Documentation

- 1. Login: (email and password) using the users' email to distinguish the normal employee and admin
- 2. Two types of user: normal employee: using the html file: index_employee

 Admin: using the html file: index_admin
- 3. functions of normal employee: only have the functions of view modules (statistics about their usage) and watching the FAQ page.
- 4. functions of admin: have the functions of view modules, watching FAQ page, do the settings of modules (add new modules or delete modules)
- 5. Simple introduction about modules adding

The code of functions of creating charts are stored in the chart.js document. In order to add new modules into this website, the functions of these modules should be written in the chart.js document and the array of this modules should be imported from database. We do not have database right now, so we just write the array in modules. After that, some JavaScript codes about the id "add1" "add2" need to be written. When click "#add1", a new box which has class ". box" ". box1" is created and the html codes of this module are appended into this new box and do the function that draw this module.

6. AAA_module: Handles the authorization and the session variables

1.Login page

```
{#{% extends "app/layout.html"%}#}
{% block header %}
    k rel="stylesheet" href="https://basecoat.dimensiondata.com/css/dd.basecoat.css">
    <link rel="stylesheet" href="https://basecoat.dimensiondata.com/examples/css/minimal-</pre>
layout.css">
    link rel="stylesheet" href="https://basecoat.dimensiondata.com/examples/css/login-
register.css">
    <meta charset="utf-8">
    <meta http-equiv="x-ua-compatible" content="ie=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Login</title>
    link rel="stylesheet"
href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,300i,400,400i,700,700i,90
0.900i">
    <meta name="application-name" content="Dimension Data">
    link rel="apple-touch-icon-precomposed" sizes="144x144"
href="https://basecoat.cdn.dimensiondata.com/latest/img/favicon/apple-touch-icon-
144x144. png" />
    link rel="icon" type="image/png"
href="https://basecoat.cdn.dimensiondata.com/latest/img/favicon/favicon-32x32.png"
sizes="32x32" />
```

```
link rel="icon" type="image/png"
href="https://basecoat.cdn.dimensiondata.com/latest/img/favicon/favicon-16x16.png"
sizes="16x16" />
    link rel="icon" type="image/png"
href="https://basecoat.cdn.dimensiondata.com/latest/img/favicon/favicon-128.png"
sizes="128x128" />
    <meta name="msapplication-TileColor" content="#FFFFFF" />
    <meta name="msapplication-TileImage"</pre>
content="https://basecoat.cdn.dimensiondata.com/latest/img/favicon/mstile-144x144.png"/>
{% endblock %}
{% block pagecontent %}
    <div class="minimal-layout">
      <header class="header">
        <div class="horizontal-logo horizontal-logo-solid">
          <a href="#" title="Dimension Data" class="logo-image">
          </a>
          <div class="logo-title three-lines">
            <span>login</span>
          </div>
        </div>
      </header>
      <div class="page-wrapper">
        <div class="container">
          <div class="row">
            <div class="col-xs-12 col-md-9 col-lg-7 col-center">
              <div class="panel" data-panel="login">
                <div class="panel-heading text-center">
                  <h1 class="no-margin-bottom">Login</h1>
                </div>
                <div class="panel-body">
                  <div class="row">
                    <div class="col-xs-12">
                      <!-- form -->
                      <form action ="{% url 'AAA' %}" method="POST">
                        {% csrf_token %}
```

```
<div class="row">
                         <!-- Email -->
                         <div class="col-xs-12">
                           <div class="form-group has-icon">
                             <label class="control-label" for="email">Email</label>
                            <input name = "email" type="text" placeholder="Enter your</pre>
email address" class="form-control" id="email" required>
                            <span class="form-control-feedback fa-user"></span>
                           </div>
                         </div>
                         <!-- Password -->
                         <div class="col-xs-12">
                           <div class="form-group has-icon has-password-toggle">
                            <label class="control-label"</pre>
for="loginPassword">Password</label>
                            <input name="password" type="password" placeholder="Enter</pre>
your password" class="form-control" id="loginPassword" required>
                            <span class="password-toggle"></span>
                            <span class="form-control-feedback fa-lock"></span>
                           </div>
                         </div>
                         <div class="col-xs-12">
                         </div>
                         <div class="col-xs-12 text-center">
                           <button type="submit" class="btn btn-block btn-primary bottom-</pre>
gutter">Submit</button>
                         </div>
                       </div>
                     </form>
                   </div>
                 </div>
               </div>
             </div>
{% endblock %}
{% block footer %}
     <footer class="footer">
       <div class="row">
         <div class="col-xs-12">
           COPYRIGHT © placeholder.
```

```
<a href="#">Privacy</a>
              \(\alpha\) href="\pm">Terms of use</a>
              <a href="#">Cookie policy</a>
            </u1>
          </div>
        </div>
      </footer>
     </div>
{% endblock %}
{% block scripts %}
    <script
src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.4/jquery.min.js"></script>
    <script src="https://basecoat.dimensiondata.com/js/dd.basecoat.js"></script>
    <script src="https://basecoat.dimensiondata.com/examples/js/example-</pre>
validation.js"></script>
    <script src="https://basecoat.dimensiondata.com/examples/js/login-</pre>
register.js"></script>
    <script src="https://basecoat.dimensiondata.com/js/outdated-browser.js"></script>
{% endblock %}
2. index_employee page
{% load static %}
<!DOCTYPE html>
<html class="desktop-menu-open" lang="en">
  <head>
    <meta charset="utf-8">
    <meta http-equiv="x-ua-compatible" content="ie=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
    <title>index_admin</title>
    <!-- meta name="description" content="Description of the page less than 150 characters"
--> <!-- meta description-->
    <meta name="theme-color" content="#ffffff">
    link rel="stylesheet"
href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,300i,400,400i,700,700i">
    link rel="stylesheet"
href="https://basecoat.cdn.dimensiondata.com/2.0.0/css/dd.basecoat.min.css">
    link rel="stylesheet" href="static/app/content/nav.css" >
   <!-- main -->
    <script
src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.4/jquery.min.js"></script>
```

