



University of Computer Studies, Yangon

IoT based Home Energy Management system for Rural Area in Myanmar

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Background of Project

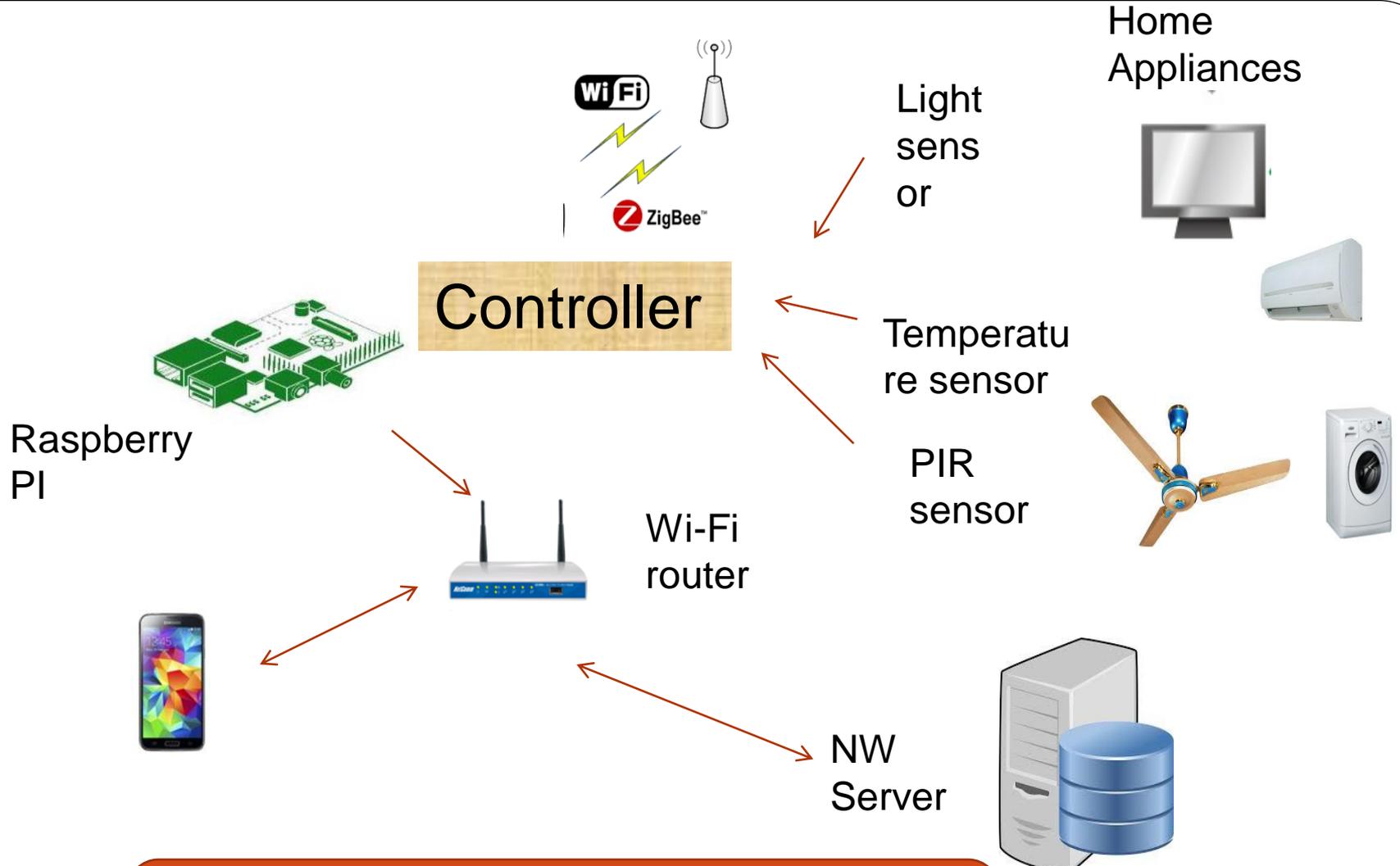
The total population of the country mostly in rural areas have no access to electricity. Most of them has no grid connection and people depends on wood, gas and kerosene oil for their cooking and lighting purposes



A design of home energy management system using renewable energy source is associated with user interface, home server, microcontroller interface providing solar lantern, solar cooker, solar home lighting system and other appliances of their daily life.

