# Project Doubt

Question to ask

1. System design document or architecture document?

2. How the system will work?

3. KT about the demo?

4. Software and which document I should follow?

1. Who is the end user?

OCC team will do key in data,

1. know more about Work Order, technical alarms, environmental monitoring list

My work is to create Demo software for ITSWC 2019 deliver on August

1. What software I have to use for demo. All the feature need to cover, is any other person involve in this demo.
2. The other person develops the UI design. (Software detail)
3. I want to know in which module I have to start first.
4. So I get the data from DB or other source and display in GIS monitor, CC, BIS.

OWA workstation simulation workstation

1. Also concentrate on planned event (Mobile IR) and unplanned event (accident IR)

So far I understand get the Data from the db and display into 3 different panels.

I need for data. (Where to store and retrieve the data) – (Do I create DB table if yes I need table design)

Incident Record

Work order

Technical Alarms

Environmental Monitoring list

How to send data to the client. It’s a JSON object or any other

BIs real time – which data is used for different chart 1.

Doubt

In Incident record display lane column what conditions apply to choose the colors. RED, GREEN

# Employee Department

|  |  |
| --- | --- |
| **Person** | **Name** |
| Employee ID | E523 |
| Department | B854 |
| Project Number | 1163161 |
| Project Name | TT231 - Upgrading of i-transport system |
| Building Access ID | T1586 |
| Official Email | [manjula.devadoss@ext.soprasteria.com](mailto:manjula.devadoss@ext.soprasteria.com) |
| Hrms – Leave apply | <https://ssa-ehr.steria.com.sg/Web/Login.aspx>  Emplid / ac@Ehr19/  If youf forgot the pass, then reset the password, now your password is changed to your fin |
| Web Email | <https://outlook.office365.com/mail> |
| Time Sheet Portal | https://steria-otl.oracleoutsourcing.com/OA\_HTML/RF.jsp?function\_id=29170&resp\_id=-1&resp\_appl\_id=-1&security\_group\_id=0&lang\_code=US&oas=BAPvOdhEouIMtr-\_o1Hstg..&params=YEMI-CN6yCCjpR9zx47Wq6clm3KG3208CGMH-qMf.srTArf3yEYkjLTDaVBEg-b8 |
| Onedrive | https://steria-my.sharepoint.com/personal/manjula\_devadoss\_ext\_soprasteria\_com/\_layouts/15/onedrive.aspx |
| Windowspass | green@Sopra$19 |
| Share point folder | https://steria.sharepoint.com/\_layouts/15/sharepoint.aspx |
| Hithub Repository | Github Desktop and url added  [Logi](mailto:Manjula.devadoss@ext.soprasteria.com)n SopraId /  |
| BIS Folder (network folder) | \\10.180.8.9\Projects\Singapore\Transport\Road\ITS\TT231\PDF - Product Files\01 - Project Design\10 - Final Design\BIS |
| GIS Folder (network folder) | \\10.180.8.9\Projects\Singapore\Transport\Road\ITS\TT231\PDF - Product Files\01 - Project Design\08 - GIS\itransport 1 GIS documents |
| VPN Access | <https://116.12.251.132/global-protect/login.esp> |
| Invision Application | https://www.invisionapp.com/  [manjula.devadoss@ext.soprasteria.com/ac@invi19](mailto:manjula.devadoss@ext.soprasteria.com/ac@invi19) |
| arcGIS Login | https://developers.arcgis.com/downloads/apis-and-sdks  manjula.devadoss@ext.soprasteria.com  manjuladeva /ac@arcG19  which city you born ? mayuram  ArcGIS Online Name : manjuladeva  ArcGIS Online URL : <http://manjuladeva.maps.arcgis.com> |
| Openmaptile server | Officeid/ac@open19 |
| SSO Management sopra-steria | uname mdevadoss/ac@ssom  <https://stars3.soprasteria.com/prod/index.do> |
| Postman | [manjula.devadoss@ext.soprasteria.com](mailto:manjula.devadoss@ext.soprasteria.com) / ssauser2019/ ac@Post19 |
| GITLAB – sourcecode repository | manjulad / sopra@hit1119  [manjula.devadoss@ext.soprasteria.com](mailto:manjula.devadoss@ext.soprasteria.com) |
| Oracle | [manjula.devadoss@ext.soprasteria.com](mailto:manjula.devadoss@ext.soprasteria.com) /sopra@Oracle1119 |
| Gitlab credential | manjulad / sopra@hit1119 |
| JIRA Access | http://10.180.9.18:8080/secure/WelcomeToJIRA.jspa  manjula.devadoss / sopra@jira1119 |
| Install Creative Cloud | [manjula.devadoss@ext.soprasteria.com](mailto:manjula.devadoss@ext.soprasteria.com) / sopra@Adobe19 |
| <https://www.canva.com/signup> | [manjula.devadoss@ext.soprasteria.com](mailto:manjula.devadoss@ext.soprasteria.com) / sopra@Can19 |

|  |  |
| --- | --- |
| **Person** | **Name** |
| Aaron | - UI designer |
| Tian he | - Technical Consultant |
| Oscar | - Project Manager |
| Cos module | - workflow of the system  - Operational system PT\_COS |
|  |  |
| Live website | https://www.onemotoring.com.sg/content/onemotoring/home.html |
|  |  |
| <https://fontawesome.com/download> | [manjula.devadoss@ext.soprasteria.com](mailto:manjula.devadoss@ext.soprasteria.com) / ac@font19 |
| Oct 21 2019 TO Oct 25 2019 | Suntec City Convention & Exhibition Centre, Hall 401-406, booth 247 |

1. Email to Tian He to get more technical design
2. Concentra on IR – Incident Record –
   1. Planned event (Mobile IR)
   2. No Planned event (Accident)

# Folder Access

**Project Folder**

1.)    [\\10.180.8.9\Projects\Singapore\Transport\Road\ITS\TT231\](file:///\\10.180.8.9\Projects\Singapore\Transport\Road\ITS\TT231\)

2.)    [\\10.180.8.9\Projects\Singapore\Transport\Road\ITS\RP147](file:///\\10.180.8.9\Projects\Singapore\Transport\Road\ITS\RP147)

I think accessing TT231 project folder should be benefitial for you to work on the preparation for ITSWC.

You may find the project design related folder @[\\10.180.8.9\Projects\Singapore\Transport\Road\ITS\TT231\PDF - Product Files\01 - Project Design](file:///\\10.180.8.9\Projects\Singapore\Transport\Road\ITS\TT231\PDF%20-%20Product%20Files\01%20-%20Project%20Design).

For existing TT231 storyboards works, they can be found in[\\10.180.8.9\Projects\Singapore\Transport\Road\ITS\TT231\PDF - Product Files\01 - Project Design\07 - User Interface Design Document\Storyboard](file:///\\10.180.8.9\Projects\Singapore\Transport\Road\ITS\TT231\PDF%20-%20Product%20Files\01%20-%20Project%20Design\07%20-%20User%20Interface%20Design%20Document\Storyboard)

As TT231 is still under design phase, you may refer some old system features by studying the old system manuals [\\10.180.8.9\Projects\Singapore\Transport\Road\ITS\RP147\PDF - Product files\1 - i-transport\25 - Detail Design Documents, Maintenance Manual and Training Manual\20190131\_Submission\Integrated  Workstation Manual](file:///\\10.180.8.9\Projects\Singapore\Transport\Road\ITS\RP147\PDF%20-%20Product%20files\1%20-%20i-transport\25%20-%20Detail%20Design%20Documents,%20Maintenance%20Manual%20and%20Training%20Manual\20190131_Submission\Integrated%20%20Workstation%20Manual)

leave HRML tool

<https://ssa-ehr.steria.com.sg/Web/Login.aspx>

Share point

<https://steria.sharepoint.com/_layouts/15/sharepoint.aspx>

Office email

<https://outlook.office365.com/mail/inbox>

Folder Access

[file://10.180.8.9/Projects/Singapore/Transport/Road/ITS/TT231/](file:///\\10.180.8.9\Projects\Singapore\Transport\Road\ITS\TT231\)

office email configured into Microsoft mail app

Web services..

https://medium.com/codingthesmartway-com-blog/create-a-rest-api-with-json-server-36da8680136d

# Laptop configuration

Laptop Hardware Detail

HP Elitebook

Windows 10 Enterprise

16GB RAM

500 GB hard disk

64-bit Operating System.

Mountbatton office wifi

umblockbl3 / welcometoUM

# Document Share Folder Location

|  |  |
| --- | --- |
| Event location | W:\Singapore\Transport\Road\ITS\TT231\PDF - Product Files\01 - Project Design\04 - Knowledge Acquisition (KAP)\Submitted\Planned Event Report |

# Useful Links

|  |  |
| --- | --- |
| JVM | <https://blog.overops.com/jvm-architecture-101-get-to-know-your-virtual-machine/> |
| Bootstrap setup | <https://www.codecademy.com/articles/bootstrap>  ----- Bootstrap setup -----  1. Add boostrap folder into your project (dist Folder)  2. Boostrap dist folder, it contains css, js files  3. Change html file "src and link location " in to copied file location |
| jquery and bootstrap links or chart | https://mdbootstrap.com/snippets/jquery/temp/373176?action=prism\_export  https://canvasjs.com/jquery-charts/pie-chart/ |
| MAP | <https://www.amcharts.com/javascript-maps/> |
| Google Chart | <https://www.w3schools.com/howto/howto_google_charts.asp>  Examples Files  <script type="text/javascript" src="https://www.gstatic.com/charts/loader.js"></script>  Files : piechart1.html  File : pie1.js |
| Grid | <https://www.w3schools.com/howto/howto_js_list_grid_view.asp>  Examples Files  <script type="text/javascript" src="https://www.gstatic.com/charts/loader.js"></script>  Files : gridexp.html  File : pie1.js  File : colchart.js |
| Color Key | "#CDA776",  "#989898",  "#CB252B",  "#E39371",  "#1D7A46"  "#DEB887",  "#A9A9A9",  "#DC143C",  "#F4A460",  "#2E8B57"  “A9A9A9” – gray |
|  |  |

# Software Installation

## Software Version and Detail

1. jdk1.8.0\_201
2. Eclipse IDE for Java Developers (Nano) neon 03
3. apache-tomcat-9.0.16
4. apache-maven-3.6.0
5. Giphub Desktop - <https://desktop.github.com/>
6. Bootstrap / Note js / Angular Js

