Requirements specification:

## PDA:

* Shall be able to communicate with train and bus computers to identify the user.
* Shall be able to show the traveler status to show a conductor that a user is checked in.
* Shall be able to show the current travel cost.

## Train/Bus computer:

* Shall be able to communicate with the users' PDA devices to identify the users.
* Shall be able to communicate with the server to access DBSM
* Shall be able to store and send logged in / logged out users in a chunk after departure from each station/stop (RISK: no such user, how to solve this issue? - maybe use phone number for billing unknown users, possible stolen / borrowed phone can conductor ID the user?, multiple users?)
* Shall be able to convert to face recognition system with no change in existing code.

## Web based interface:

* Shall be able to register and log users in based on credentials.
* Shall be able to display the users travel data / transaction history
* Shall have a management mode for client/cost management

## Communication:

* Communication shall use a custom protocol on the network application layer.
* Distributed systems shall implement interfaces to send and receive packets.

## Database:

* Shall have a user DB and a transaction DB
* Shall be able to contain the fields:
* User ID (primary key)
  + Last Name
  + First Names
  + MAC Address??