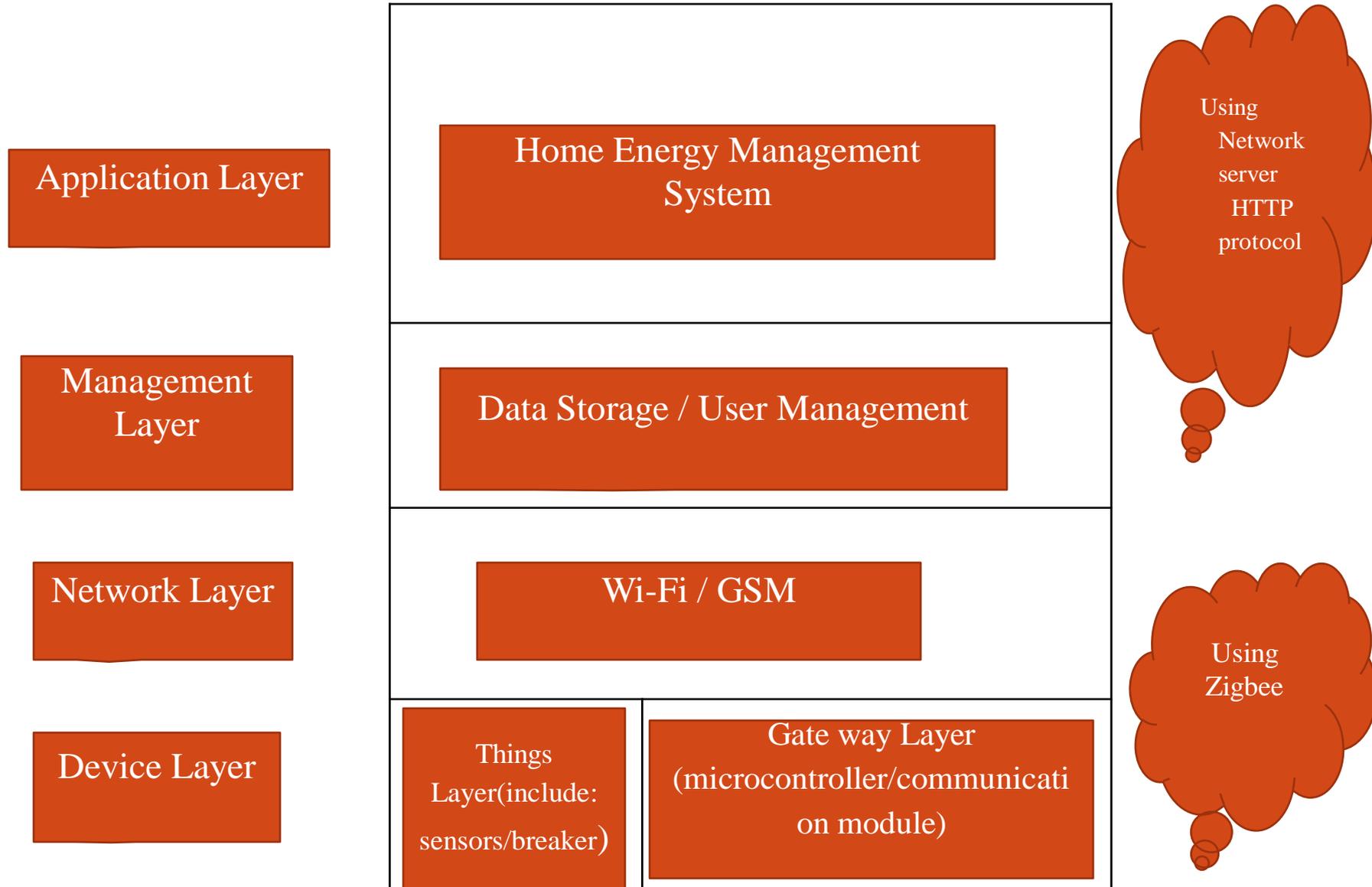
What are the benefits of a Home Energy Management System ?

- Home Energy Management System save your time.
- Real-time monitoring of the household's consumption by the Utility.
- To reduce the peak demand, the maximum demand of the household's peak load is limited within the given threshold .



Over View of System Architecture

IoT Layers



Output Result

- Automatic turn off the lights when not in use
- Do not switch on the power when TV and Audio Systems are not in use.
- Air conditioners having automatic temperature cut off today's home require sophistication control .