



POLITECNICO MILANO 1863

# PROJECT PRESENTATION

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myTaxiService

**myTaxiService** = myTaxiApp + myTaxiWeb +  
myTaxiAssist

# Requirements specification

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# Functional requirements I

1. The service shall accept only valid input:
  - 1.1 The service shall assure that each provided address exists.
  - 1.2 The service can accept only requests with full personal data of the customer (name, surname and phone number).
2. The service shall guarantee the non-ubiquity of the actors:
  - 2.1 A taxi driver must be registered once.
  - 2.2 A registered customer can be registered only once.
  - 2.3 A taxi shall be registered only once.
  - 2.4 A taxi must have one and only one taxi driver, a taxi driver must have one and only one taxi.
3. The system has to ensure the security in the login process:
  - 3.1 Only registered customer can login in myTaxiApp.

## Functional requirements II

- 3.2 Only verified taxi driver can login in myTaxiAssist.
- 4. The service shall provide a method to verify the driver:
  - 4.1 Only authorised personnel can add or remove a taxi driver and/or a taxi.
- 5. The service shall accept only valid reservations:
  - 5.1 The service shall allow only registered customers to reserve a taxi.
  - 5.2 The system shall accept reservations only if they are made between 24 hours and 2 hours before the request time.
- 6. The service shall guarantee a correct taxi allocation:
  - 6.1 One taxi cab every four passengers must be allocated by the system.

## Functional requirements III

- 6.2 The service must ensure that a taxi is allocated to only one request at the same time.
- 6.3 A non available taxi cab shall not be allocated to a request.
- 6.4 The service has to provide a taxi to a customer within 10 mins.
- 6.5 The service has to guarantee a fair management of the taxi queue.
- 6.6 When a taxi driver refuses a request, the system must push the taxi at the end of the queue.
- 6.7 While a taxi has a customer on board, it cannot be allocated.
- 6.8 If a request has been accepted by the system, the customer must be taken to its destination:
  - 6.8.1 If the taxi driver refuses the request, the request is forwarded to the first taxi in the queue.

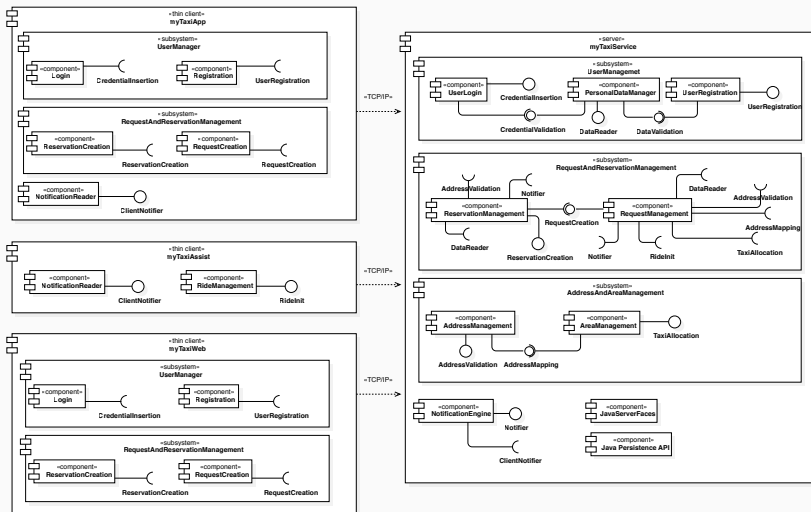
- 6.8.2 If no taxis are available in the area, the first taxi in the queue of adjacent areas must be selected.
- 6.8.3 If the taxi breaks down, another taxi has to be allocated.

# Design

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# Component diagram



## Integration testing plan

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## Project planning

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