The css file and js file are all in the 'static' document

```
<script src="static/app/scripts/dd.basecoat.js" ></script>
   <script defer src="static/app/scripts/outdated-browser.js"></script>
   <!-- chart -->
   <script src="static/app/scripts/charts.js"></script>
   <script src="static/app/scripts/functions.js"></script>
   <script src="https://cdn.bootcss.com/jquery/3.3.1/jquery.js"></script>
   <script src="static/app/scripts/echarts.js" type="text/javascript"></script>
 </head>
 <body>
   <div class="sticky-footer-layout desktop-menu-layout mobile-menu-layout">
     <!-- Site header -->
     <header class="site-header">
       <nav class="navbar navbar-fixed-top">
         <1i>>
             <a class="horizontal-logo" href="login.html" title="Return home">
              <div class="logo-image" title="Dimension Data"></div>
              <div class="logo-title"><span>lws<br>ITservices</pan></div>
            </a>
           Here are the nav
         codes.
                                                                                  Sign out links to
         login page.
                                                                                 User name links to
           class="dropdown hidden-mobile">
                                                                                 the email of users
              <a href="#" data-toggle="dropdown" role="button" aria-haspopup="true"</pre>
expanded="false" class="dropdown-toggle">
              <span class="fa fa-user"></span> {{ email }} <span class="caret"></span>
              </a>
             class="dropdown-menu">
              <a href="#">My account</a>
              role="separator" class="divider">
              <1i><a href="{% url 'login' %}">Sign out</a>
             </u1>
       </nav>
     </header>
     <div class="col-xs-2 side-bar top-gutter hidden-mobile">
```

```
<h1>1ws</h1>
       <h2>IT services</h2>
     </div>
     <!-- Page content -->
     <main class="page-wrapper top-gutter container">
       <!-- header datepicker -->
       <header class="top-gutter">
         class="container">
         Here are FAQ codes.
       </header>
                                                                    It links to another html file.
       <!-- boxes -->
                                                                      However, it haven not
       <div class="container bottom-gutter btn-area">
                                                                    connected to the database
                                                                     because we donot have
<!-- box Q&A -->
                                                                           database.
         <div class="col-sm-6 col-xs-12">
           <div class="box">
            \label{linear} $$ \a href="\{\% url 'faqpage' \%\}" type="button" class="btn btn-primary">Q&A</a>
          </div>
         </div>
       </div>
     </main>
     <!-- Site footer -->
     <footer class="footer">
       <div class="row">
         <div class="col-xs-12">
           © Copyright 2017. Dimension Data.
          \a href="#">Privacy</a>
            \(\alpha\) href="\pi">Terms of use</a>
            \(\alpha\) href="\pi">Cookie policy</a>
          </div>
       </div>
     </footer>
 </div>
 </body>
</html>
```

```
3. index_admin page
<!DOCTYPE html>
<html class="desktop-menu-open" lang="en">
    <meta charset="utf-8">
    <meta http-equiv="x-ua-compatible" content="ie=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no")</pre>
   <title>index_admin</title>
                                                                                    The css file and js file
    <!-- meta name="description" content="Description of the page less than 150 ch
                                                                                     are all in the 'static'
--> <!-- meta description-->
                                                                                         document
    <meta name="theme-color" content="#ffffff">
   link rel="stylesheet"
                                                                                   chart.js: codes about all
href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,300i,400,400i,70
