ESP-IDF Components Library

Library of Sensors and Other Components

ESP-IDF Components Library

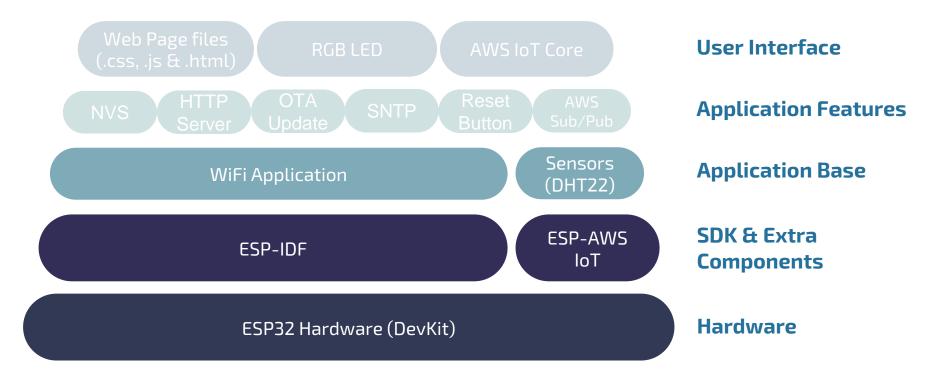
- Sensor Library Integration is Completely Optional
 - Lesson Plan
 - ESP-IDF Components Library Overview, Documentation and Examples
 - Project Structure
 - Integration Steps Preview
 - Demonstration

ESP-IDF Components Library Overview

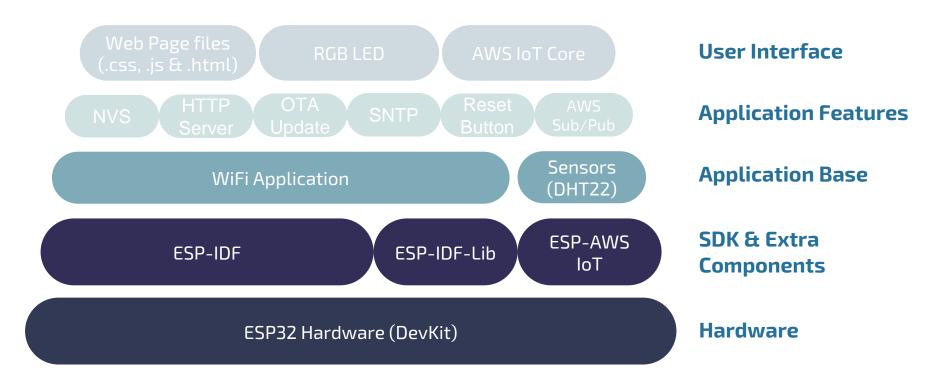
- Component Library containing an abundance of drivers for sensors and more
 - Component Library → https://github.com/UncleRus/esp-idf-lib

- Documentation → https://esp-idf-lib.readthedocs.io/en/latest/complete documentation on various sensors and components
- Examples → https://github.com/UncleRus/esp-idf-lib/tree/master/examples

Application Project Structure



Application Project Structure Update



Integration Steps Preview

- Integrate Library
 - . create a new empty project, and open git bash in it.
 - Clone ESP-IDF components/sensors library. from this repo:- https://github.com/UncleRus/esp-idf-lib
 - Adjust the top-level CMakeLists.txt file to include the sensor library component. set(EXTRA_COMPONENT_DIRS "esp-idf-lib/components")
- Integrate Example(s)
 - Either use one of mine or choose one from the library.
 - Adjust the CMakeLists.txt file in the main folder to include the example files.
 - Add the 'Kconfig.projbuild' file from example to the 'main' folder.
 - Adjust application files (main.c, tasks_common.h).

Examples Demonstration

- Demonstrate complete example(s) for easy adaptation for your own projects
 - BME680
 - ... More