apache-maven-3.6.0-bin

eclipse-java-neon-3-win32-x86\_64

apache-tomcat-9.0.16-windows-x64

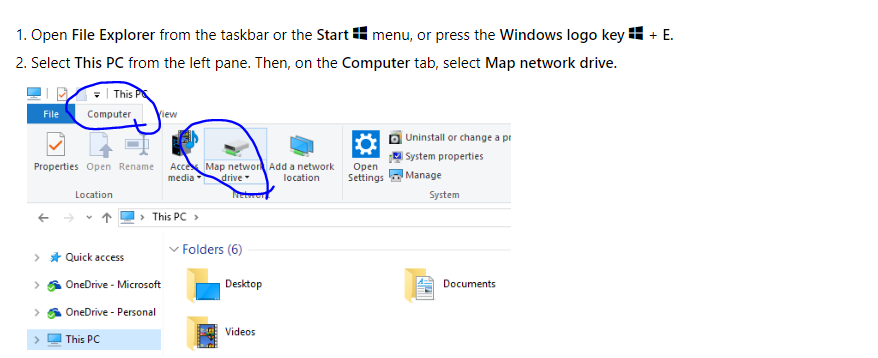
jdk-8u201-windows-x64

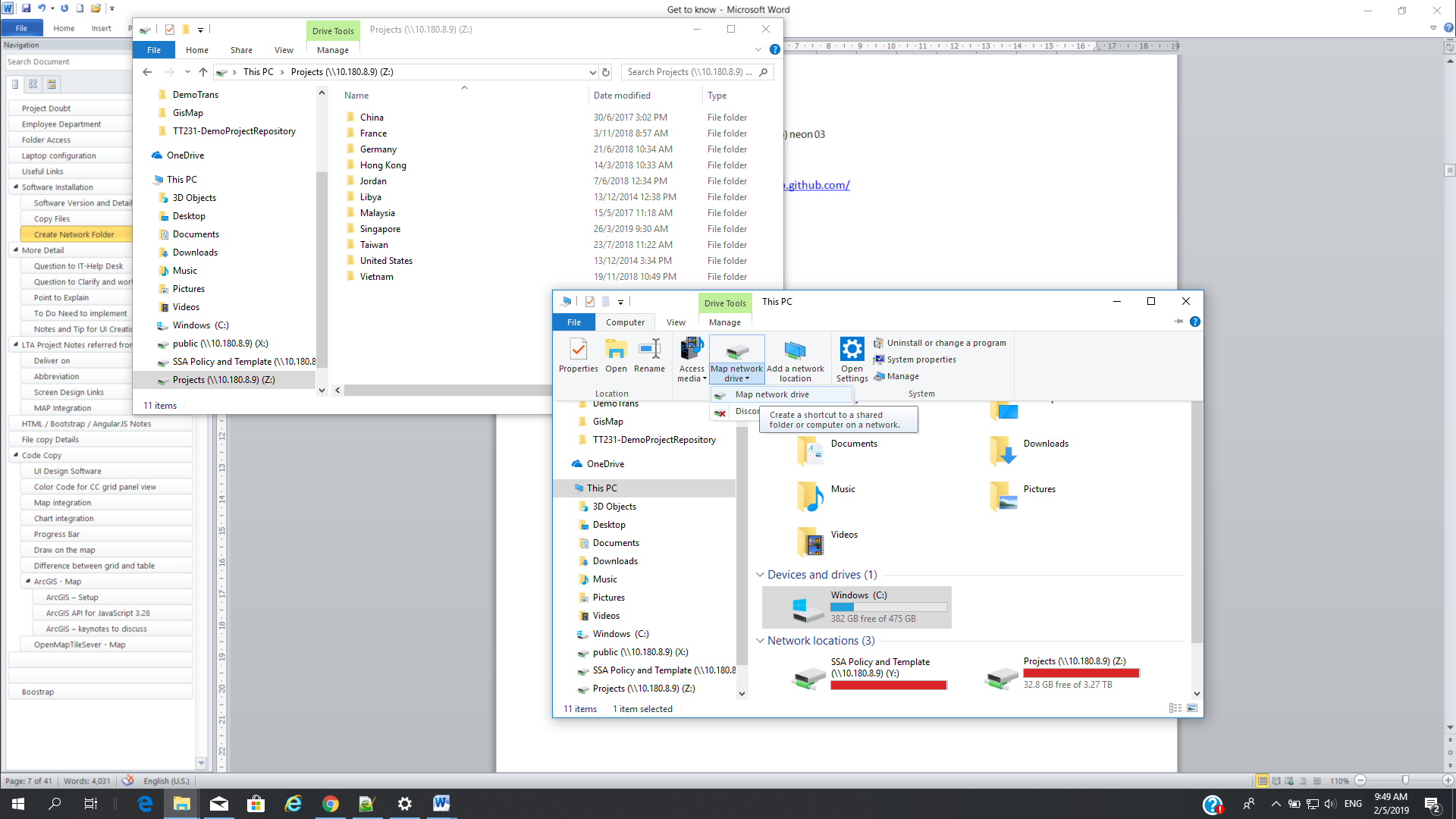
## Copy Files

C:\Users\mdevadoss\workspace

C:\documents\github

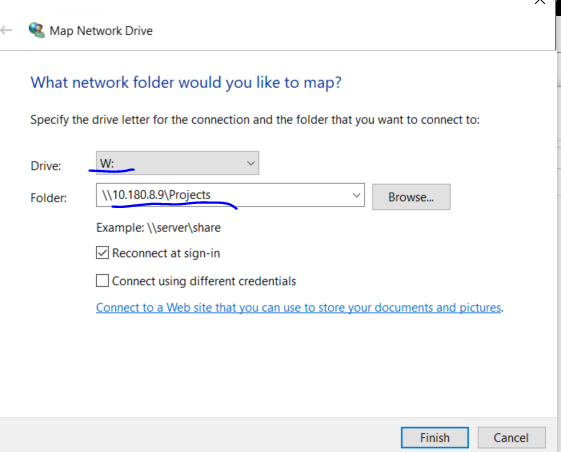
## Create Network Folder



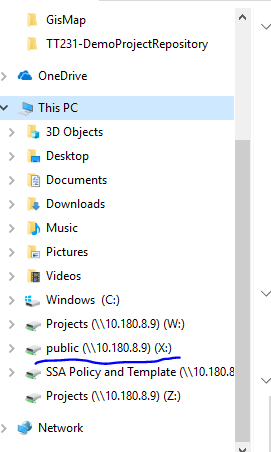


Choose the Drive (any)

Folder – Browse your network folder or type ur correct ip and folder

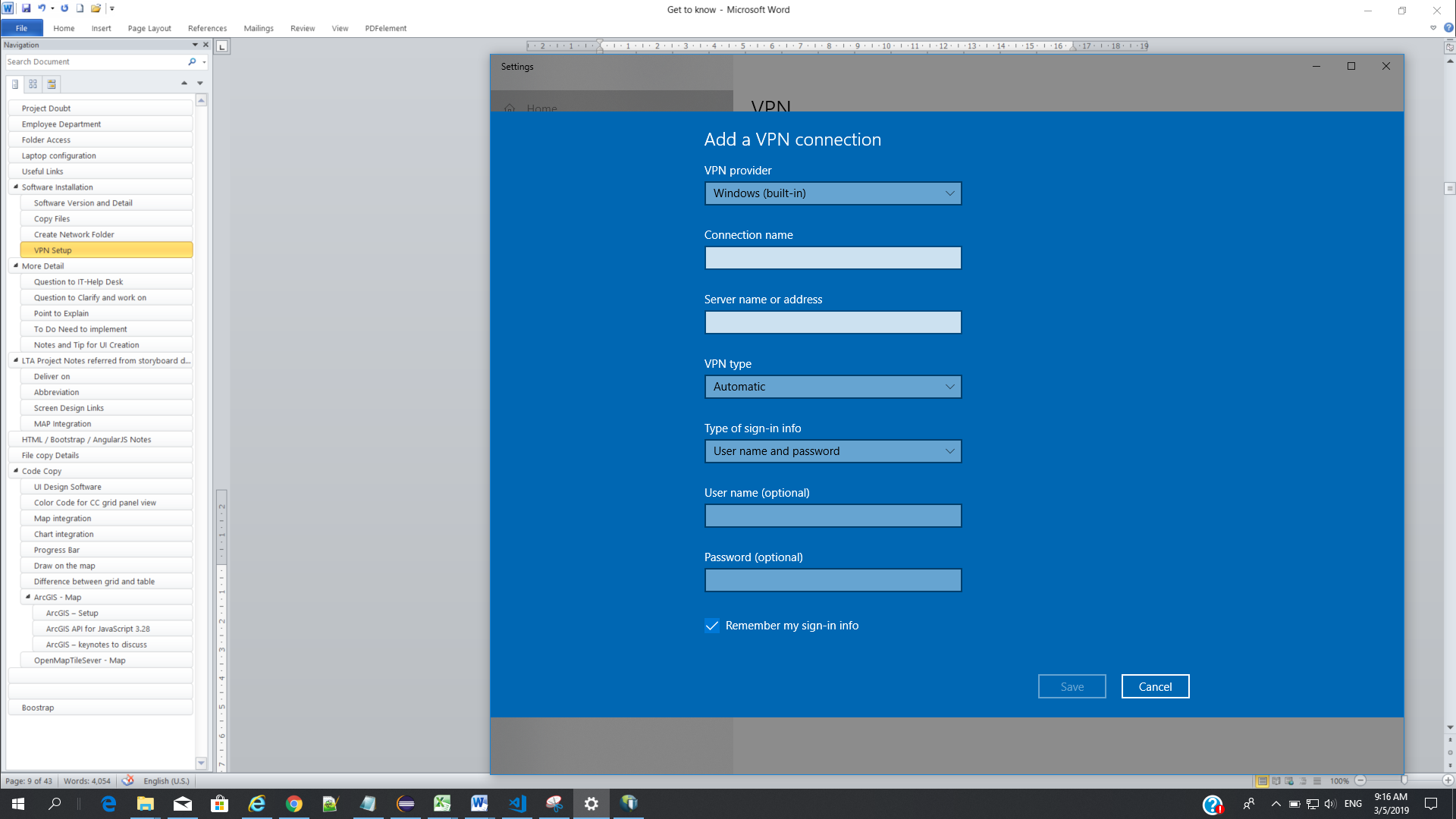


New public folder create public(\\10.180...)

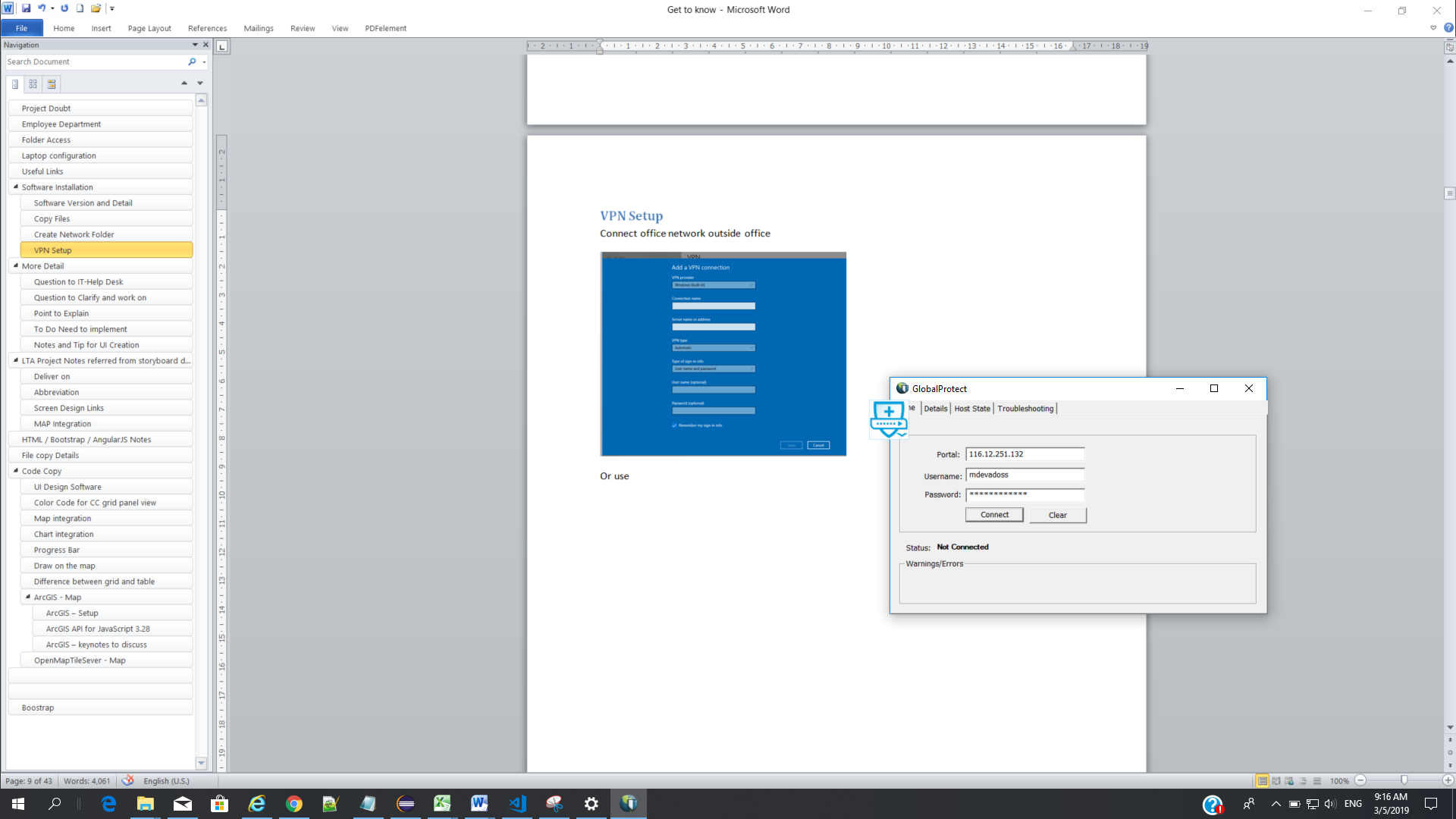


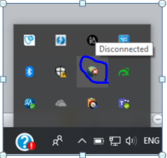
## VPN Setup

Connect office network outside office



Or use Global Protect





# More Detail

## Question to IT-Help Desk

I couldn't access Share point folder - let say access one drive, one note etc.,

I couldn't configure my outlook. - currently using browser to view email

The wifi is disconnecting Frequently

Understand and Practice

* Json file creation
* Panel Display
* war file creation

Get icon from UI developer

user type - display screen --

Menu(IR) and operation

Identify the screen list

Approach for demo:

