

The background is a dark blue-grey color. It is decorated with various geometric shapes in orange and white. There are circles of different sizes, some with dotted patterns inside. There are hexagons, some solid orange and some outlined in white. There are also triangles and lines. Some shapes are partially cut off by the edges of the frame. The overall style is modern and minimalist.

Review 1

GPS Tracking

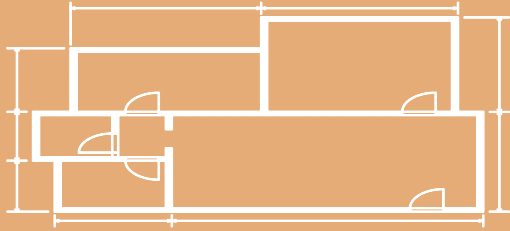
GPS GSM simulation and GPS Tracking Hardware

Whats the need

- Locating Positions
- Easy Access to Emergency Road Side Support
- Preventing Car Theft
- Mapping and Surveying
- Tracking for Law Enforcement
- Keeping Watch on Elderly People
- Finding Treasure
- Hiking and Backpacking

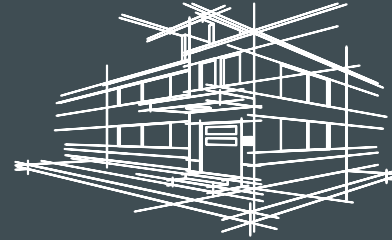
and many more

..... What I Am Working On



Simulation

Simulation will give us a better understanding of how the project will work and the logical circuit behind it



Hardware

This will help us to put out simulations to use and visualize our Data

Simulation Components needed

01.

Proteus Software

02.

GPS and Arduino
modules

03.

Arduino IDE

Hardware

04.

Bread boards with
jumper wires

05.

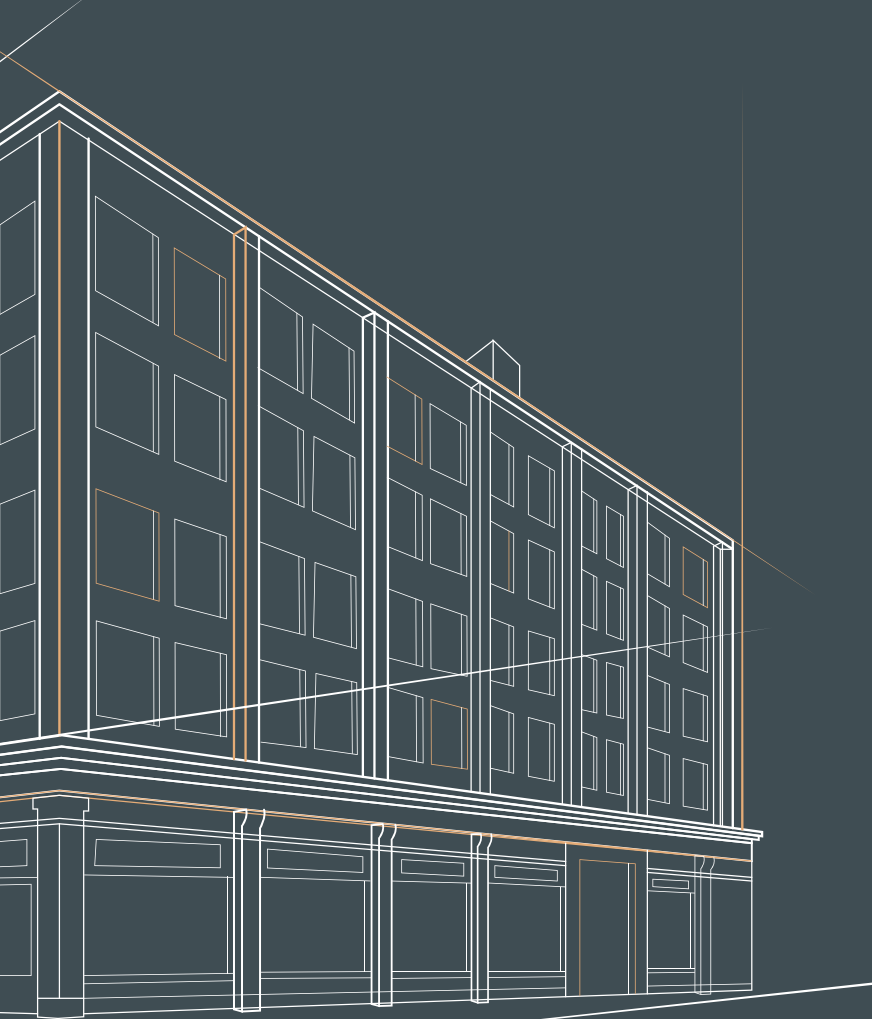
Neo GSM module ESP
module

06.

