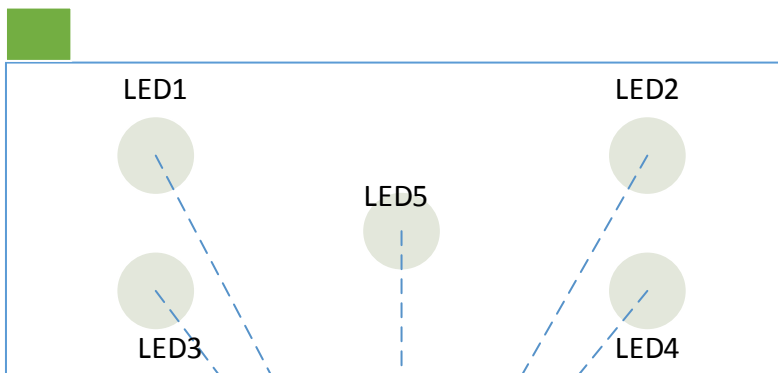
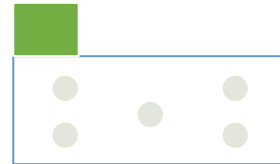


Controlling module

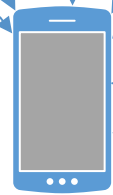


Positioning Beacon Source 1

Controlling module



Positioning Beacon Source 2



smartphone

Taking a picture

Return a position



processing server

Initial user location
with RGBLED positioning
system

Eliminate location errors
With RGBLED positioning
system

Track the user indoors with
accelerator and compass
sensors

Split each beacon on Image

Decoding beacon data

Locate beacon board
from digital map

Locate the user with AoA