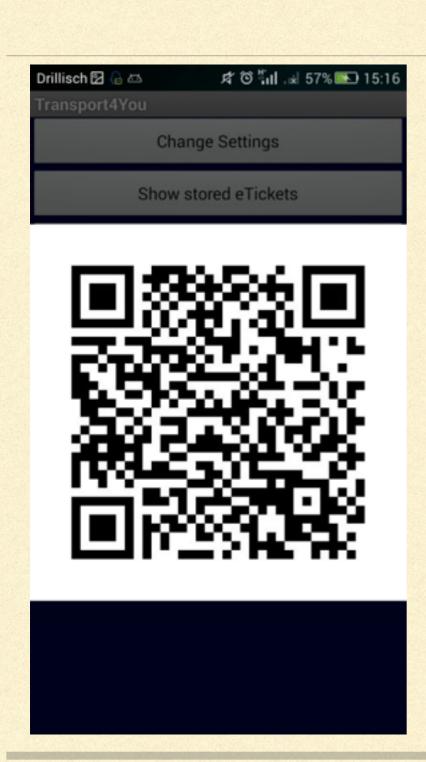
TRANSPORT4YOU PROJECT PHASE II

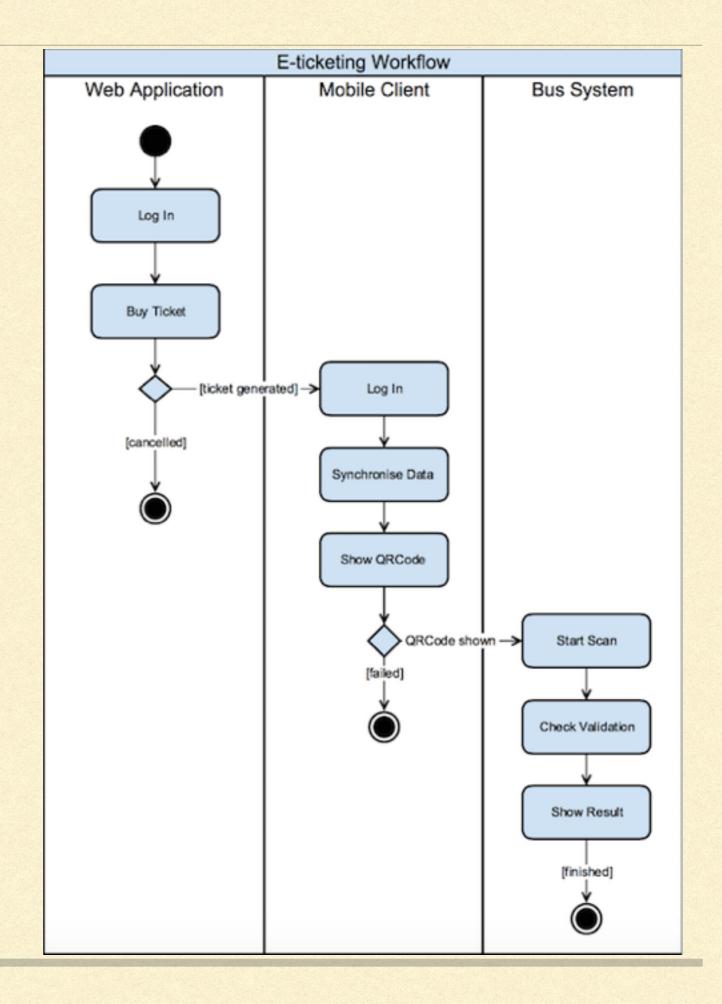
Qunjie Zhou 03670699 & Zhen Yan 03670099

OVERVIEW



- What we have done ...
- Removing useless functions: bluetooth& wifi connection
- Replacing them with QRCode and camera
- Making the system more usable