Bylnks app and website
and Arduino IDE

Our Team





01

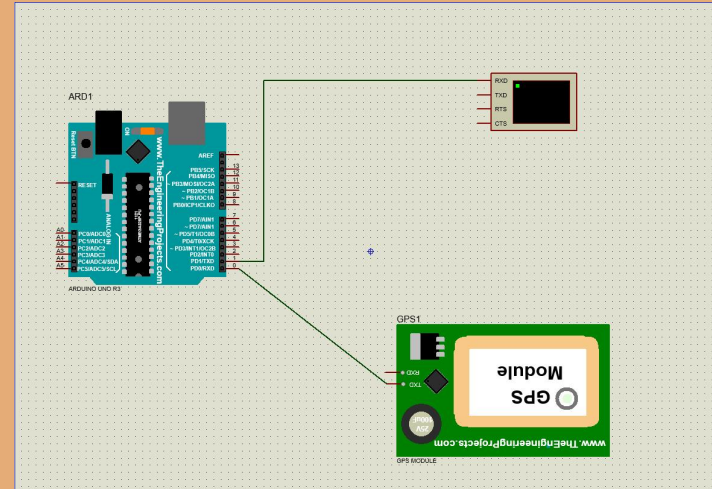
Simulation

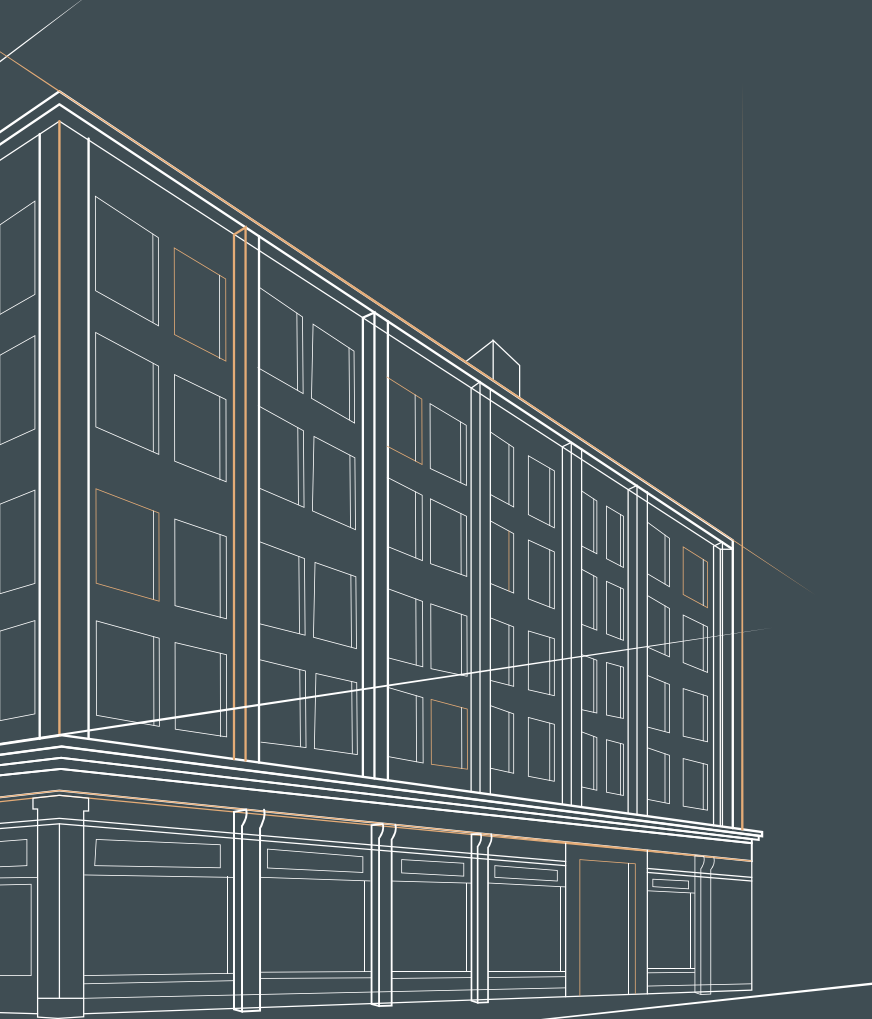


..... About the Simulation

Explanation with Circuit Diagram

Our simulation will use GPS module and Arduino to Present the current latitude and longitude through a Virtual terminal We will use Arduino IDE and Tiny GPS library to code for Arduino and generate a hex file which will be uploaded in the same this will be further improved by adding V GPS module to provide real time location on google maps and add sim module to change it to women tracking system



