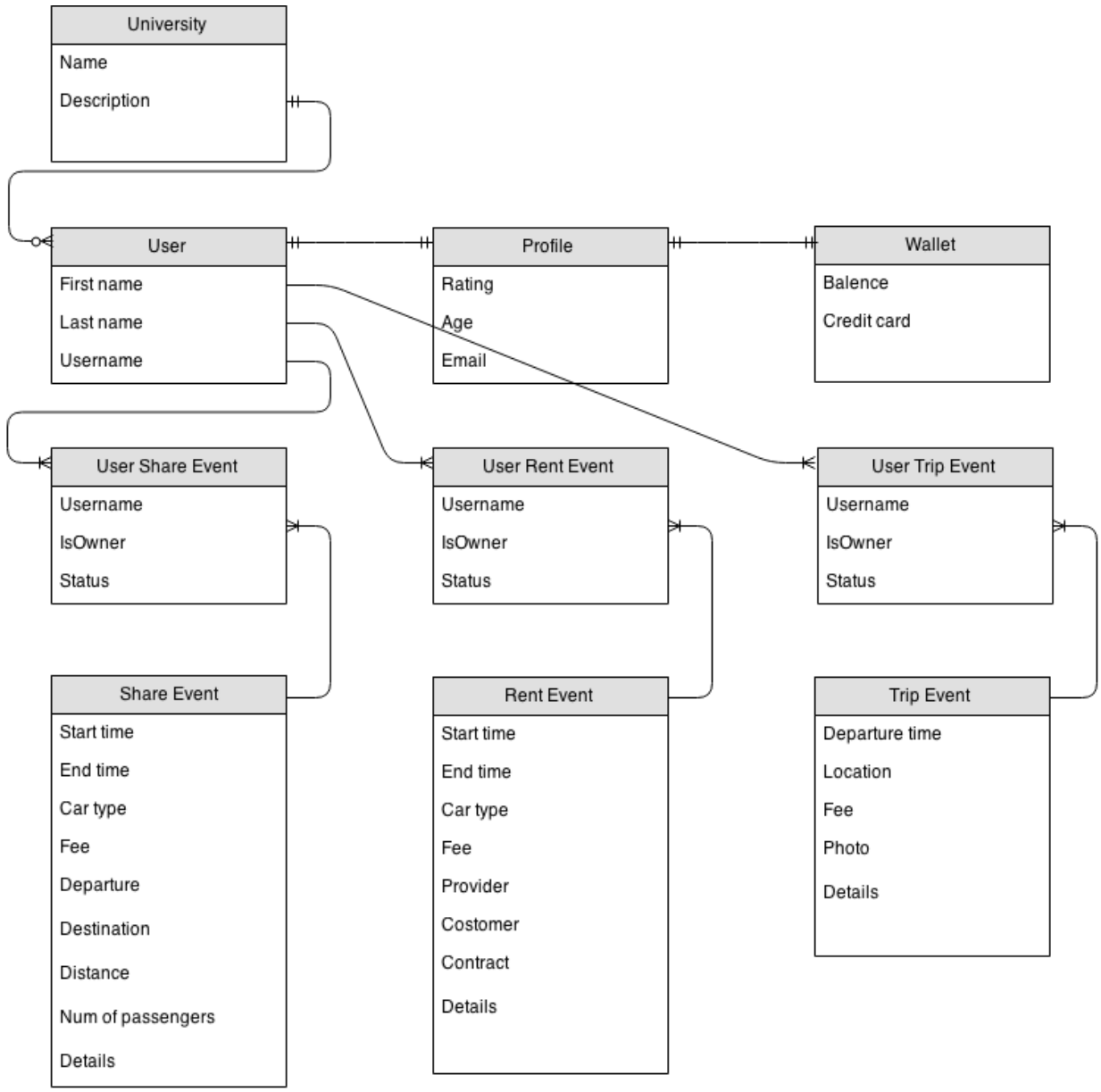
Time: March 19 10:27 am to 11:01 am



Pay to BigJohn: $ 10

Credit Card PayPal

Relation


University
Name
Description
User
First name
Last name
Username
Profile
Rating
Age
Email
Wallet
Balence
Credit card
User Share Event
Username
IsOwner
Status
User Rent Event
Username
IsOwner
Status
User Trip Event
Username
IsOwner
Status
Share Event
Start time
End time
Car type
Fee
Departure
Destination
Distance
Num of passengers
Details
Rent Event
Start time
End time
Car type
Fee
Provider
Costomer
Contract
Details
Trip Event
Departure time
Location
Fee
Photo
Details

Database model

```
class University(models.model):
        name = models.CharField(max_length=100, primary_key=True)
        description = models.CharField(max_length=1000)

class User(models.model):
        university = models.ForeignKey(University)
        first_name = models.CharField(max_length=20)
        last_name = models.CharField(max_length=20)
        username = models.CharField(max_length=20)

class Profile(models.model):
        user = models.OneToOneField(User)
        rating = models.CharField(max_length=20)
        age = models.IntegerField(max_length=3)
        email = models.CharField(max_length=50)

class Wallet(models.model):
        user = models.OneToOneField(User)
        balance = models.IntegerField(max_length=3)
        credit_card =  models.CharField(max_length=20)

class UserShareEvent(models.Model):
        user = models.ForeignKey(User, related_name = 'user')
        share_event = models.ForeignKey(ShareEvent, related_name = 'share_event')
        username = models.CharField(max_length=20)
        is_owner = models.CharField(max_length=20)
        status = models.CharField(max_length=20)

class UserRentEvent(models.Model):
        user = models.ForeignKey(User, related_name = 'user')
        rent_event = models.ForeignKey(RentEvent, related_name = 'rent_event')
        username = models.CharField(max_length=20)
        is_owner = models.CharField(max_length=20)
        status = models.CharField(max_length=20)

class UserTripEvent(models.Model):
        user = models.ForeignKey(User, related_name = 'user')
        trip_event = models.ForeignKey(TripEvent, related_name = 'trip_event')
        username = models.CharField(max_length=20)
        is_owner = models.CharField(max_length=20)
        status = models.CharField(max_length=20)
```

```
class ShareEvent(models.Model):
        start_time = models.DateTimeField()
        end_time = models.DateTimeField()
        car_type = models.CharField(max_length=20)
        fee = models.IntegerField(null=True, blank=True)
        depareture = models.CharField(max_length=50)
        destination = models.CharField(max_length=50)
        distance = models.IntegerField(max_length=10)
        detials = models.CharField(max_length=1000)

class RentEvent(models.Model):
        start_time = models.DateTimeField()
        end_time = models.DateTimeField()
        car_type = models.CharField(max_length=20)
        fee = models.IntegerField(null=True, blank=True)
        provider = models.CharField(max_length=20)
        costomer = models.CharField(max_length=20)
        contract = models.CharField(max_length=1000)
        detials = models.CharField(max_length=1000)

class TripEvent(models.Model):
        location = models.CharField(max_length=100)
        fee = models.IntegerField(null=True, blank=True)
        photo = models.CharField()
        detials = models.CharField(max_length=1000)
```