



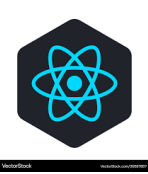























TECHNOLOGY STACK

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

Solar Power System

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

Pump Monitoring Sensors

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

Energy Storage & Safety

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

Communication & Intelligent Alerts

Speaker
MP3 Audio Module
Notification Output Module
IoT Connectivity

Core Processing & Control

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

