Registration Device

System requirements

1) Provie admin login method.
2) Authenticate and validate login / cards' data with local server.
3) Register new user data to the local server.
4) Assign ID to a card.
5) Display current user data.

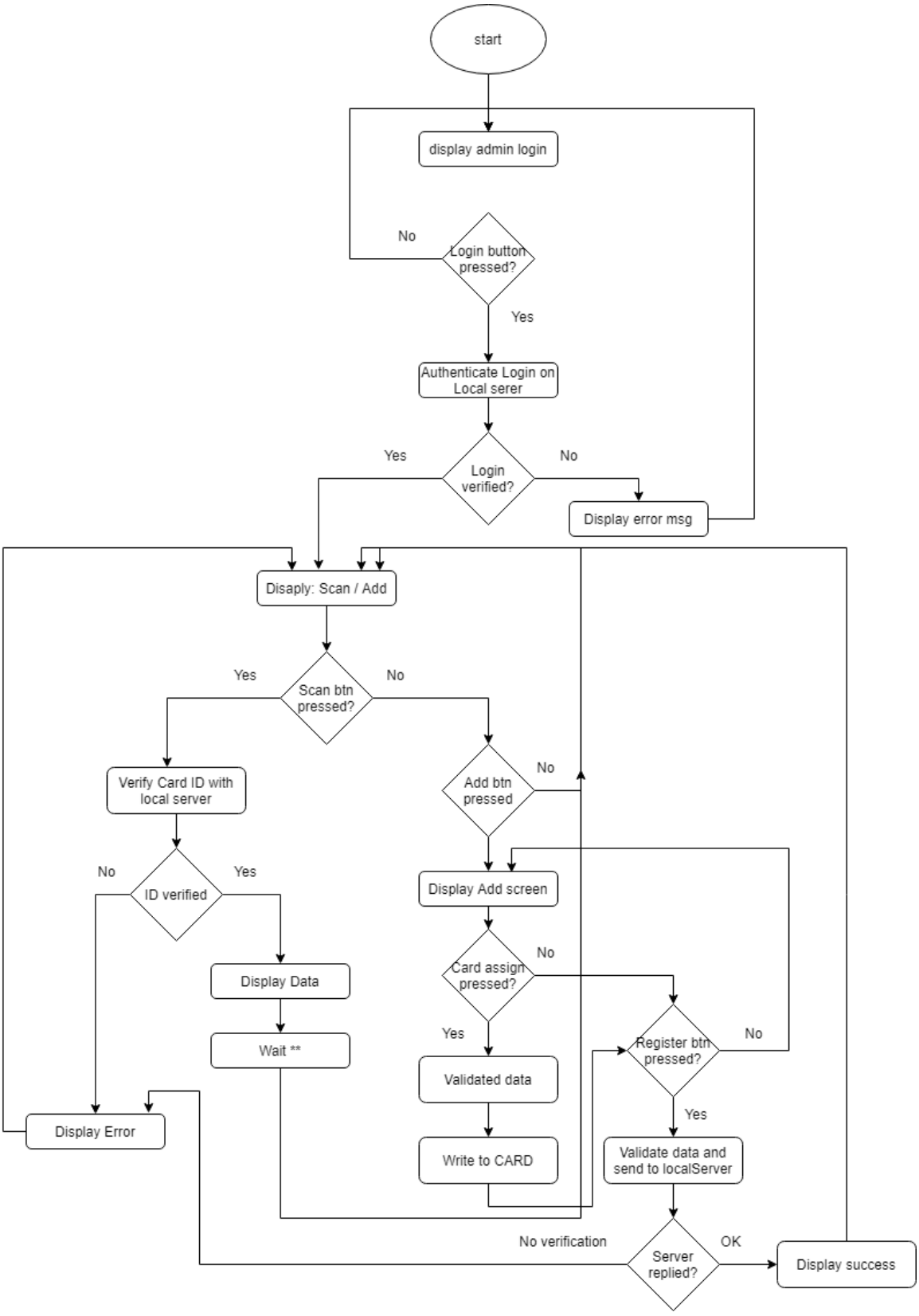
Physical Layout

STM32F103C8	RFID reader
A5	CLK
A6	MISO
A7	MOSI
A4	SDA
A3	RST

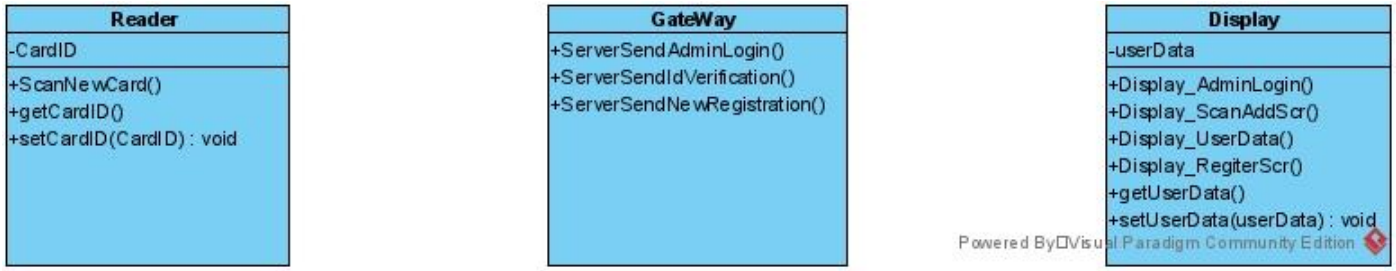
STM32F103C8	ESP8266 (NODE MCU)
A9 (Tx)	D7 (Rx)
A10 (Rx)	D8 (Tx)

STM32F103C8	TFT
A2 (Tx)	(Rx)
A3 (Rx)	(Tx)

