

# MyTaxiService

## Requirements and Specs

*Giorgio Pea - Andrea Sessa*

# What is MyTaxiService?

*MyTaxiService is an application that simplifies  
and speeds up the process of taking a taxi in  
the city*



A taxi within a tap

Less waiting time for the  
users

Less traffic for the  
city

# Some important terms

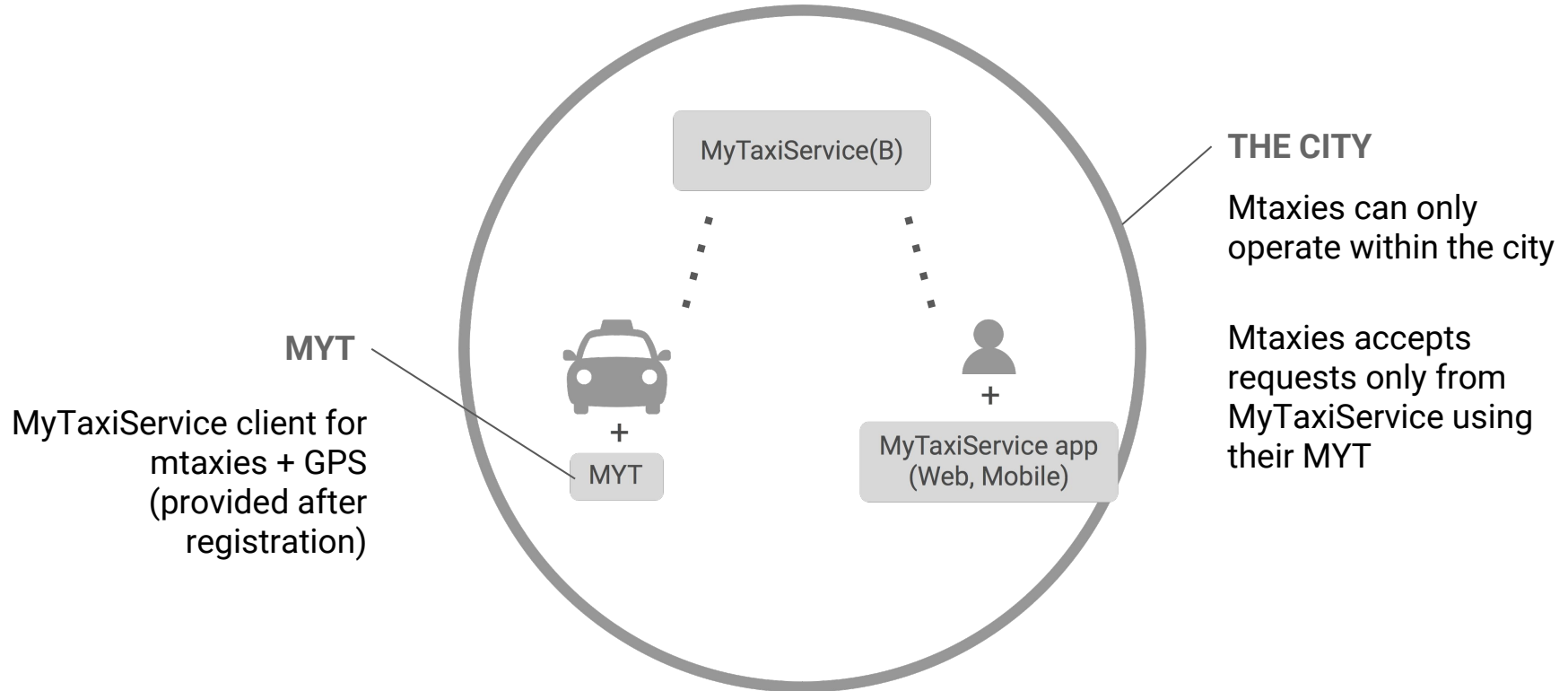
MTaxi : *a taxi that uses MyTaxiService*

MyTaxiService(B) : *the back-end of MyTaxiService*

Ride Request : *a user makes a ride request if he wants to be picked up by a mtaxi as soon as possible*

Booking Request : *a user makes a booking request if he wants to be picked up by a mtaxi at a given date and time*

