**Stakeholders**

* transport service provider
* ERCA
* Transport Authority/ local transportation admin
* passenger

**Functional requirements:**

* passengers will be able to pay with a swipe
  + pay for multiple people
* tariff and tax control
* account top up
  + SMS
  + USSD
  + Web
  + Mobile
* fleet control and management
  + display on map
* safety and security insurance
  + theft on lada taxis
  + card security on theft or loss
* localization
  + easily can be localized
* can operate on it's own VPN/ APN without internet access

**Non functional requirements**

* Reliability
* Accessibility
* Scalability

**To do**

* tax process of public transportation systems

**Sub Systems**

* payment subsystem
  + passenger payment
    - IOT device
    - backend
    - card
  + passenger top up
    - backend
    - mobile app
* fleet management subsystem
  + live location tracking
    - IOT GPS module
    - backend
  + route allocation (optional)
* Security
  + passenger
  + card
* networking

**Existing systems**

payment  
manual  
fleet management  
manual  
security  
police (highly delayed)

**users of current system**

passengers  
fleet control personal  
transport service providers  
ERCA  
Transport Authority  
police

**Drawback of current system**

* it's all manual
* inefficient and unfair
  + time usage
  + route allocation
  + transport distribution
  + payment and tax collection
* highly insecure services