1. Identify all screens. Title of the screen, one line description,
2. Need icon/image , background color detail.
3. What are the functionalities need to implement per screen?
4. Technical alarm data and Graph input and functionality
5. MRT Breakdown I need the data – like start station, Mrt Line details

In the grid view

1. What data need to search in Grid view top search in
2. Incident Record
3. 2. Create a spreadsheet with above information and tag them with UI storyboard section

Ask Aaron

1. **i-Transport 2.0 Logo**
2. **Button Colors**
3. **IR Icons**
4. **Menu Icons**

3. Write an email to whoever and tell them:

- Create key screens using HTML5/Bootstrap/AngularJS/JSON technologies on a normal white background theme

- Internal Demo them as phase 1 to Manager and UI person

- After demo, receive feedback. Proceed to either implement more screens or

develop backend logic with database for the existing screens

- Give more internal demo and receive feedback.

- Incorporate the feedback in spreadsheet and work on it

BIS I need help.

I want sample data.

I couldn't access Share pointfolder - let say access onedrive, onenote etc.,

I couldn't configure my outlook. - currently using browser to view email

The wifi is disconnecting Frequently

## Question to Clarify and work on

1. **Accident IR – Create**

**Need data for select case**

1. Accident Type (Select)

2. Type of Danger (Select)

3. Sate of Roadway (Select)

4. Type of Danger (Select)

**Re engineering on**

“Add to New Lane” dropdown

1. **Accident IR – Response**

**Re engineering on**

“Button and text box” size

## Point to Explain

1. TT231 UI/UX direction I need exact Color scheme.
2. Aaron explained how to get the color –

He explained the following

1. Copy original image to MS-Paint software
2. Pick top and bottom color from each color, it will RGB color code.
3. Convert to hex code using online software. Finally you get gradient color.

## To Do Need to implement

1. Edit in VMS message
2. Block or Unbklock Lanes in Create IR
3. Change cursor point as arrow not a hand in “add lane”

Approach for demo:

1. Identify all screens. Title of the screen, one line description, used by, what can they do with that?

2. Create a spreadsheet with above information and tag them with UI storyboard section

3. Write an email to whoever and tell them:

   - Create key screens using HTML5/Bootstrap/AngularJS/JSON technologies on a normal white background theme

   - Internal Demo them as phase 1 to Manager and UI person

   - After demo, receive feedback. Proceed to either implement more screens or

       develop backend logic with database for the existing screens

   - Give more internal demo and receive feedback.

   - Incorporate the feedback in spreadsheet and work on it

BIS I need help.

I want sample data.

## Notes and Tip for UI Creation

|  |  |
| --- | --- |
| Panel display - accordion | Write “toggle plus and minus css in html/jsp page not in javascript file  Point to remember   * Include Panel LINK REF in jsp/html * Include JAVASCRIPT code to swap the panel * Include panel tile, active body code in CSS |
| Table | More than one table then write one of the table css in html/jsp page |
| Scroll bar | Write Scroll code in CSS include, thumb, track, corner |
| Menu down pointer | * Include LINK Ref * Include css |

# LTA Project Notes referred from storyboard document.

## Deliver on

Project TT231 I-Transport version 2.0

Oct 2019 - Deliver on to ITSWC 2019

August 2019 - LTA demo

Upgrading i – transporting System

The document all about to interaction between user and i- transport

**OWA - Operator Workstation Application**

**OWA Frontend Interface**

## Abbreviation

|  |  |
| --- | --- |
| GIS | Graphics Information System |
| BIS | Business Intelligence |
| IR | Incident Record |
| CC | Common Control |
| PMCS | Power Management Control System (or) Plan monitoring control system |
| VMS | Visual message system |
| UMT | United Maintenance Hub |

User has the options to create, edit and manipulate these records like Incident Records, work order, technical alarm, and Environmental monitoring list

Equipment repair

1. Preventing work order
   1. Schedule work order, maintenance work
2. Corrective work order
   1. People call and complaint about equipment
3. Adhoc work order
   1. People complaint and not noticed similar other problem

Panel displays

* PMCS measuring alarms,
* TTD threshold warnings
* Fire alarms
* Accident
* Road Works
* Breakdowns
* Mobile Road Work
* Obstacle
* Heavy Traffic
* Road block
* Unattended vehicle
* Miscellaneous

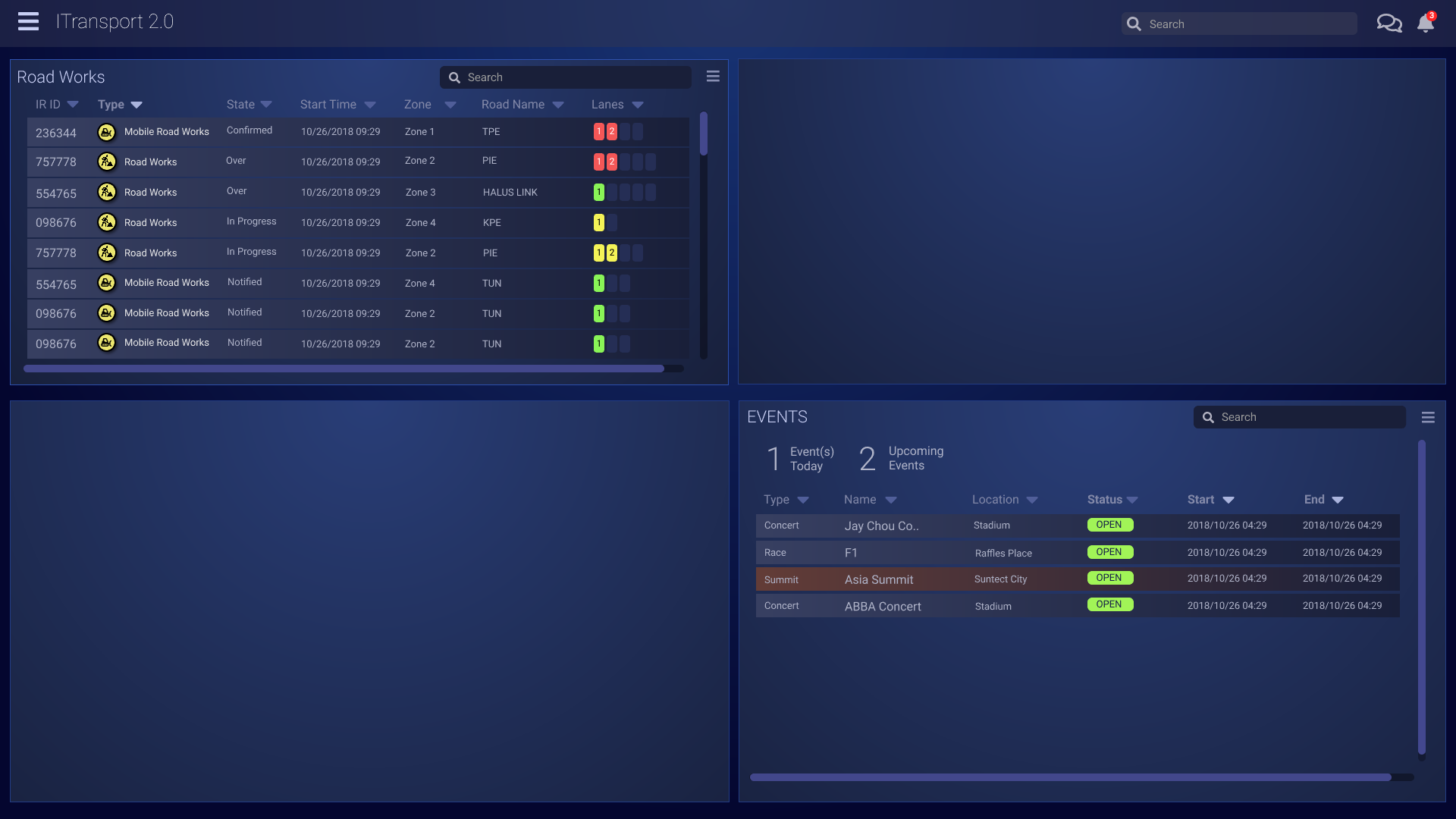
**Common Control System**



**Events**

Events panel shows all available planned events.

1. Today and 2.Upcoming events like Asia Summit, ABBA Concert etc.,



GIS (Graphics Information System) Map shows important event on interactive Map

GIS MAP



**BIS Real time**

* BIS (Business Intelligence) Real time page displays
* Real time static of live traffic data.
* Customizable with a variety of different charts and statistics

BIS Real time screen



OWA User login

1. Enter user name and password
2. Select Zone Selection
3. Successful user get OWA interface with 3 window GIS, CC, BIS
4. **Common Control System (CC)**

Four Panels will display

1. Panel filtering like sort the zone

2. Merge two panels

3. Split the panel

4. New Technical alarm notification

1. Business Intelligence System (BIS)

* Displays real-time analytics of road conditions
* Other system information
* Customizable chart by the user and saved
* Each panel can be set to a specific chart

1. Incident Record (IR)

* GIS map to reveal a dropdown list of all available IR’s.
* User can create and edit the IR settings like heavy traffic
* To block or unblock the lane.
* To add/delete new lane
* VMS Message - user can multi select the VMS plans
* OBU message
* Record and track all assets on the ground. can type vehicle number display on the map
  1. MRT breakdown IR workflow
* Create MRT Breakdown IF - enter breakdown line
* Enter more detail about breakdown
* Create heavy traffic IR
  1. Mobile Roadwork
* Create a Mobile work
* can able to track the vehicle
  1. Equipment Control Workflow
* Equipment control popup
* EMAS, Monitor, Junction, FCT
* FCT - VMS, Camera, LUS, Jet Fan, Lighting, RBBI
* The Quick Equipment control has 4 main sections, Manual, IR & Events, Time Config & Default Message
  1. Single Equipment Control
  2. Event Workflow
* Ongoing and upcoming event
* User can create the new Event and lane detail
* Add VMS plan
* Two Status : Planned / Approved
* After approving to be implemented
* On event date status as "Live"
  1. Miscellaneous Tools
* Deleting An Event
* Critical junction tool
* VMS Library
* VMS side menu
* VMs Gallery
* VMS Editor
* Pictogram

Incident Type---

Accident

Vehicle Breakdown

Unattended Vehicle

Road Works

Obstacles

Slow Trafiic

Weather

Road Block

Miscellaneous

Diversion

fire

Plant Failure

Reverse Flow

Zone---

Zone 1

Zone 2

Zone 3

Zone 4

Zone 5

CTE Tunnel

FCT

Notification ----

Vehicle Recovery System

LTA Traffic Marshal

EMAS ----

Ventilation

Aircon

Lighting

Drainage

Door & Staircase

Power

Fire Alarm

Call in Alarm

**Key Notes**

1. Login
2. User can view 3 panel display
3. User Create Incident Record (IR) from GIS Panel
   1. Incident Record (Heavy Traffic) saved automatically
   2. Based on the IR to block or unblock the lane. (can create/edit/delete new lane)
   3. Can configure VMS plans, Canning messages, OBU messages, Congestion Routes, Partners & Vehicle Response
   4. User can add more VMS message using ”Add to Plan ” option also you can select multiple vms message
   5. This VMS message display on the GIS Map panel
   6. Implemented and failed status for VMS message. If the status is failed the VMS message send to work order
   7. User can also configure OBU message - 3 regions are identified. Alert, Jam & Guide.