# Some important Assumptions



# Actors and what they can do - 1

USER

Register as a user

REGISTERED USER

Login from the web or  
mobile app

TAXI DRIVER

Register as a driver

ADMINISTRATOR

Manage bad behavior  
reports

# Actors and what they can do - 2

## LOGGED REGISTERED USER

Request a ride

Request a booking

See the status of  
ride/booking requests

Undo a booking request

Logout

## MTAXI DRIVER

Accept a ride/booking request

Complete a ride

View the details of request

View zone change orders

Report an accident

# Some functional requirements



# Some important functional requirements - 1

A registered user can undo a booking UP TO 10 minutes before the inserted time

MyTaxi service must be aware of the distribution of mtaxies in the city's zone

MyTaxiService can change the distribution of mtaxies with Zone change order



## Some important functional requirements - 2

For each city's zone MyTaxiService has to manage a queue of available taxi

MyTaxiService has to be aware of the city's traffic zone per zone(low traffic, medium traffic, high traffic)

MyTaxiService checks the traffic condition of a mtaxi's zone before forward to that mtaxy any request

# Some important functional requirements - 3

MyTaxiService has to be able to use the gps system in the mtaxies to track their position so that it can:

Compute an aprox. waiting time for a passenger

Check the behavior of the mtaxi driver

Keep the organisation of taxis in queues

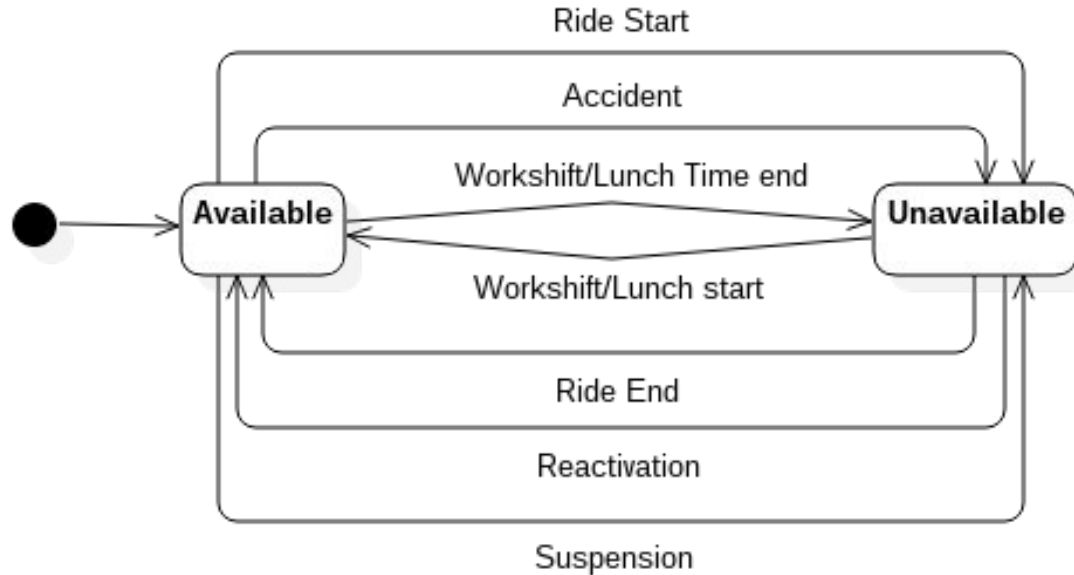
# Some important functional requirements - 4

A mtaxi can report an accident

MyTaxiService is aware of the worktime table of each mtaxi

# Some important functional requirements - 5

## Availability policy



Some domain properties, constraints, non func.  
requirements



# Domain properties and constraints

## Domain Properties

- Traffic information are reliable
- GPS data are reliable
- If a registered user requests a ride request then he will be present at the startingpoint when the mtaxi arrives

## Constraints

- MyTaxiService requires Android 2.0 (or later) or IOS 6.0 (or later)
- MyTaxiService requires a browser that supports Javascript, CSS, HTML
- MyTaxiService requires an internet connection(3G or Wifi)

