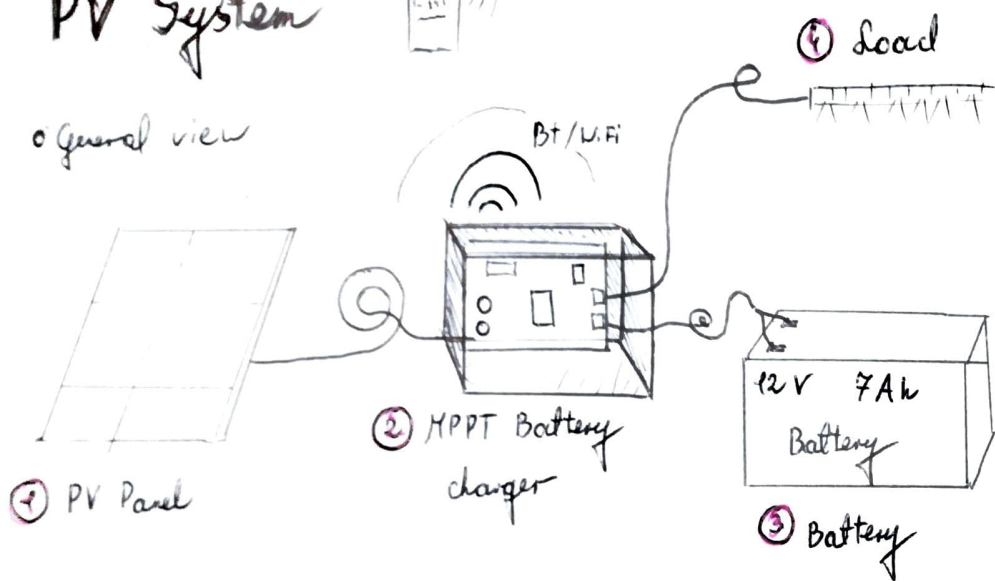
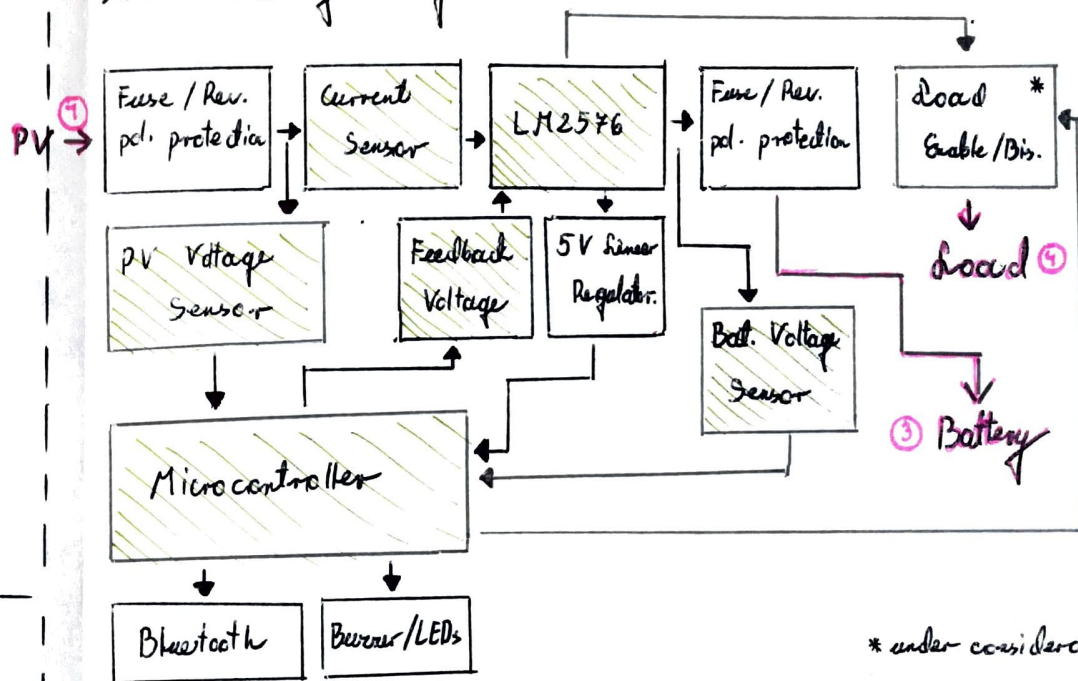


PV System

General view



MPPT Battery Charger



MPPT Battery Charger - Software

Main functionalities of the charger:

- 1) Step-down converter:
 - Adjustable buck converter
 - Feedback (PID controller)
 - 2) 3-stage charge controller for lead-acid batteries
 - 3) MPPT algorithm for MPP tracking
 - 4) Bluetooth connection for monitoring current values (V_{pv} , I_{pv} , P_{pv})
 - 5) Fuses/reverse polarisation protection for PV panel & Battery
 - 6) Buzzer and LEDs indicators
 - 7) Load Enable/Disable
- Core functions
- e.g.) Bluetooth module ON/OFF switch