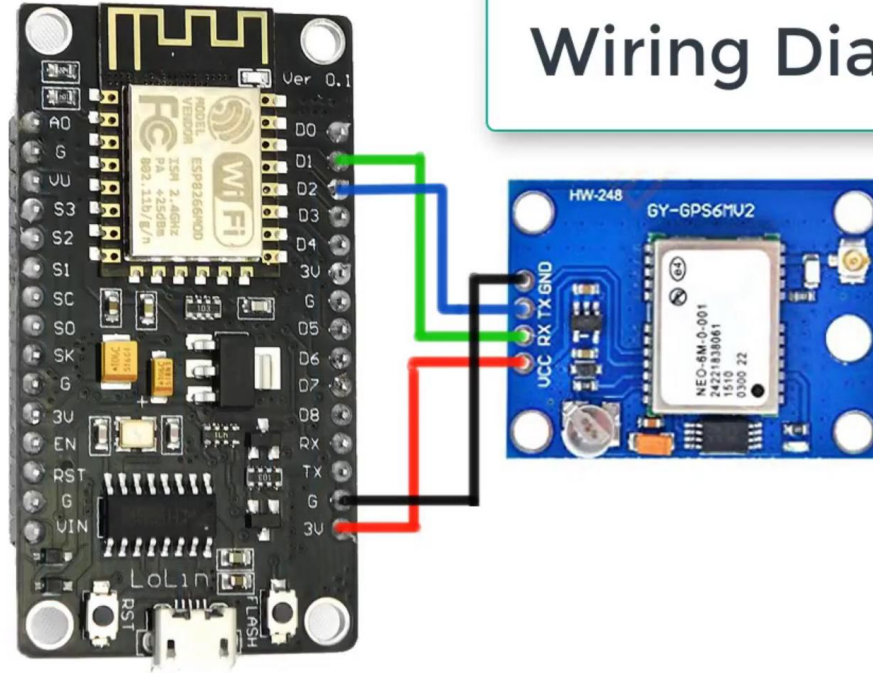


02

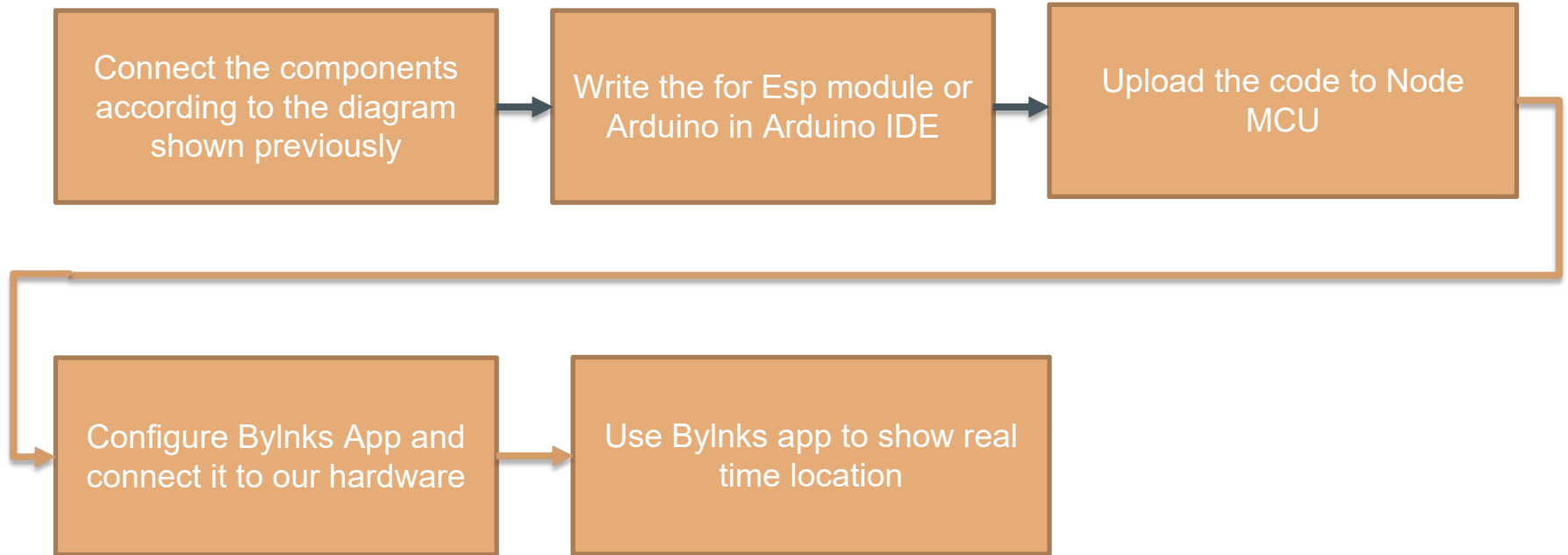
Hardware



Circuit Diagram



Block Diagram for hardware



Time line



Review 1

Get to know about the project ,get knowledge about it and work out the plan on how to work on it