# Non functional requirements

Availability : 24h/7d

Downtime(MTTR) : 1h per year

Maximum number of ride/booking request: 1000/h

Maximum training time for the use of the app: 10 min

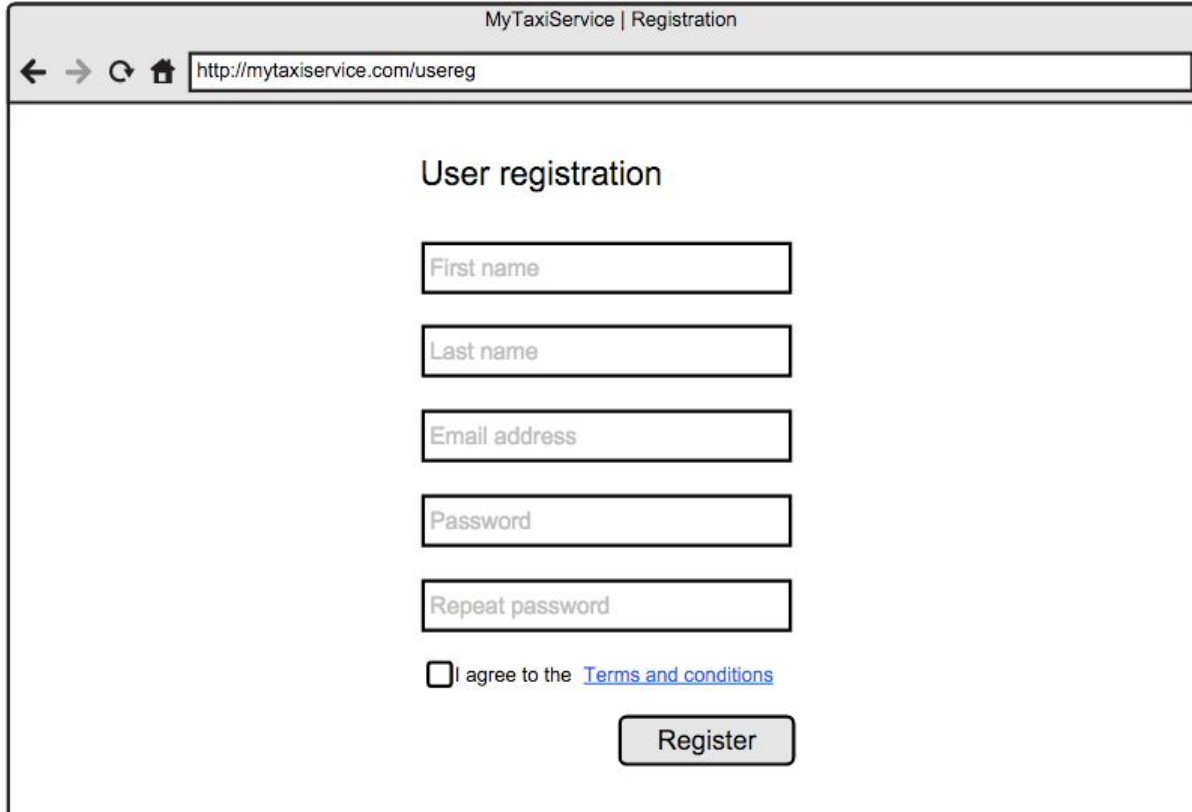
Maximum clicks to reach of all functionalities: 3 clicks

# Some interfaces requirements





# User registration



A screenshot of a web browser window showing a user registration form. The browser's address bar displays 'http://mytaxiservice.com/usereg'. The form is titled 'User registration' and contains five input fields: 'First name', 'Last name', 'Email address', 'Password', and 'Repeat password'. Below these fields is a checkbox labeled 'I agree to the' followed by a blue hyperlink 'Terms and conditions'. At the bottom right of the form is a 'Register' button.

MyTaxiService | Registration

← → ↻ 🏠

## User registration


☐ I agree to the [Terms and conditions](#)

# Ride/Booking view

MyTaxiService | Rides

← → ↺ 🏠

http://mytaxiservice.com/rides

 User

Logout

Your ride

RIDE 214HKS  
FROM: Location 1 TO: Location2

TAXI


7324234

WAITING TIME

aprox. 10mins

Your bookings

BOOKING 3234JK  
FROM: Location 1 TO: Location2  
SCHEDULED FOR: 09/10/12 at 12:30



TAXI

-

WAITING TIME





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Request a taxi

Book a taxi


# Book a taxi


MyTaxiService



   


