**ENGINEERING JOURNAL TEMPLATE**

# Date

09-13th March

A lot going on in college could not get as much as Id like this week

# Solutions

*Software:*

<https://developer.mozilla.org/en-US/docs/Learn/Server-side/Express_Nodejs/routes>

Understanding routes + controllers

So routes forwards the request to appropriate controller

Created rideController.js which requires my schema

Ride = require('./rideModel');

I have also changed mqtthandler as stated in last journal. I send mqtt message as one and in JSON format. From research it will make it a lot easier to have it in JSON

 mqtt\_client.subscribe('all\_data');

The client has to establish a connection to the broker by sending a connect packet. Below is everything getting sent as the all\_data message along with empty string for weather conditions (not sure how I will get this to work just yet) and name. Using the math.floor as it rounds down. <https://www.w3schools.com/jsref/jsref_floor.asp>

mqtt\_client.on('message', function(topic, message, packet) {

    if (topic == 'all\_data') {

        var msg  = JSON.parse(message);

        var speed = msg.speed;

        var rpm = msg.rpm;

        var distance =  msg.distance;

        var average     =   msg.average;

        var maximum     = msg.maximum;

        var time\_n      = Math.floor(Date.now()/1000);

        var d\_id        = msg.d\_id;

        var cond =  ""; // Ride condition

        var name        =  ""   // Ride Name

        //if (speed != "" && rpm != "")

        var data = {

                speed : speed,

                rpm : rpm,

                distance : distance,

                average : average,

                maximum : maximum

            };