Partners & Vehicle Response allows users to record and track all assets on the ground. Type the vehicle for future track.

1. User Create MRT Breakdown (IR) from GIS Pane
   1. MRT line, start time, end time, alarm, alert, status etc
2. Mobile roadworks IR
   1. Tomorrow …….

**History**

Every user authorized to use Platform Control Mode (PCM) or Fall back Control Mode (FCM).

Authorized Users

Operator

FC

Supervisor

DO

ITSC

Operation Mode

PCM (Platform Control Mode)

FCM (Fall back Control Mode )

Types of records available:

       Past traffic alerts

       Past technical alarms

       Past reading alarms

        History of operator commands

       Past incident records

       Past equipment status

       Past work order records

Features:

      Search and retrieve historical data.

       Filter the historical data.

      View GIS for the historical data.

1. Filter by Source

(All, i-transport AID, EMAS AID, SOS phone etc)

1. Filter by Zone

(Zone 1,2... All)

1. Past traffic alerts

**Start Date/Time** – “From and To” -**Search**

3. View GIS

2. Search historical traffic alerts

1. Filter the List

1. Filter the List

1. Filter by Source

2. Filter by Zone

3. Equipment – (EMAS, JEYE, GUDE)

4. Tech Alarm Start DATE/Time

2. Past technical alarms

2. Search historical technical alarms

**Start Date/Time** – “From and To” -**Search**

3. View GIS

3. Reading alarms

**Start Date/Time** – “From and To” -**Search**

3. View GIS

2. Search historical technical alarms

1. Filter the List

1. Equipment – (EMAS, JEYE, GUDE)

1. User ID

2. Command Types (Manual Control, IR Handling, Activate IP etc)

3. **Start Date/Time** – “From and To” -**Search**

1. Search Historical Operator Commands

4. Operator Command Log

2. Operator Commands types

Manual Control commands

• Manual equipment control commands etc.

5. Incident Record

2. Search by historical Incident Record

1. Filter the List

1. Incident Type

2. Notification

3. Zone

1. Search By : Time, IRID, Vehicle Number

2. Start Date/Time Form and To

3. View CCTV, Prioritising and Editing Incident Records

1. CCTV Function

2. Edit Function

3. Priority Function

6. Equipment Status

1. Search Historical Equipment status

1. Start Date/Time Form and To

2. View GIS

1. Start Date/Time Form and To

Filter by Fault Source (EMAS, GLIDE, FCT)

2. Search historical work order

1. Filter the List

7. Work Order

## Screen Design Links

Popup window use it for IR creation

https://www.w3schools.com/howto/tryit.asp?filename=tryhow\_js\_popup\_form

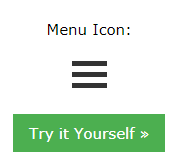
<https://www.w3schools.com/howto/tryit.asp?filename=tryhow_js_popup_form>

Hover Tabs

https://www.w3schools.com/howto/howto\_js\_hover\_tabs.asp

**Menu Icons**

<https://www.w3schools.com/howto/howto_css_menu_icon.asp>



**Drop down Menu**

<https://www.w3schools.com/howto/howto_css_dropdown_navbar.asp>

**Right Click Menu**

<https://jsfiddle.net/djibe89/qej2ppcq/>

**Modal – popup window anguarl js**

<https://embed.plnkr.co/plunk/PbnBdN>

**Modal – popup window bootstrap**

<https://getbootstrap.com/docs/4.0/components/modal/>

**Angular sample example**

<https://docs.angularjs.org/guide/forms>

**Font Colors and name of the colors**

<https://www.w3schools.com/cssref/css_colors.asp>

Bootstrap Grid

<https://www.w3schools.com/Bootstrap/bootstrap_grid_stacked_to_horizontal.asp>

**Popup**

<https://codepen.io/anon/pen/bZVGNb>

CSS

https://www.bitdegree.org/learn/css-display#css-display-inline-block-main-tips

**Grid column resize**

<https://developer.mozilla.org/en-US/docs/Web/CSS/grid-auto-columns>

<https://stackoverflow.com/questions/45799636/use-css-grid-to-make-multiple-different-width-columns-wrap>

https://stackoverflow.com/questions/47171214/set-column-width-to-content-length-in-css-grid

## MAP Integration

<https://developers.google.com/maps/documentation/javascript/tutorial>

# HTML / Bootstrap / AngularJS Notes

|  |  |
| --- | --- |
| **Background image and picture display in full** | **.CSS**  **body** {  background-image: *url("Blured.jpg")*;  background-size: *cover*;  } |
| **Insert image in html file** | .HTML  <img src="img\_girl.jpg" alt="Girl in” style="width:500px;height:600px;"> |
| **Angular js hide and show**  **showList value is true then name dispaly** | .HTML  <div ng-show="showList"> name <div>  .JS  $scope.showList = true; |
| **Button enabled and disabled**  **Button visibility and hidden** | document.getElementById("Button").disabled = true;  document.getElementById("Button").disabled = false;  document.getElementById("Button").style.visibility="hidden";  document.getElementById("Button").style.visibility="visible"; |
| **Button style**  **H2 style**  **Textbox style**  **Dropdown style**  **Padding means button width and height**  **Padding <height> <width>**  **Border radius means to create curve on the button** | body {  font-family: Roboto, Helvetica, sans-serif;  }  h1 {  text-align: center;  font-family: Roboto, Helvetica, sans-serif;  color: #C8CFF4;  margin: 80px 0;  }  .button {  font-size: 1em;  padding: 10px;  color: #202B53;  border: 2p**x** solid #C8CFF4;  border-radius: 20px/50px;  background:#C8CFF4;  }  .overlay {  position: fixed;  top: 0;  bottom: 0;  left: 0;  right: 0;  background: rgba(0, 0, 0, 0.7);  transition: opacity 500ms;  visibility: hidden;  opacity: 0;  }  .overlay:target {  visibility: visible;  opacity: 1;  }  .popup {  margin: 10px auto;  padding: 20px;  background: #202B53;  border-radius: 5px;  width: 30%;  height: 90%;  position: relative;  }  .popup h2 {  margin-top: 0;  color: #C8CFF4;  font-family: Roboto, Helvetica, sans-serif;  }  .popup h3 {  margin-top: 0;  color: #C8CFF4;  font-size: 1em;  font-family: Roboto, Helvetica, sans-serif;  }  .popup input {  width: 50%;  background-color:#C8CFF4;  color: #202B53;  font-family: Roboto, Helvetica, sans-serif;  border-radius: 20px/50px;  }  .popup select {  width: 50%;  padding: 5px 5px;  border: none;  border-radius: 4px;  background-color:#C8CFF4;  color: #202B53;  }  .popup .close {  position: absolute;  top: 20px;  right: 30px;  transition: all 200ms;  font-size: 30px;  font-weight: bold;  text-decoration: none;  color: #C8CFF4;  }  .popup .content {  max-height: 80%;  color: #C8CFF4;  font-size: 15px;  }  } |
| **Give blank tab space in html** | &nbsp;&nbsp; |
| **Date** | <script>  var d = new Date();  document.getElementById("demo").innerHTML = d.toUTCString();  var d = new Date();  document.getElementById("cyear").innerHTML = d.getFullYear();  document.getElementByValue("cmonth").innerHTML = d.getMonth() + 1 ;  document.getElementById("cdate").innerHTML = d.getDate();  document.getElementById("chour").innerHTML = d.getHours();  document.getElementById("cmin").innerHTML = d.getMinutes();  </script> |
| **Date picker** | <https://jsfiddle.net/taditdash/8FHwL/> |
| **Select with image selection** | <https://stackoverflow.com/questions/2965971/how-to-add-images-in-select-list> |
| **Bootstrap with table scroll** | <https://mdbootstrap.com/docs/jquery/tables/scroll/> |
| **Scroll in CSS File** | div.scroll {  width:790px;  overflow-x:scroll;  height:500px;  } |
| **Scroll table example** | <https://codepen.io/tjvantoll/pen/JEKIu> |
| **Custom scroll bar** | https://www.w3schools.com/howto/tryit.asp?filename=tryhow\_css\_custom\_scrollbar2 |
| **Checkbox and Radio button** | https://codepen.io/imohkay/pen/bCpxm |
| **GRID** | <https://www.w3schools.com/css/css_grid.asp> |
| **Insert image inside the text box** | /\* search icon in the text box \*/  *#funkystyling* {  background: *white url(searicon.jpg) left no-repeat*;  padding-left: *5px*;  }  /\* search icon in the text box \*/ |
| **Dropdown Menu** | <http://jsfiddle.net/xj76zn77/1/> |
| **Text box color change – background and color** | background-color:GreenYellow;color:OrangeRed;"  **.html**  <textarea class = "textareaVmsMsg" rows="3" cols="25" ng-model="recommMsg" ng-click="enableText()" >fdg sfgs sg gfg fdgfd sdfds ddfdsfdsf</textarea>  **.css**  <style>  .resizedTextbox {width: 16px; height: 12px; padding: 1px; background-color=blue}  </style> |
| **Angular if condition** | <div ng-if="workOrder.status!=='NOT ACTIVE' && workOrder.status!=='ACTIVE'" > |
| **Table tr – row color change** | <tr **bgcolor="#eee">** |
| **Remove Hyperlink underline** | <a href="default.asp" target="\_blank" **style="text-decoration:none;"**> |
| **Table content alignment in the middle – padding size** | <table width="70%" align="Center" id="evenmaintbl" **cellpadding="10px">** |
| **Multiple window open** | Points to Remember : **Enable the popup options**  **var** windowObjectReference3;  **if**(windowObjectReference3 == **null** || windowObjectReference3.closed) {  windowObjectReference3 = window.open(  "http://localhost:8080/DemoTrans/gis.jsp",  "gis",  "width=520,height=430,resizable,scrollbars,status");  } **else** {  windowObjectReference3.focus();  }; |
| **Gradient colors** | #grad1 {  height: 200px;  background-image: linear-gradient( 90deg, #373F61 , #191F39); /\* Standard syntax (must be last) \*/  }  #grad2 {  height: 200px;  background-image: linear-gradient( 90deg, rgba(55,63,97,1) , rgba(25,31,57,1));  }  <div id="grad1"></div>  <div id="grad2"></div> |
| **Table Alignment** | <table style="width:50%;">  <tr>  <th>Month</th>  <th>Savings</th>  </tr>  <tr style="height:100px">  <td valign="bottom">January</td>  <td valign="top">$100</td>  <td valign="center">$100</td>  </tr>  </table> |
| **Angualrjs passing value – href and button** | <https://www.w3schools.com/angular/tryit.asp?filename=try_ng_ng-click2> |
| **Windows url, domain, location** | <https://www.w3schools.com/js/js_window_location.asp> |
| **Box shadow div** | box-shadow: 3px 8px 6px #888888; |
| **Dropdown left and right align** | <https://www.w3schools.com/CSS/css_dropdowns.asp> |
| **Ng-select – option from javascript file** | <https://stackoverflow.com/questions/47323366/angularjs-ng-select-not-working-as-expectedchae> |
| **Angularjs to angular** | <https://angular.io/guide/ajs-quick-reference> |
| **Moving Div** | <https://www.w3schools.com/howto/tryit.asp?filename=tryhow_js_draggable> |
| **Transparent color in css terms “OPACITY”** | document.getElementById("myDIV").style.opacity |