 User



## Book a taxi

Starting location 

Ending location 

1 Passenger  

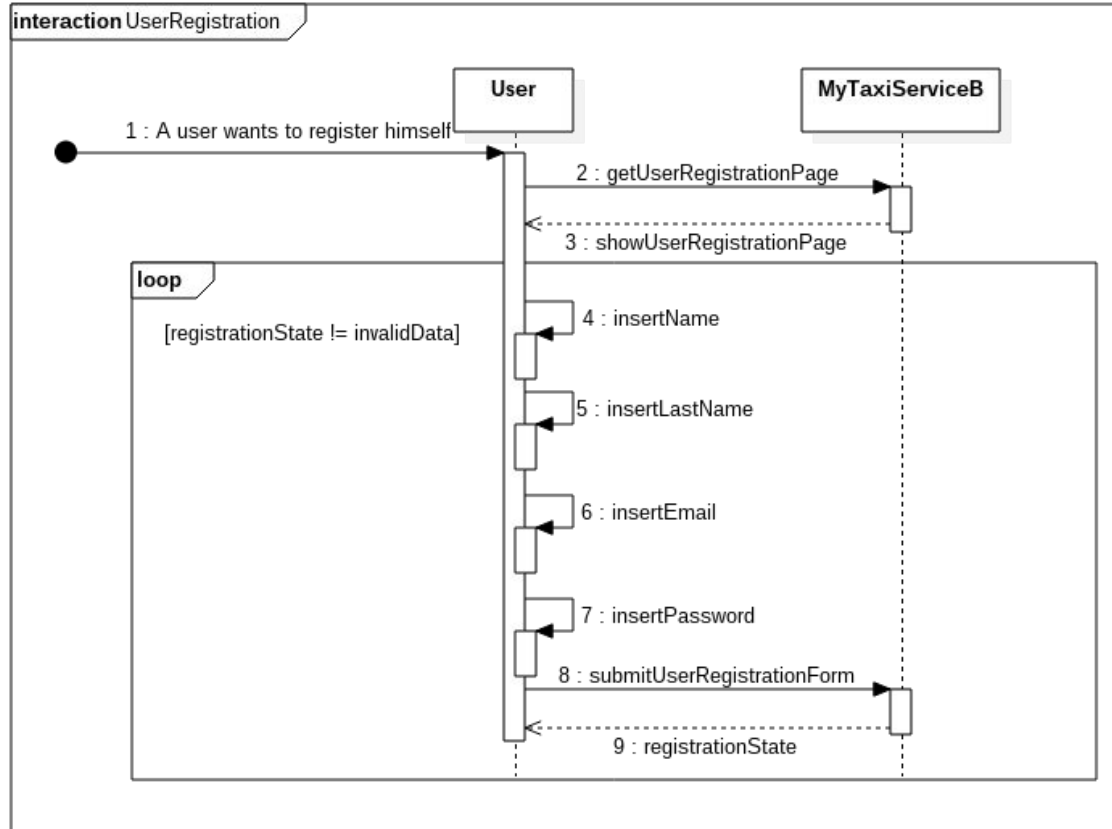
Date  

Hour   Min  

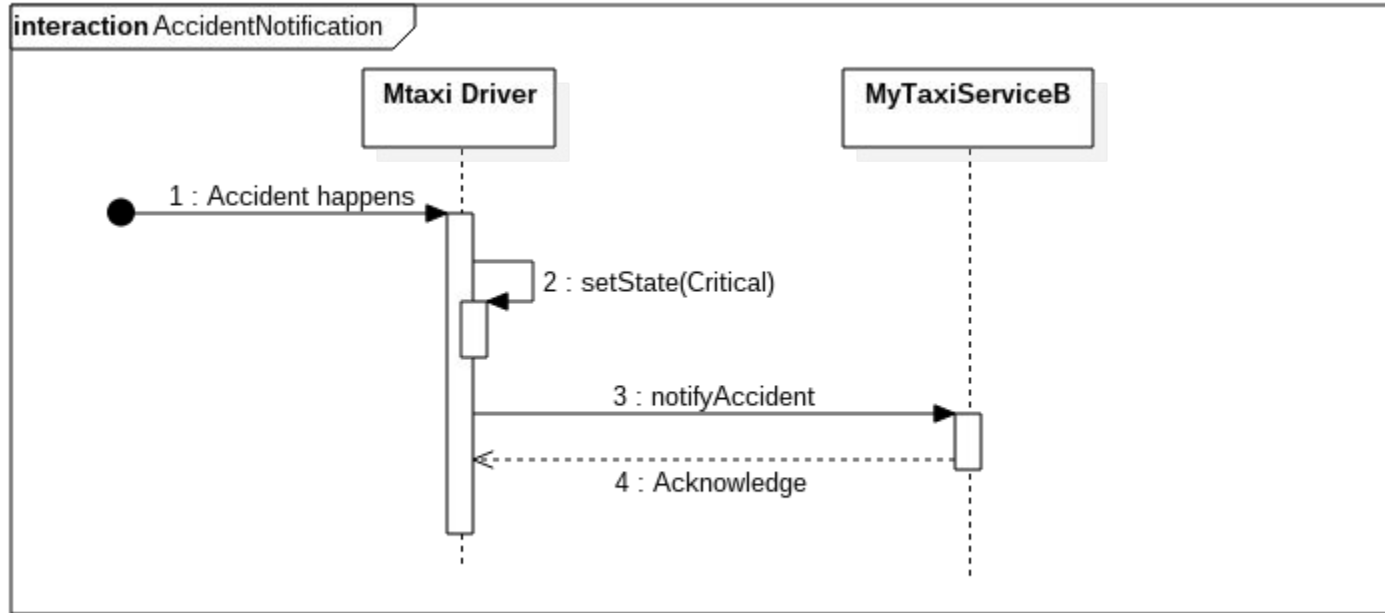