WORKFLOW DIAGRAM



MAIN CONCEPT

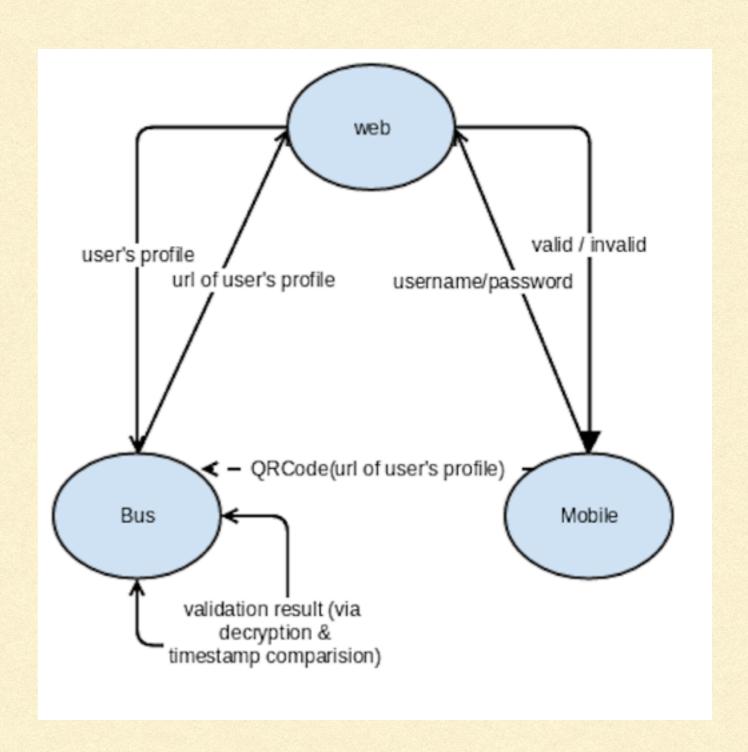
- How it is supposed to be.....
 - HMac: validation string = Hash (message + Hash (privateKey + message))
 - QRCode : message + validation string
 - Validation: the expected Hash is generated on Bus and compared with received Hash
- How we solved it
 - URL of the user's profile is stored in QRCode
 - The bus visits the URL and validates the signed ticket by the local public key

DATA FLOW

Web<—>Mobile: logging in authentication

Mobile<—>Bus: QRCode

Web<—>Bus fetching user's profile

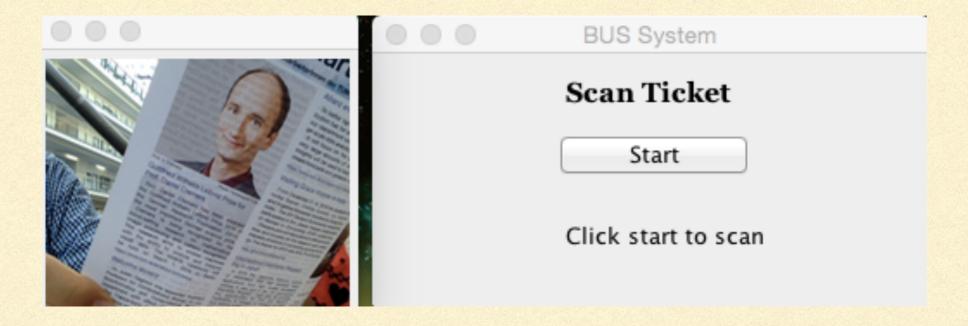


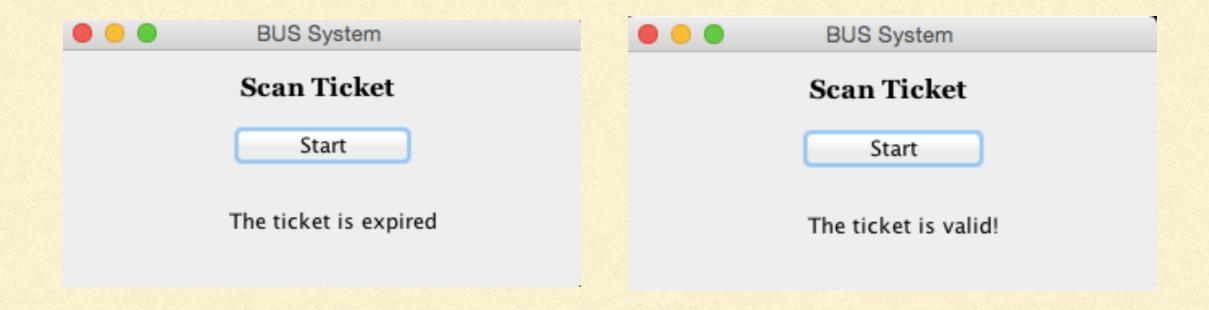
NEW FEATURES

- Application entrance via GUI to run Bus
- In the past, to use the bus application we have to keep all the background listening threads running all the time...
- Now, we only need to run the GUI and the services can be triggered by clicking the button...

- A lot of resources are saved
- More user-friendly

BUS GUI





THANKYOU FOR YOUR ATTENTION ^^