Scroll bar



Scroll

# POM.XML file explanation

<resource>

<directory>html</directory>

<filtering>false</filtering>

</resource>

<Filtering> False – which includes the directory to create war/ear file – html is a directory so u can access files in your .war file

<Filtering> True – which is not includes the directory to create war/ear file - – html is a directory so u can’t see files in your .war file

<build>

<finalName>gis</finalName> <!--tag is used To change war file name-->

<defaultGoal>install</defaultGoal>

</build>

<finalName> - file name of the .war

<defaultGoal> - maven install then .war file created

# File copy Details

|  |  |
| --- | --- |
| Feb 23 | DemoTrans folder copy – after completed the popup window for create incident record |

# Code Copy

incidentTbl.jsp

*.content* {

max-width: *800px*;

margin: *auto*;

background: *#202B53*;

padding: *10px*;

margin-top: *5%*;

}

## UI Design Software

* Figma on windows
* inVisition in Mac

## Color Code for CC grid panel view

|  |  |
| --- | --- |
|  |  |
| Table Hover color | background-image: *linear-gradient(* *90deg,* *rgba(98,55,55,1)* *,* *rgba(39,26,57,1))*; |
| Table background color | background-image: *linear-gradient(* *90deg,* *rgba(55,63,97,1)* *,* *rgba(25,31,57,1))*; |

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <style>  #grad1 {  height: 50px;  background-image: linear-gradient( 90deg, #373F61 , #191F39); /\* Standard syntax (must be last) \*/  }  #grad2 {  height: 50px;  background-image: linear-gradient( 90deg, rgba(98,55,55,1) , rgba(39,26,57,1));  }  #grad3 {  height: 50px;  background-image: linear-gradient( 90deg,rgba(39,59,115,1) , rgba(25,34,63,1));  }    #grad4 {  background-image: radial-gradient(circle at 50% 0,  rgba(39,59,115,.5),  rgba(25,34,63,0) 70.71%);  }    #grad5 {  height: 50px;  background-color: #191F39;  }    </style>  </head>  <body>  <h1>Linear Gradient - Left to Right</h1>  <p>This linear gradient starts at the left. It starts red, transitioning to yellow:</p>  Table background  <div id="grad1"></div>  Table mouse point move hover  <div id="grad2"></div> <br>  Frame and login background  <br>  <div id="grad3"></div>  Search <br>  <div id="grad5"></div>  </body>  </html> |

Login URL

<http://10.180.8.144:8080/DemoTrans/login.html>

​

## Map integration

Map Video and Sample Code

https://www.youtube.com/watch?v=Zxf1mnP5zcw

Sample Code

<https://developers.google.com/maps/documentation/javascript/examples/icon-simple>

MAPKey : AIzaSyBftNjhUBktbiYrfJMLYRHUCi4BKPGO6eI

API KEY from the console.developer window

1. create map in script,

2. create inti map

3. div in html

4. style for the map

5. create another <script> in initmap()

1. "center" Specify the longidute, latidute

2. Marker - to place marked in the map

3. icon - beach, restuarent, see, playground

4. popup - underthe marker infowindow

## Chart integration

Technical Alarm Chart name is called **= Crosshair chart**



<https://canvasjs.com/javascript-charts/chart-cursor-crosshair/>

<https://canvasjs.com/html5-javascript-line-chart/>

angularjs and chart

<https://jsbin.com/ketudijuki/edit?html,css,js,output>

Json, Ajax, Angularjs

<https://canvasjs.com/docs/charts/how-to/javascript-charts-from-json-data-api-and-ajax/>

Chart Example (following now)

<https://medium.com/javascript-in-plain-english/exploring-chart-js-e3ba70b07aa4>

<http://jsfiddle.net/4vobe59a/>

## Progress Bar

<https://codepen.io/SIRHAMY/pen/qZmwKe/>

<https://codepen.io/gustitammam/pen/RRXGdj>

<https://codepen.io/curdwithraisins/pen/aOGEBX>

## Draw on the map

Adding widget / draw a square box on the map

<https://embed.plnkr.co/fTujnLQlpPVibNezqouU/>

## Difference between grid and table

<https://medium.com/@js_tut/new-things-css-grid-brings-to-the-table-e465cb5d2841>

## ArcGIS - Map

|  |  |
| --- | --- |
| Display Table | <https://developers.arcgis.com/labs/javascript/display-point-line-and-polygon-graphics/> |
| Popup Chart | <https://developers.arcgis.com/javascript/3/samples/popup_chart/> |
| API Reference | <https://developers.arcgis.com/javascript/3/jsapi/map-amd.html#setbasemap> |
| Basic Map Sample | <https://developers.arcgis.com/javascript/3/sandbox/sandbox.html?sample=map_simple> |
| Sand Box view | <https://developers.arcgis.com/javascript/latest/sample-code/sandbox/index.html?sample=views-switch-2d-3d> |
| Map javascript code editor | <https://www.jslint.com/> |
| Java Script Editor | Aptana Studio 3 Setup link  <https://developers.arcgis.com/javascript/3/jsapi/api_devenv.html> |
| Microsoft Visual Studio | <https://code.visualstudio.com/docs/?dv=win> |
| Online - Java script editor | <https://www.jslint.com/> |

### ArcGIS – Setup

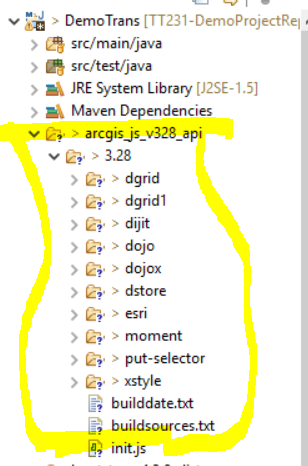
### [ArcGIS API for JavaScript 3.28](https://developers.arcgis.com/javascript/3/)

1. Download ArcGIS arcgis\_js\_v328\_api. Choose the correct version and download
2. Installation html file available inside the zip file. Open and follow the instruction.
3. The ArcGIS API for JavaScript library can be copied in its entirety to your web server directory
4. you will need to edit some files to specify the baseUrl (www.example.com/arcgis\_js\_api/library/3.28/) for the default Dojo configuration.
5. Copy folder Library/3.28/ and paste it into your application main folder
6. Modify your file init.js/dojo.js

## Using HTTP

Note: While not recommended, it is possible to host the ArcGIS API for JavaScript library using http. The dojo.js and init.js files would need modification to update https to http.  
Before: baseUrl:"https://www.example.com/arcgis\_js\_api/library/3.28/3.28/dojo"  
After: baseUrl:"http://www.example.com/arcgis\_js\_api/library/3.28/3.28/dojo"

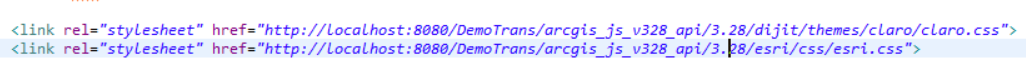
<https://www.example.com/> - local folder location to http://localhost:8080/DemoTrans



1. Add entry in **pom.xml** for build the arcgis api



1. Wrote location into your .jsp or.html file (Source)
2. Copy icon file and change the locations
3. Create Separate CSS file
4. Create Separate JS file
5. Mention .css and .js reference in JSP File





Map type : map :”dark-gray-vector”

Map properties:

* dark-gray
* dark-gray-vector
* gray
* gray-vector
* hybrid,
* street
* street-vector
* topo-vector

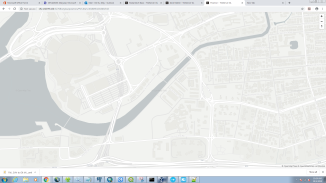
esriDefaultMarker\_193\_Yellow.png

TrafficAccident.png

RoadWork.png

|  |  |
| --- | --- |
| Offline Map feature | <https://developers.arcgis.com/features/offline/> |
| **Map Symbol / icons**  Images | <https://developers.arcgis.com/javascript/3/sandbox/sandbox.html?sample=portal_symbols> |
| PictureMarkerSymbol  **Onload Event** | <https://pisquare.osisoft.com/thread/5753> |
|  |  |

### ArcGIS – keynotes to discuss

1. ArcGIS API – geoserver (**Web Map Tile Service WMTS**)
   1. Limited service, it provide other layer
   2. Map data provided
   3. 
2. ArcGIS API – openmaptile server
   1. Provide only basemap, can’t not publish other layer
   2. Need json data
   3. 

* Both server required PostgreSQL Database and high speed machine.
* Not match with tt231 storyboard map image

## OpenMapTileSever – Map (Basemap Layer)

### Install : OpenMapTileServer

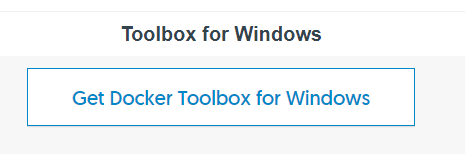
Map Server Name : OpenMapTiles Map Server

Location : <https://openmaptiles.com/server/#install>

Steps to install

* install Docker
* Run the OpenMapTiles Server
* Open and follow the web wizard

Install Docker

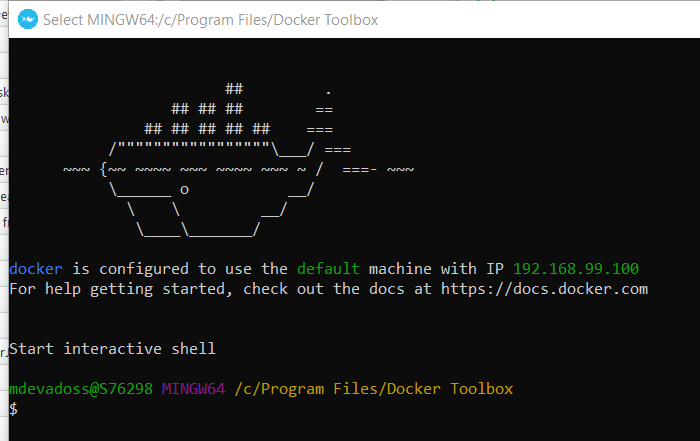


1. DockerToolbox.exe --- Run as administrator mode
2. kitematic (Alpha) --- Run as administrator mode

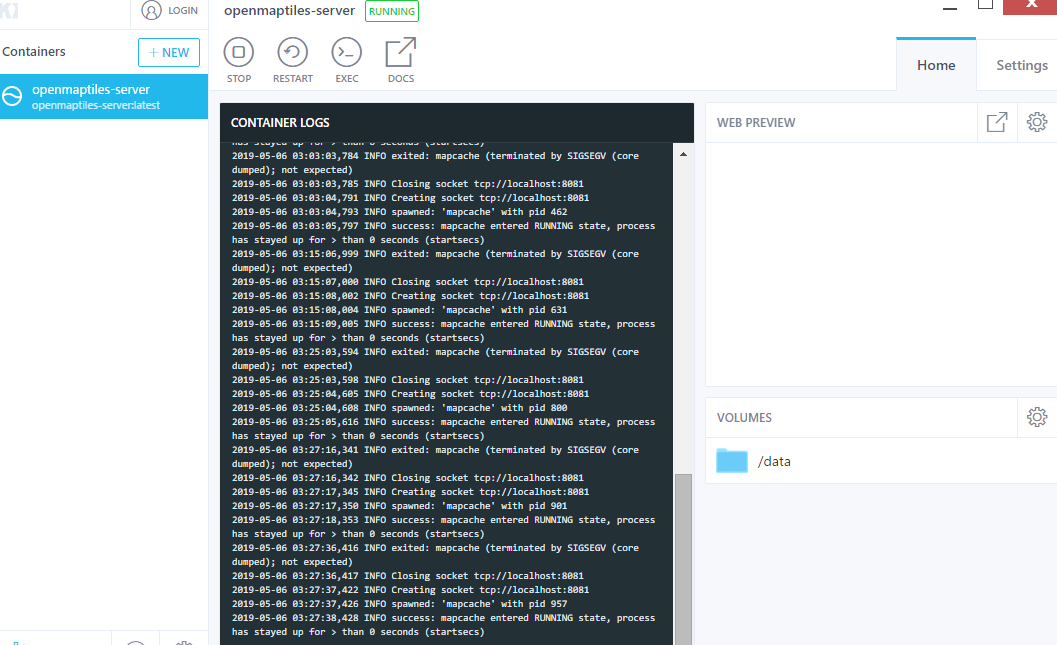
Choose for “OpenMapTiles server” download, “postgres sql” Download

