

Aim of this thesis is to develop a home thermoregulation system. There is an embedded device from the STM32 platform that measures actual temperature and regulates the heating based on user's preferences. This device communicates with a central web server through which user can monitor all his devices and change heating preferences on them. Implementation of the communication protocol between the embedded device and the web server periodically sends measured temperature from the embedded device and synchronizes heating preferences on both sides.