                                                                                   the chart...
   link rel="stylesheet"
href="https://basecoat.cdn.dimensiondata.com/2.0.0/css/dd.basecoat.min.css">
                                                                                   function.js: codes about
   link rel="stylesheet" href="static/app/content/nav.css" >
                                                                                   functions of buttons:
   <!-- main -->
                                                                                   move box, add new
   <script
                                                                                   box, add new modules,
src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.4/jquery.min.js"></script>
                                                                                   delete modules.
    <script src="static/app/scripts/dd.basecoat.js" ></script>
    <script defer src="static/app/scripts/outdated-browser.js"></script>
                                                                                   echart.js: basic codes of
    <!-- chart -->
                                                                                   chart.js.
   <script src="static/app/scripts/charts.js"></script>
   <script src="static/app/scripts/functions.js"></script>
   <script src="https://cdn.bootcss.com/jquery/3.3.1/jquery.js"></script>
   <script src="static/app/scripts/echarts.js" type="text/javascript"></script>
  </head>
  <body>
   <div class="sticky-footer-layout desktop-menu-layout mobile-menu-layout">
      <!-- Site header -->
      <header class="site-header">
        <nav class="navbar navbar-fixed-top">
          <1i>>
             <a class="horizontal-logo" href="login.html" title="Return home">
               <div class="logo-image" title="Dimension Data"></div>
               <div class="logo-title"><span>lws<br>ITservices</psen></div>
             </a>
```

```
<a href="#" data-toggle="dropdown" role="button" aria-haspopup="true" aria-</pre>
expanded="false" class="dropdown-toggle">
             <span class="fa fa-user"></span> {{ email }} <span class="caret"></span>
             </a>
            class="dropdown-menu">
             \(\frac{1i}{a}\) href="\#">My account \(\frac{a}{a}\)\(\frac{1i}{}\)
             role="separator" class="divider">
             <1i><a href="{% url 'login' %}">Sign out</a></1i>
            <!--li class="mobile-menu-toggle hidden-desktop" data-toggle="mobile-menu"
title="Mobile menu">
           fa-bars"></i></button>
          </1i-->
           id="setting-top" class="fr hidden-desktop">
            <button type="button" class="btn btn-block btn-primary"><span class="fa fa-</pre>
gear"></span></button>
          </u1>
      </nav>
     <div class="col-xs-2 side-bar top-gutter hidden-mobile">
      <h1>1ws</h1>
      <h2>IT services</h2>
     </div>
     <!-- Page content -->
     <main class="page-wrapper top-gutter container">
       <!-- header datepicker -->
      <header class="top-gutter">
        id="setting" class="fr">
            <button type="button" class="btn btn-block btn-primary"><span class="fa fa-</pre>
gear"></span>settings</button>
```

```
</header>
        <!-- boxes -->
        <div class="container bottom-gutter btn-area">
          <!-- box-add -->
          <div class="col-sm-6 col-xs-12 myhide">
            <div id="box-add" class="box">
              <div class="col-xs-12 col-sm-6 col-lg-3 bottom-gutter add">
                <!-- <button type="button" class="box-add btn btn-primary">Add new
\mathit{chart} < \! / \mathit{button} \rangle \, - \!\!\! - \!\!\! - \!\!\! \rangle
                <!-- modal trigger -->
                data-target="#simpleDialogExample">
                  add new modules
                </button>
                <!-- modal code should be placed just before your closing <\!/body> tag -->
                <div class="modal fade" tabindex="-1" role="dialog"</pre>
id="simpleDialogExample">
                  <div class="modal-dialog modal-sm" role="document">
                    <div class="modal-content">
                      <div class="modal-header">