Review 2

Make the simulation and start working on the hardware



Review 3

Make a functional Hardware with bylnks app or make a simulation with real time location



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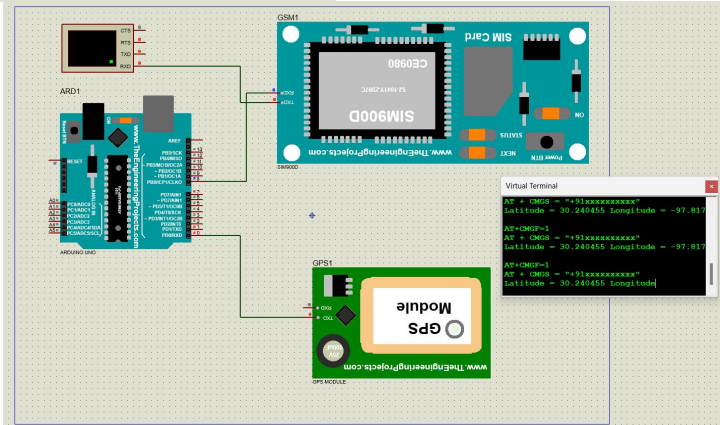
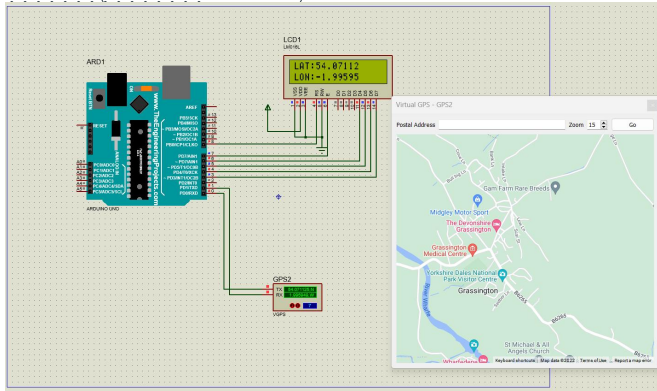
Review 2

GPS Tracking

GPS GSM simulation and GPS Tracking Hardware

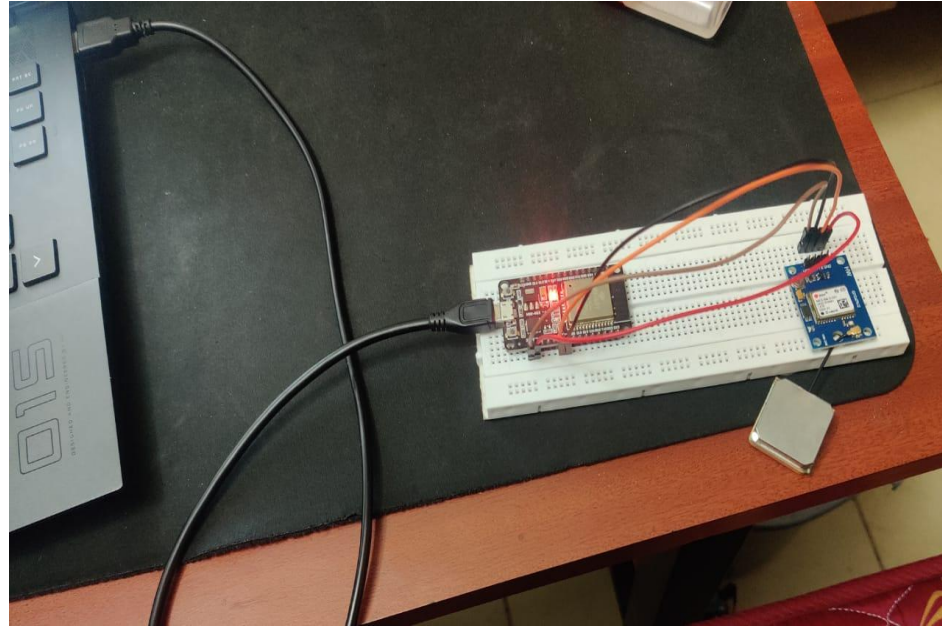
Simulation

This slide represent the Simulation work done so far



- Gps and GSM module are used to Show data on the Virtual terminal
- LCD module is used to show the DATA Taken from the VGPS module and Display on Google maps
- GSM module is used to detect the mobile number and provide appropriate GPS messages

