Documentation - Supply Chain Game

1. Connecting Raspberry Pi to Wi-Fi: Bayern@WLAN

- Browser hotspot.vodafone.de/Bayern
- If it does not work:
 - Open terminal: sudo date --set 'JJJJ-MM-TT HH:MM:SS' (type in the current date and time)
 - o Try connection again

2. Updating Raspberry Pi

 Terminal sudo apt-get update sudo apt-get upgrade

3. Download Git-Repository (if it not exists on the desktop)

• Terminal: cd Desktop (or Schreibtisch)

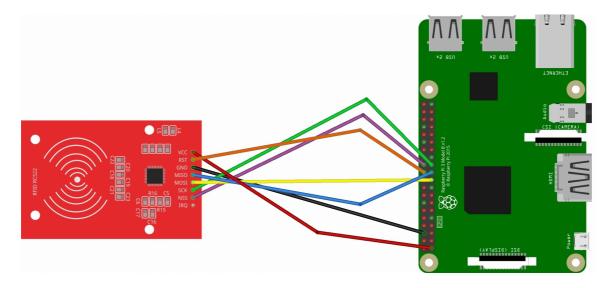
• Terminal: git clone https://github.com/loTLabHNU/SCGame

4. Installing RFID-Modul

• GPIO Assignment:

RFID-Reader	Raspberry Pi
VCC	GPIO 1 (3V Power)
RST	PIN 22 (BCM 25)
GND	PIN 6 (Ground)
MISO	PIN 21 (BCM 9)
MOSI	PIN 19 (BCM 10)
SCK	PIN 23 (BCM 11)
NSS	PIN 24 (BCM 8)
IRC	/

5. Circuit diagram



6. SPI

- Activate SPI: sudo raspi-config interfacing options – SPI – enable sudo reboot
- Updating Config-file sudo nano /boot/config.txt dtparam=spi=on (add at the end of the file)
- Installing RFID-Reader sudo apt-get install python3-dev python3-pip sudo pip3 install spidev sudo pip3 install mfrc522
- Test RFID-Reader: Open: Read.py or Write.py

7. Installing MySQL-Server on rp-admin

Terminal
 sudo apt-get install mysql-server
 sudo mysql -u root -p
 enter password: root
 create user ,pi'@,%' identified by ,pi';
 grant all privileges on *.* to ,pi'@,%' with grant option;
 flush privileges;
 exit

8. Bind-Adress

• Terminal:

sudo nano /etc/mysql/mariadb.conf.d/50-server.cnf Change Bind-adress to 0.0.0.0 strg + o strg + x

9. Change name of all Raspberry Pls

```
• Terminal:
 sudo nano /etc/hostname
 change name to:
       rp-admin
       rp-team1
       rp-team2
       rp-team3
       rp-team4
 strg + o, enter
 strg + x
• Terminal
 sudo nano /etc/hosts
 change name to:
       rp-admin
       rp-team1
       rp-team2
       rp-team3
       rp-team4
 stag + o
 strg + x
• Reboot
```

10. Installing MySQL Database Driver

sudo reboot

 Terminal sudo apt-get install python-mysqldb sudo python -m pip install mysql-connector