**After install look for following apps and start docker and vm**

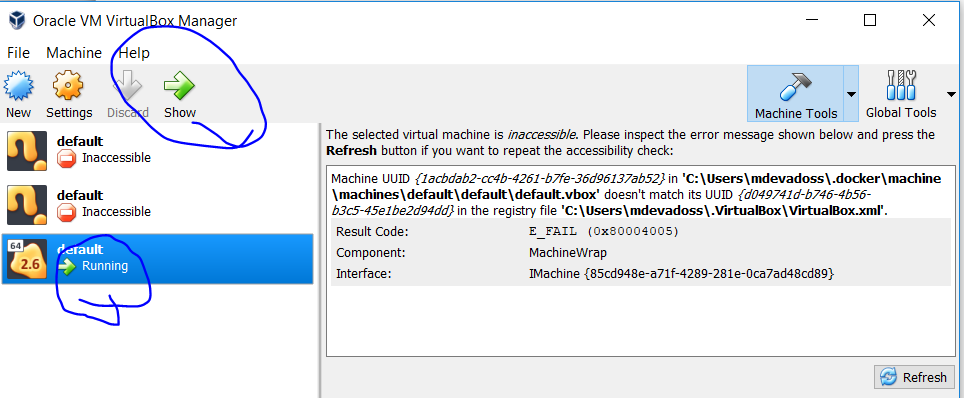
1. Docker QuickStart Terminal - start with administrator mode



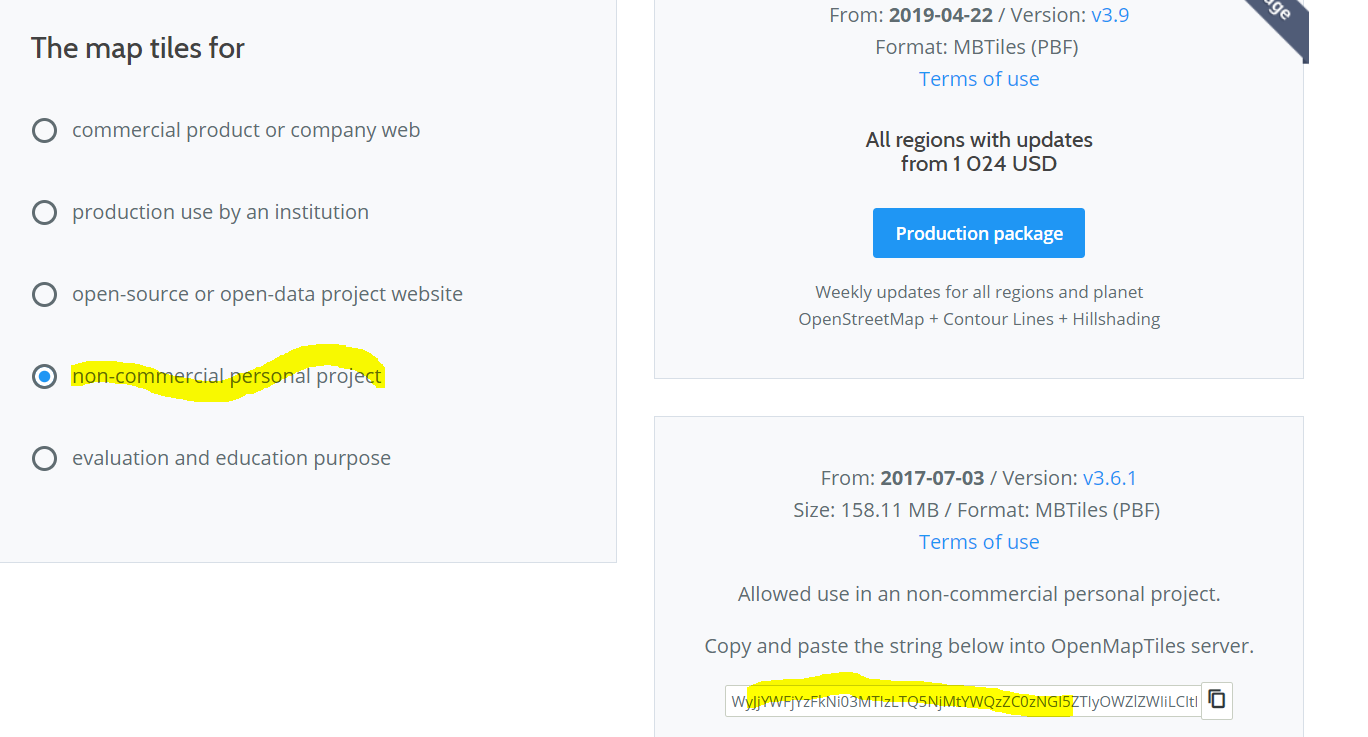
1. Kitematic



1. open a browser : <http://192.168.99.100:32769/>
2. First Time Oracle VM VirtualBox Manager - start with administrator mode



1. First Time - Choose country
2. Get Key – choosing Commercial option



1. Select the different map styles - Like… Dark Matter, Klokantech Basic, Positor, OSM Bright

**Oracle VM virtualBox location in local**

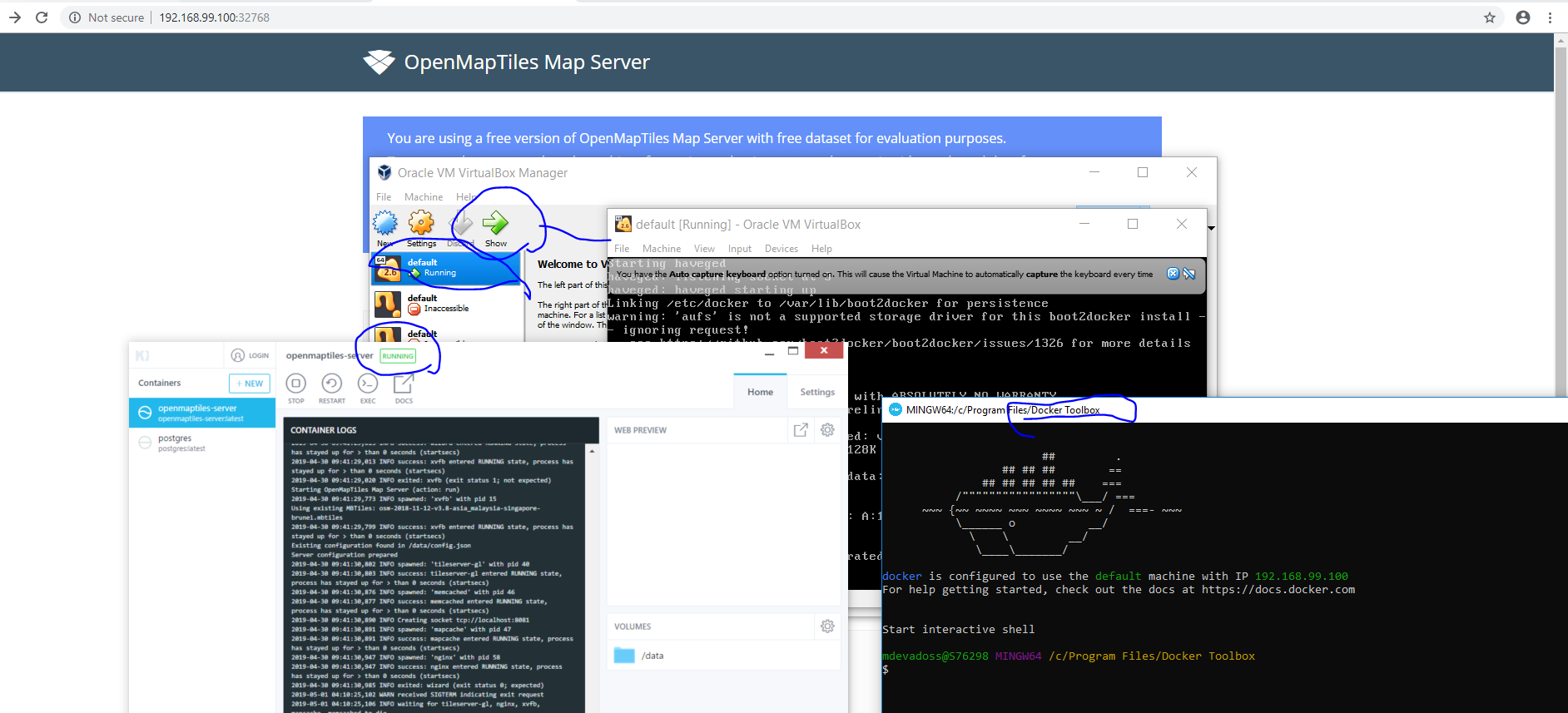
C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Oracle VM VirtualBox

Server **openmaptiles-server**  and **postgresSQL** DB location

C:\Users\mdevadoss\Documents\Kitematic

**Docker Quickstart Terminal & Kitematic (Alpha) Location**

C:\Users\mdevadoss\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Docker



### Run : OpenMapTileServer

1. Docker Quickstart terminal – run as administration mode
2. Kitematic (Alpha) – run as administration mode

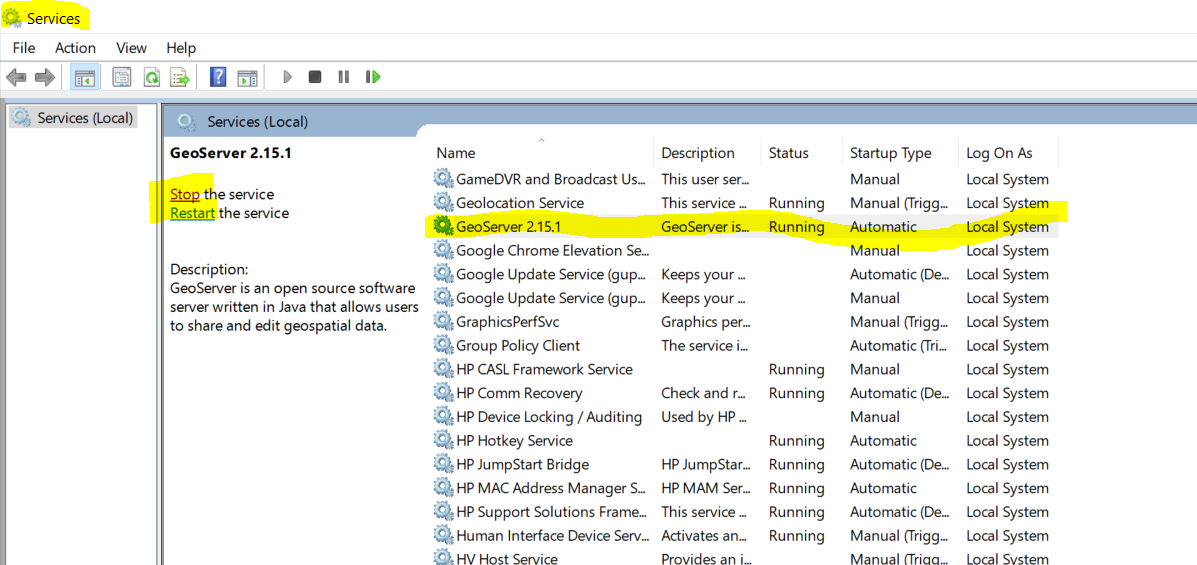
## GeoServer – arcgis map (Additional Layer)

