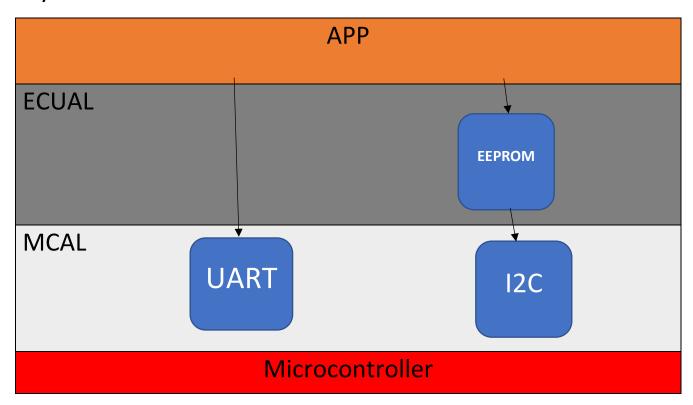
Layers:



APP:

```
void APPInit(void);
void APP_GetState(void);
void APP_UpdateState(void);
```

EEPROM:

```
void ECUAL_EEPROMInit(void);
void ECUAL_EEPROMWrite(uint8_t EEPROM_PageNum, uint8_t u8_MEMAddress,
uint8_t u8_Data);
void ECUAL_EEPROMRead(uint8_t EEPROM_PageNum, uint8_t u8_MEMAddress,
uint8_t *u8_DataRead);
```

UART:

```
UART_ERROR_t USART_Init(void);

UART_ERROR_t USART_Transmit(uint16_t u16_data);

UART_ERROR_t USART_Receive (uint16_t *Ptr_to_val);

UART_ERROR_t USART_Transmit_Packet(uint8_t *pu8_data,uint8_t SIZE);

UART_ERROR_t USART_receive_Packet(uint8_t *pu8_data,uint8_t u8_SIZE);

UART_ERROR_t USART_Transmit_INTDriven(uint8_t *pu8_data,void (*ptr)(void));

UART_ERROR_t USART_Receive_INTDriven(uint8_t *pu8_data,void (*ptr)(void));
```

12C:

```
void MCAL_I2CMasterInit(Master_config_t *MasterConfig);
void MCAL_I2CSlaveInit(uint8_t u8_SlaveAddress);
I2C_status_codes MCAL_I2CMaterEstablishComm(uint8_t u8_slaveAddress);
I2C_status_codes MCAL_I2CMasterRepeatedStart(uint8_t u8_slaveAddress);
I2C_status_codes MCAL_I2CMasterWrightData(uint8_t* u8_Data);
I2C_status_codes MCAL_I2CMasterReadsendACK(uint8_t *readData);
I2C_status_codes MCAL_I2CMasterReadsendNACK(uint8_t *readData);
void MCAL_I2CMasterStopCondition(void);
I2C_slave_status_codes MCAL_I2CSlaveListen(void);
I2C_slave_status_codes MCAL_I2CSlaveTransmit(uint8_t *u8_DataSend);
I2C_slave_status_codes MCAL_I2CSlaveReceive(uint8_t *ReceivedData);
```

Flow chart:

