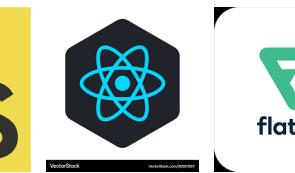
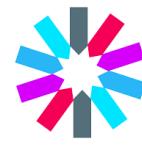


TECHNOLOGY STACK

FRONTEND	    
BACKEND	  
API	  
DEVELOPMENT TOOLS	   
PLATFORMS	  
APP INTEGRATING TOOLS	 
HOSTING TOOLS	 
SECURITY TOOLS	
STORAGE TOOLS	

User Interface & Extensions

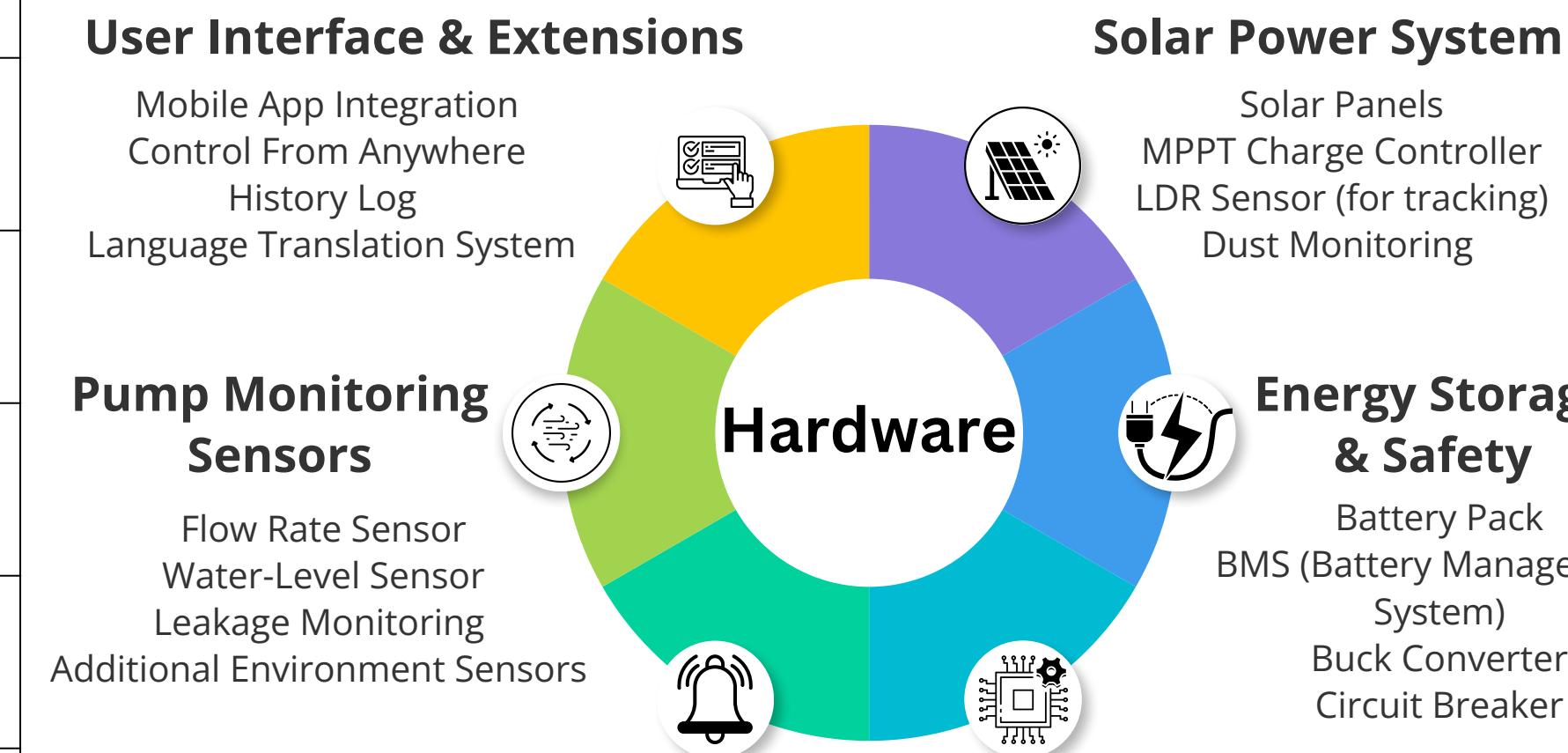
Mobile App Integration
Control From Anywhere
History Log
Language Translation System

Pump Monitoring Sensors

Flow Rate Sensor
Water-Level Sensor
Leakage Monitoring
Additional Environment Sensors

Communication & Intelligent Alerts

Speaker
MP3 Audio Module
Notification Output Module
IoT Connectivity



Solar Power System

Solar Panels
MPPT Charge Controller
LDR Sensor (for tracking)
Dust Monitoring

Energy Storage & Safety

Battery Pack
BMS (Battery Management System)
Buck Converter
Circuit Breaker

Core Processing & Control

ESP32 (V1)
ESP32 (S3)
Motor Driver Module
Current & Voltage Sensors