### Install : Geoserver

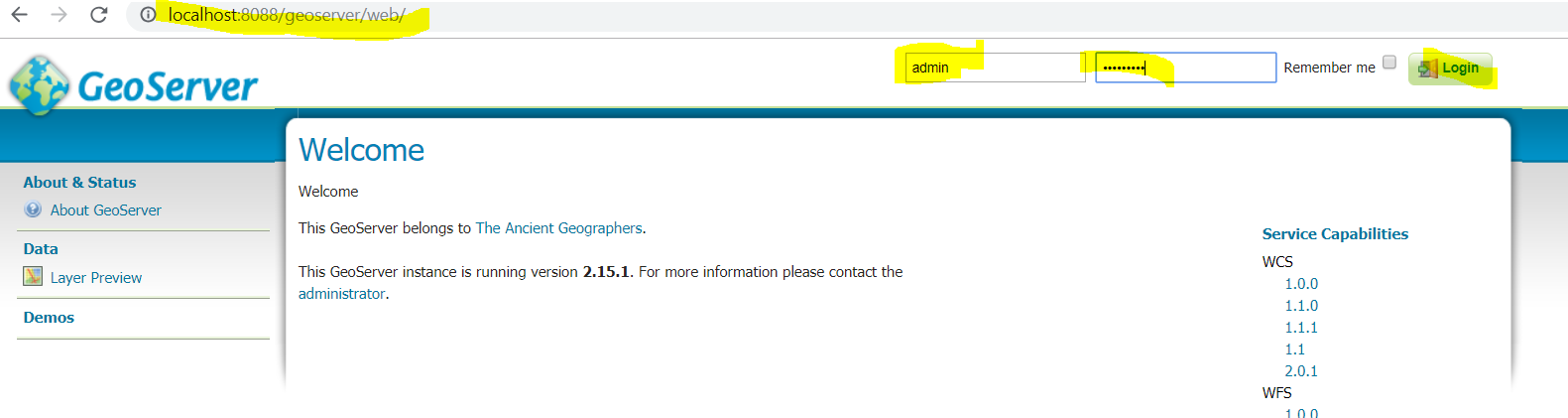
1. Jre 1.8
2. Change Port No to : 8088

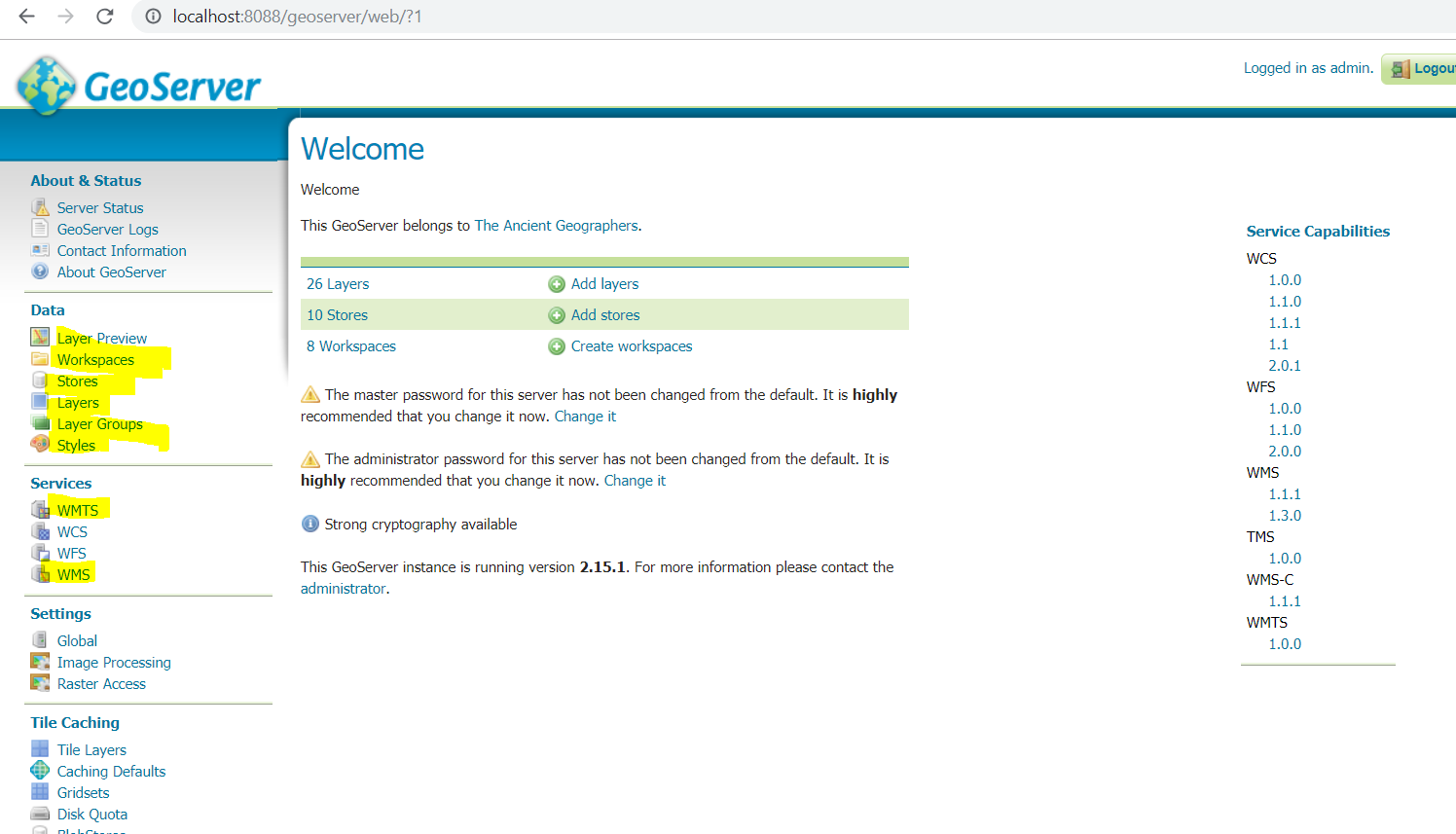
### Start : Geoserver

1. Start Geo Server or
2. Look for “services” from start search
   1. Look for GeoServer2.15.1 and start



1. Launch geoserver basic page “Geoserver Web Admin Page”
   1. <http://localhost:8088/geoserver/web/>
   2. Uname / Password – admin/geoserver





WMTS services for – Basemap (openmaptile server)

WMS services for – Additional layer (geoserver)

### GEO Community Link

<https://community.esri.com/welcome>

### Geo Server SLD

Geo Server SLD

Working with <StyledLayerDescriptor>

<https://docs.geoserver.org/stable/en/user/styling/sld/cookbook/>

|  |
| --- |
| <se:Rule>  <se:Name>cte heavy traffic</se:Name>  <se:Description>  <se:Title>cte heavy traffic</se:Title>  </se:Description>  <ogc:Filter xmlns:ogc="http://www.opengis.net/ogc">  <ogc:PropertyIsEqualTo>  <ogc:PropertyName>objectid</ogc:PropertyName>  <ogc:Literal>343</ogc:Literal>  </ogc:PropertyIsEqualTo>  </ogc:Filter>  <se:LineSymbolizer>  <se:Stroke>  <se:SvgParameter name="stroke">#ED1C24</se:SvgParameter>  <se:SvgParameter name="stroke-width">2</se:SvgParameter>  <se:SvgParameter name="stroke-linejoin">bevel</se:SvgParameter>  <se:SvgParameter name="stroke-linecap">square</se:SvgParameter>  </se:Stroke>  </se:LineSymbolizer>  </se:Rule>  <se:Rule>  <se:Name>cte heavy traffic</se:Name>  <se:Description>  <se:Title>cte heavy traffic</se:Title>  </se:Description>  <ogc:Filter xmlns:ogc="http://www.opengis.net/ogc">  <ogc:PropertyIsEqualTo>  <ogc:PropertyName>objectid</ogc:PropertyName>  <ogc:Literal>345</ogc:Literal>  </ogc:PropertyIsEqualTo>  </ogc:Filter>  <se:LineSymbolizer>  <se:Stroke>  <se:SvgParameter name="stroke">#ea5bc4</se:SvgParameter>  <se:SvgParameter name="stroke-width">2</se:SvgParameter>  <se:SvgParameter name="stroke-linejoin">bevel</se:SvgParameter>  <se:SvgParameter name="stroke-linecap">square</se:SvgParameter>  </se:Stroke>  </se:LineSymbolizer>  </se:Rule> |
|  |

**Create fixed circle**

<https://developers.arcgis.com/javascript/latest/sample-code/sandbox/index.html?sample=intro-graphics>

## PostgreSQL

### Install : PostgreSQL

**Postgres database for GIS**

1. Run “postgis-bundle-pg94x64-setup-2.5.1-1”
2. Uname / password : postgres / postgres
3. Default Port : 5432

### Start : PostgreSQL

1. Open “pgAdmin III”



**GIS DataBase is “postgis\_25\_sample”**

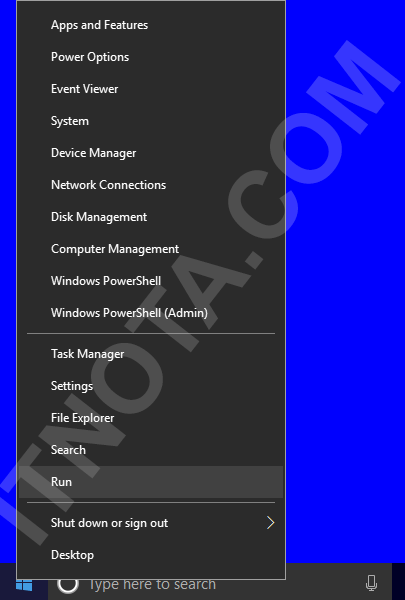
**Openmaptile DataBase is “postgres”**

# IIS Server installation

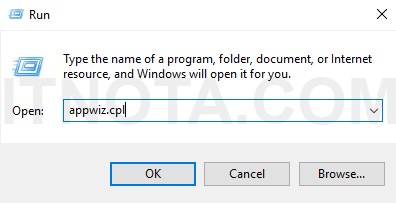
## How to Install IIS on Windows 10

Although IIS is included in every installation of Windows 10, it’s not turned on by default. Here’s a way to install IIS on Windows 10.

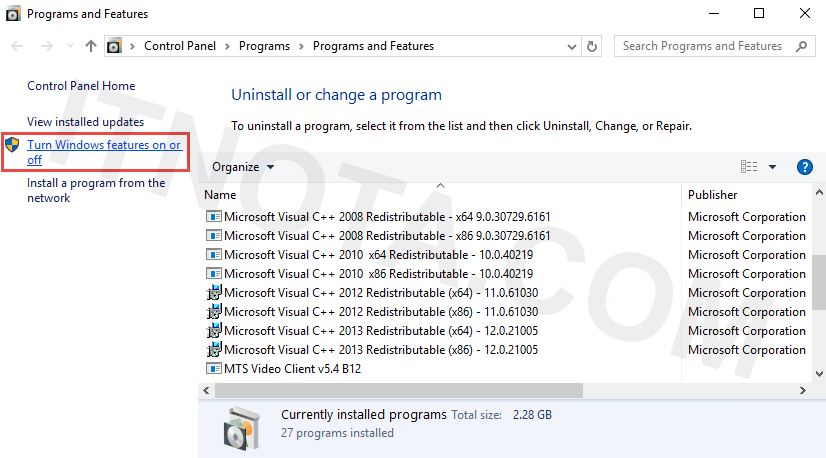
1. Right-click on the Windows button on the bottom-left corner and select **Run**



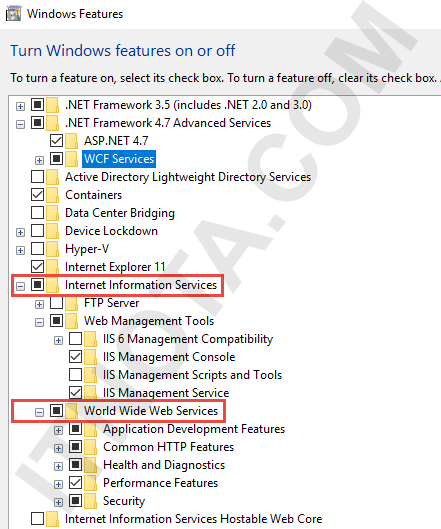
1. In the **Run** dialog box, type **appwiz.cpl** and press **ENTER**.