## Some important use cases



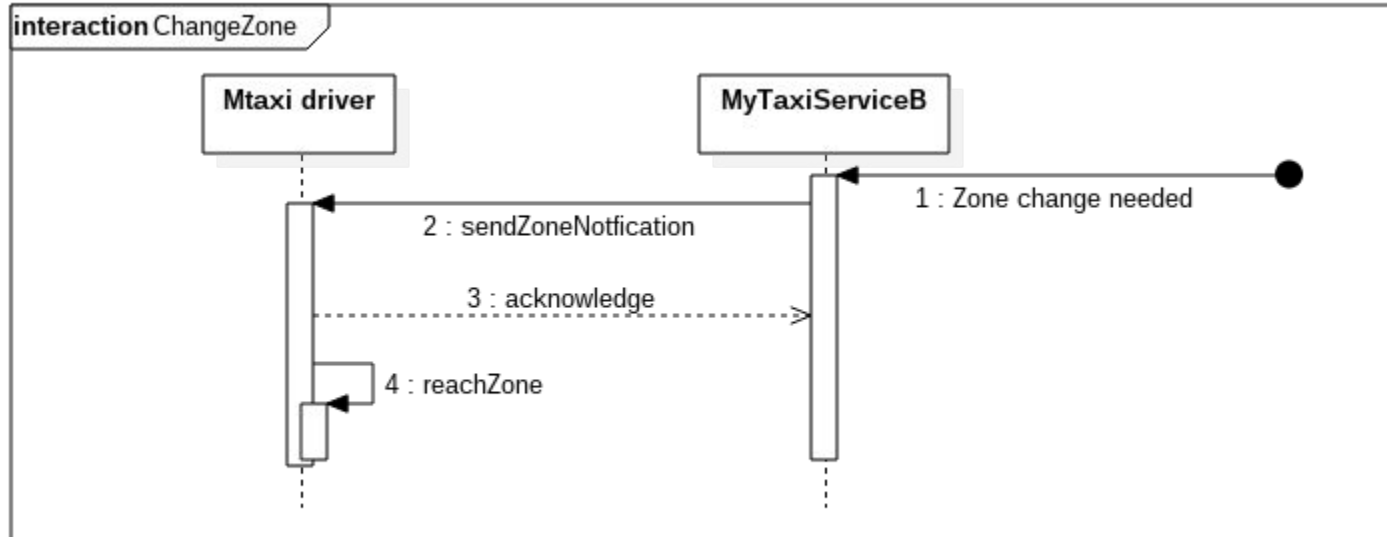
# User Registration



# Accident Notification



# Change Zone



Thank you!



# Questions?