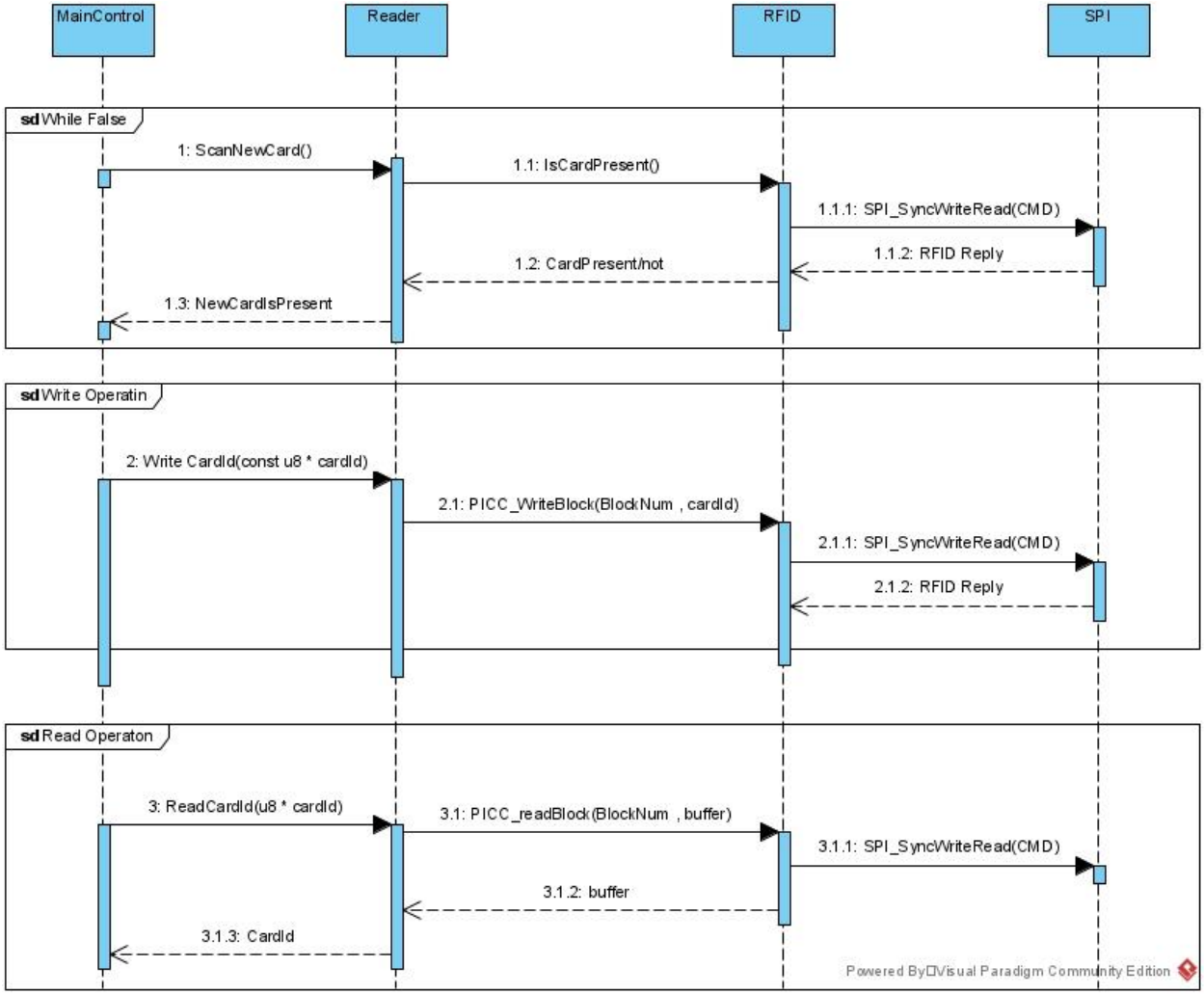
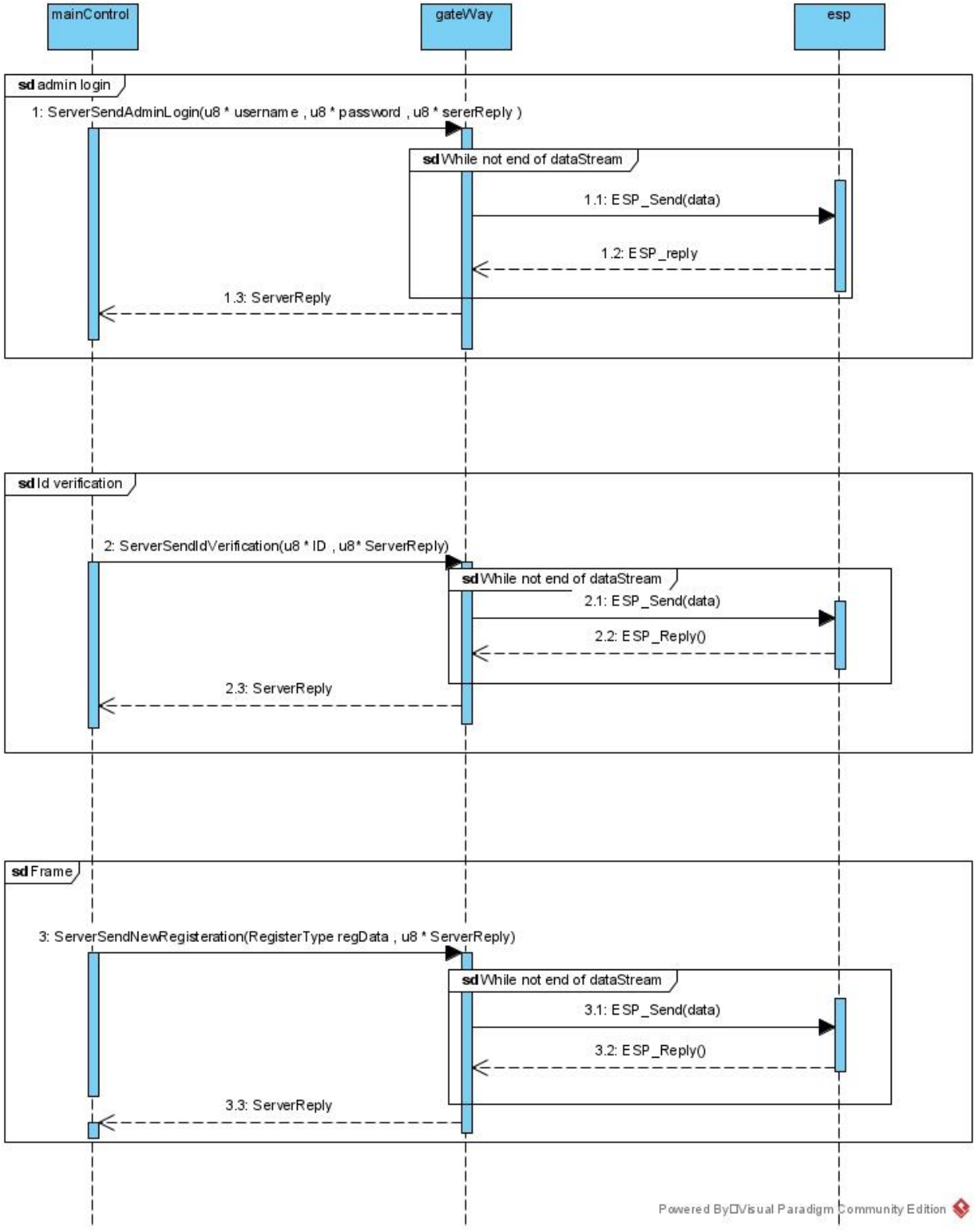
Flow Chart


start
display admin login
No
Login button pressed?
Yes
Authenticate Login on Local serer
Yes
Login verified?
No
Display error msg
Disaply: Scan / Add
Yes
Scan btn pressed?
No
Verify Card ID with local server
Add btn pressed
No
No
ID verified
Yes
Display Add screen
Display Data
Card assign pressed?
No
Wait **
Yes
Register btn pressed?
No
Validated data
Display Error
Yes
Write to CARD
Validate data and send to localServer
No verification
Server replied?
OK
Display success

Software components



Reader Sequence



Gateway Sequence