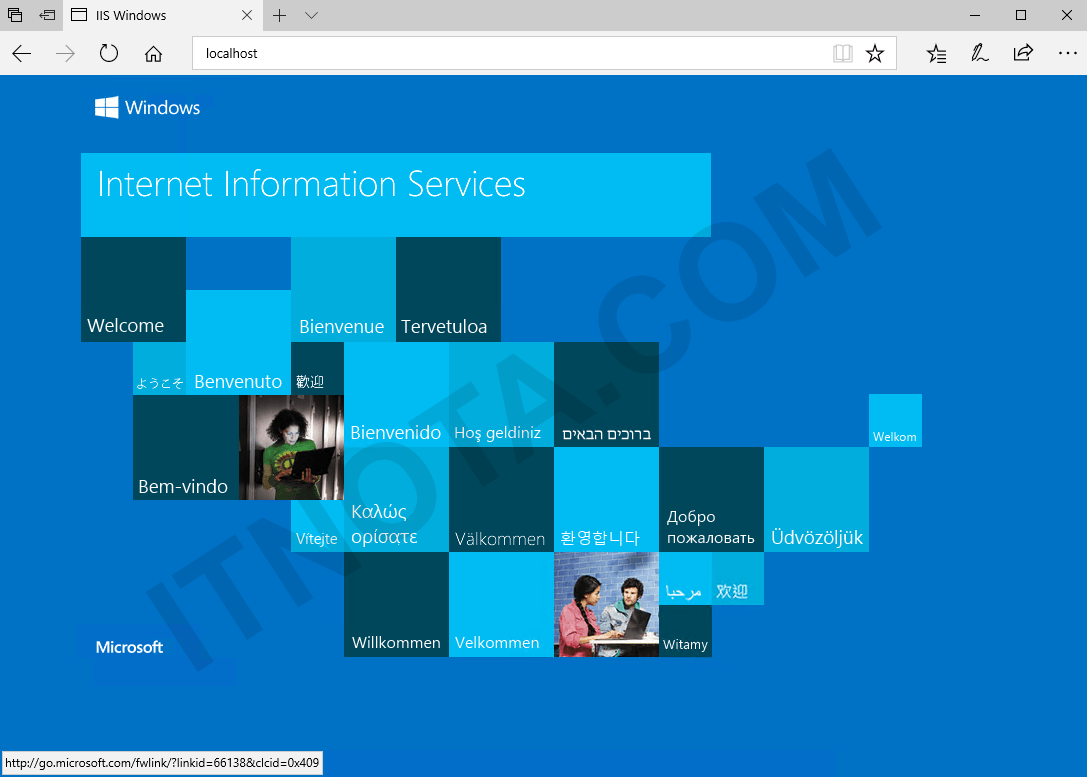
1. As soon as a new window called **Programs and Features** is opened, click on the link **Turn Windows features on or off**.



1. Click on the **Internet Information Services** checkbox. By default it will install all you need to host a website. However you might want to check some other components that you might need as well. Once done, click **OK** and **Close** when it says “Windows completed the requested changes.”



1. Now open your browser and type in **localhost** and press **ENTER**. You should see a default web page is rendered in your browser.



# D3 js (Data Driven Documents)

Useful Sample Links

## Pie and Bar Chart

|  |  |
| --- | --- |
| **Example**   * **Create pie and bar chart** * **Data changing when you change the pie** | <http://bl.ocks.org/diethardsteiner/3287802> |
| **Data from .CVS format** | data = (await d3.csv("https://gist.githubusercontent.com/mbostock/81aa27912ad9b1ed577016797a780b2c/raw/3a807eb0cbb0f5904053ac2f9edf765e2f87a2f5/**alphabet.csv**", ({letter, frequency}) => ({name: letter, value: +frequency}))).sort((a, b) => b.value - a.value) |
| **Bar Chart** | <https://observablehq.com/@d3/horizontal-bar-chart> |
| **Basic D3 Chart like** | <https://www.d3-graph-gallery.com/intro_d3js.html>  <https://www.d3-graph-gallery.com/graph/shape.html> |
| **Videa for bar chart** | <https://www.youtube.com/watch?v=8TBh5ghRZrI> |

# Angular

## Angular Material

|  |  |
| --- | --- |
| Angular Material | <https://material.angular.io/guide/getting-started> |
|  | <https://material.angular.io/components/menu/overview> |
| NPM Table Design | <https://www.npmjs.com/package/angular-data-table> |
|  |  |

## Angular 6

Angular 6 through in CLI

CLI (Command Line Interface)

1. Check for angular Command prompt

> npm –v (If not existing the install NodeJS)

> npm –v

**Install Angular Client**

2. Use NPM to install the Angular CLI

> npm install –g @angular/cli - INSTALL

> ng –v - provide the version number 6.0.7

**Create a new project**

3. > ng new ng6-proj - - style=scss --routine –

Call angular CLI use – ng

One of the many commands we can issue to the CLI

Project name also a folder name client will create - ng-6proj

Optional flags are - - style=scss and - - routing

- - style-scss client generate a project that has Sass enabled (by default CSS is used)

- - routing Project has different page URL – adding this flag to create touting file

**To check available comments**

ng

**After client generated goto client folder**

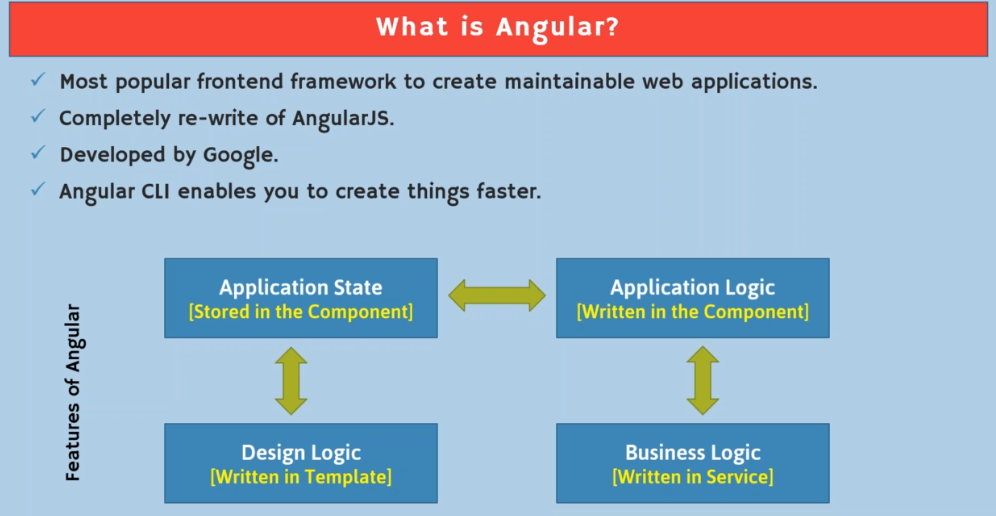
> cd ng6-proj

**To serve the project to the browser**

> ng serve -o

-o flag tells the CLI launch your browser with the project. It will automatically live reload.

## Angular 8



Application State

* Data presented to the user (or)
* Entered by the user
* Like grid display to edit or add.
* States are stored in the form of Array or Property
* Code written in the component

Design Logic

* Html logic to describe the view to present data to the user
* Code written in template

Application Logic

* Programming logic supply essential design logic and respond to the user event

Like click and double click

* Code written in the component)

Business Logic

* Programming logic which is involved in fetching data from the datasources
* performing validation and other functionality
* code written in the service

## Angular 7

**SPA – Single Page Application**

# Boostrap

|  |  |
| --- | --- |
| Glyphicon Image  1. Include the <href> to HTML File 2. Add css code to CSS file 3. Add <div> tag to HTML file | **.CSS**  /\* glyphicon image \*/  /\* style glyph \*/  *.inner-addon* *.glyphicon* {  position: *absolute*;  padding: *10px*;  pointer-events: *none*;  }  /\* align glyph \*/  *.left-addon* *.glyphicon* { left: *0px*;}  *.right-addon* *.glyphicon* { right: *0px*;}  /\* add padding \*/  *.left-addon* **input** { padding-left: *30px*; }  *.right-addon* **input** { padding-right: *30px*; }  *.glyphicon* {  font-size: *25px*;  }  /\* end of glyphicon image \*/  **.html**  <link href="//netdna.bootstrapcdn.com/bootstrap/3.0.0/css/bootstrap-glyphicons.css" rel="stylesheet">  <div class="inner-addon left-addon" style="color:#C8CFF4;">  <i class="glyphicon glyphicon-search" ></i>  <input type="password" class="resizedTextbox" id="inputPassword" placeholder="\*\*\*\*\*\*\*\*\*" required>  </div> |
| Textbox padding **padding: 12px 40px;**  “12px” **top to bottom**  “40p**” left to right** | input[type=text] {  width: 100%;  padding: 12px 40px;  margin: 8px 0;  box-sizing: border-box;  }  <input type="text" id="fname" name="fname">  **(Or)**  <input type="password" style="padding: 4px 50px;" class="resizedTextbox" id="inputPassword" placeholder="\*\*\*\*\*\*\*\*\*" required>  So text started from the top12PX from the left 40px |

*"accordion2" ,*

Glyphicon

|  |  |
| --- | --- |
| Table background | <style>  **table.example-table { background: url("/wp-content/uploads/wov.png");**  **/\* image courtesy of subtlepatterns.com \*/**  **}**  </style>  <table class="**example-table**"> <tr><td>First column</td><td>Second column</td><td>Third column</td></tr> <tr><td>First column</td><td>Second column</td><td>Third column</td></tr> <tr><td>First column</td><td>Second column</td><td>Third column</td></tr> </table>  **(or)**  <table **background="/wp-content/uploads/wov.png**"> <tr><td>First column</td><td>Second column</td><td>Third column</td></tr> <tr><td>First column</td><td>Second column</td><td>Third column</td></tr> <tr><td>First column</td><td>Second column</td><td>Third column</td></tr> </table> |

<i class="glyphicon glyphicon-search" ></i>

# Dockers

1. Docker is a software container platform, A software nothing but a group of frontend component, backend component, database, servers, libraires.

2. Self contained space for applications to run

3. run application (like php, sql, html etc)

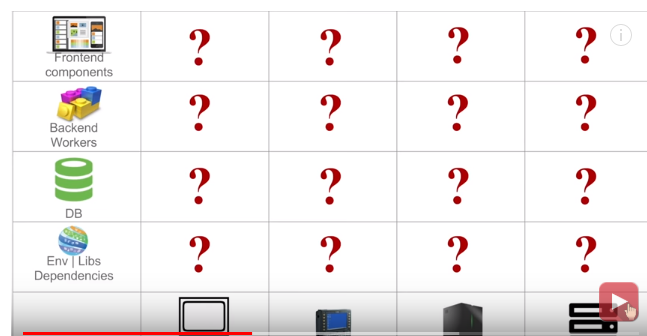
4. Structure and stability

5. It comes in the deployment phase.

6. Application runs on developer machine but not on the test machine. Docker solve this issue.

7. Need to check all the software component works in different hardware components or not

Doctor will fast to deploy and run applications by using containers

# DBeaver 6.1

You can turn on/off the right panels by pressing F7

In Data Editor, press Ctrl+F to search for data in the current table.

To execute the selected SQL expression and print the results use the following shortcut: Ctrl+Alt+'

To run the current SQL script use the following shortcut: Alt+X

To run the current SQL script use the following shortcut: Alt+X

To customize the toolbar go to Window -> Customize Perspective -> Toolbar Visibility tab.

# Spring boot and rest service

<https://dzone.com/articles/spring-boot-restful-web-service-complete-example>

SpringSource Tool Suite (**STS**)

# Data Fusion

## What does *Data Fusion* mean?

Data fusion is the process of getting data from multiple sources in order to build more sophisticated models and understand more about a project. It often means getting combined data on a single subject and combining it for central analysis.