Hardware



The Hardware Component
worked on so far

Coding

```
void sendGps()
{
  //-----
  while(neogps.available())
  {
    if (gps.encode(neogps.read()))
    {
      break;
    }
  }
  //-----
  if (!gps.location.isValid())
  {
    Serial.println("Failed to read from GPS Module!");
    return;
  }
  //-----
  //get latitude and longitude
  float latitude = gps.location.lat();
  float longitude = gps.location.lng();
  float speed = gps.speed.kmph();
  //-----
  //comment out this block of code to save space
  //used for debugging in serial monitor
  Serial.print("Latitude: ");
  Serial.println(latitude, 6);
  Serial.print("Longitude: ");
  Serial.println(longitude, 6);
  Serial.print("Speed: ");
  Serial.println(speed, 6);
  ...
}
```

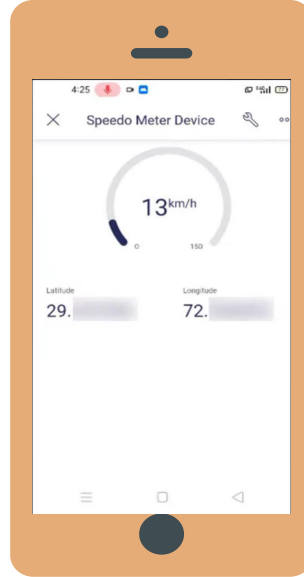
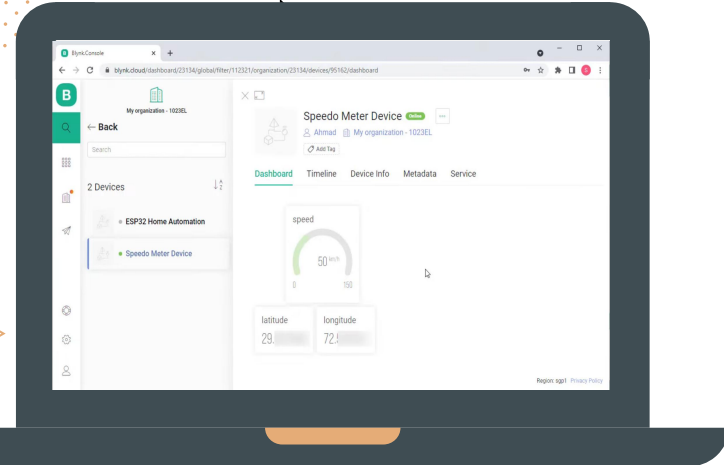
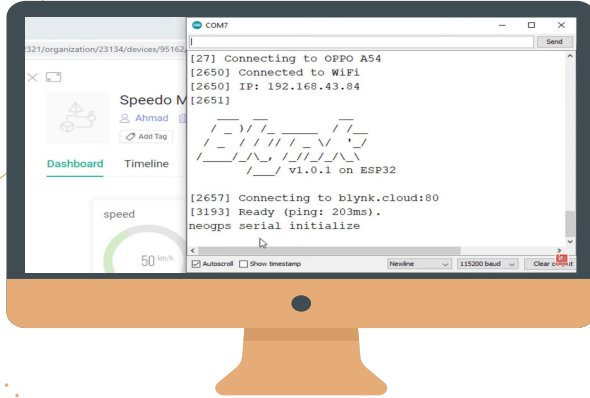
```
void setup()
{
  //-----
  //Debug console (Serial Monitor)
  Serial.begin(115200);
  //-----
  Blynk.begin(auth, ssid, pass);
  //You can also specify server:
  //Blynk.begin(auth, ssid, pass, "blynk.cloud", 80);
  //Blynk.begin(auth, ssid, pass, IPAddress(192,168,1,100), 8080);
  //-----
  //Set GPS module baud rate
  neogps.begin(9600, SERIAL_8N1, RXD2, TXD2);
  Serial.println("neogps serial initialize");
  delay(10);
  //-----
  // Setup a function to be called every second
  timer.setInterval(INTERVAL, sendGps);
  //-----
}

/*****
 * loop() function
 *****/

void loop()
{
  Blynk.run();
  timer.run();
}
```

Images of Coding done for
hardware on Arduino

Blynk app



All Platforms

You can replace the images on these mockups with your own work. Just delete them, add yours and place them on top of the screen of each device



“Thanks for listening .”