                        <h5 class="modal-title">Select backup server</h5>
                      </div>
                      <div class="modal-body">
                        ul class="btn-list">
                          <1i>>
                            <a href="#" data-dismiss="modal">
                              <span class="fa fa-server"></span>chart1
                              <button id="add1" class="btn-add fr">add</button>
                            </a>
                          <1i>>
                            <a href="#" data-dismiss="modal">
                              <span class="fa fa-server"></span>chart2
                              \( button id="add2" class="btn-add fr" \) add \( \langle \) button \( \rangle \)
                            </a>
                          <1i>>
                            <a href="#" data-dismiss="modal">
                              <span class="fa fa-server"></span>chart3
                              <button id="add3" class="btn-add fr">add</button>
                            </a>
```

```
</div>
                      <div class="modal-footer">
                        <!-- use the .btm-link-toolbar for the correct padding if the footer
only contains link buttons -->
                        <div class="btn-link-toolbar">
                          <button type="button" class="btn btn-link" data-</pre>
dismiss="modal">Cancel
                        </div>
                      </div>
                    </div>
                  </div>
                </div>
              </div>
            </div>
          </div>
          <!-- box Q&A -->
          <div class="col-sm-6 col-xs-12">
            <div class="box">
              \label{linear} $$ \a href="\{\% url 'faqpage' \%\}" type="button" class="btn btn-primary">Q&A</a> 
            </div>
          </div>
          <!-- new box -->
          <!-- <div class='col-sm-6 col-xs-12'>
            <div class='box box3'>
              <div class='box-header clearf'>
                <div class='title col-xs-3'>title</div>
                <a href='#' class='col-xs-1 changeCol'>
                    <span class='fa fa-pencil'></span>
                  <a href='#' class='col-xs-1 move'>
                   <span class='fa fa-th-large'></span>
                  <a href='#' class='col-xs-1 trash trash1'>
                   <span class='fa fa-trash'></span>
                  (/a)
                </u1>
              \langle /div \rangle
              <div class='clearf'>
                1i class='col-xs-3'>
```

```
<div class='heading'>Choose date</div>
               class='col-xs-4'>
                 <div class='form-group has-icon'>
                   <input type='month' name='' value=''></div>
                 ⟨/div⟩
             </div>
           </div> -->
       </div>
     </main>
     <!-- Site footer -->
     <footer class="footer">
       <div class="row">
         <div class="col-xs-12">
           © Copyright 2017. Dimension Data.
           \a href="#">Privacy</a>
             \(\mathbf{a}\) href="\#">Terms of use</\mathbf{a}\)</li>
             \(\mathbf{a}\) href="\pi" \(\mathbf{C}\)Cookie policy \(\lambda\) \(\mathbf{a}\) \(\lambda\) \(\lambda\)
           </u1>
         </div>
       </div>
     </footer>
     <!-- Mobile menu -->
     <!-- <div class="mobile-menu">
        <div class="content">
         <div class="scrollbars scrollbars-light">
           <nav class="drilldown">
             <div class="horizontal-logo" data-toggle="mobile-menu" title="Mobile</pre>
menu">
                   <div class="logo-image" title="Dimension Data"></div>
                   <div class="logo-title"><span>living<br>styleguide</span></div>
                 </div>
               <a href=".../html/homepage222.html">Home</a>
               \langle 1i \rangle
                 <a href="../html/personal-profile.html">Printer services usage</a>
               <1i>
```

6. AAA module

```
AAA_module

+ getEmailSessionVar(request): request
+setEmailSessionVar(request): request
+setAdminSessionVar(request, boolean): request
+isAdmin(request): boolean
+authenticate(request): [not implemented]
+authorize(request): boolean
+userHasBeenCleared(request): boolean
+clearSessionVars(request): Null
```