# ARCHITECTURAL DESIGN SUMMARY

V5.0

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**Preparation Data** : 12.02.2016

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# 1. BACKGROUND and COMPETENCY SUMMARY

Team leader and project management by Senior Software Architect Muhammet Turşak. (5th RAD Framework Development Project)

**Previous experience:**

1. Web Portal Development FW **[done]** (Web: ASP.NET)
2. RAD Framework **[done]** (Windows + Web)
3. RAD Form Studio **[done]** (Windows based Form Designer)

**DataSel** (as Software Architect and Team Leader)

4. PDFW.UI.SL (SL + WPF + WP7) **[done]** (Web: SL)
5. **PDFW.UI.HTML** **[in progress]** (Web: HTML5 + MVC)

# 2. MAJOR GOALS & CHALLENGES

- **Max Client Platform Entrance (HTML5, JS, CSS3)**
  - Web, Mobile (phones + tablets), Desktop (Windows 8 Store)
  - Win8 Store/Desktop Apps
  - Chrome OS + Chrome Browser Apps

- **Max Productivity**
  - min Developer (data-enabled comp., patterns, samples, etc.)
  - max Functionality (ready to use data-enabled components )
  - max Agility (ready comp., razor tem., base rep + webapis.)
  - max Flexibility (modularity, scheme system)
  - max Reusability (components, anguljar modules, services, apps)
  - max Extensibility (compoent based and enough abstraction)
  - max Sharability (shared backend, reusable components)
  - min TimeConsuming Problems (min js)
  - min JS Development (component based development)
  - max Visual Appearance quality (base style set)
  - low Coupling (MVVM)
  - high Cohesion (modularity)
  - max LifeTime of Products (HTML5)
  - source code sharing for mult. Platf. (HTML5, JS, CSS3)

- **Max Manageability**
  - max Maintainability (standart components)
  - max Modularity (angularjs modular infrastructure)
  - max Standardization (UI+Code) (std comp., std js dev., std css fws and css sets)

- **Max User Experience**
  - max Quality & Consistency (standard components - features, func., appr etc)
  - max Utilization of Animation & effects

- min Browser Compatibility Problems
  (standard frameworks: jQuery, angular, bootstrap etc.)
- same Experience on different platforms (HTML5 + JS FWs)
- max Customizability / Stability (separation of HTML + CSS + JS + Even Models)
- Multiple Screen Resolutions support(Bootstrap & Responsive Design)

# 3. CURRENT PROJECT STATUS

- **Ongoing Projects** : CQRE, AHIN, APM, ATTP

- **Projects to be used :**
  - All New Web Project development in Datasel
  - Mobile Client Project in Datasel
  - Development of full HTML5 version of Avicenna HIS

# 4. TECHNOLOGY STACK SUMMARY

## Backend Platform

- **Business & HTTP Comm. Layer**
  - ASP.NET MVC (Backend FW)
    - Controllers
    - Views
    - Razor
  - ASP.NET WebApi (Backend data fw)
- **Data Layer**
  - Entity Framework (ORM + Models)
  - LINQ (Query lang)
  - Repository Pattern (Complex an Reusable DAL and Data Man.)
  - MS SQL & T-SQL
- **Serialization**
  - JSON.NET (JSON Serialization)
- **Security**
  - oAuth 2.0
  - OWIN and External Account Authentication Support
  - AspNet Identity
  - Active Directory & LDAP Integration

# Frontend Platform

- **HTML5 + CSS3**

- **JS Frameworks**
  - AngularJS (Bindings + SPA Infr. + Comp. based dev + reusable lib dev)
  - JQuery (Core JS Env FW + DOM Manipulation)
  - Linqjs
  - requireJS (on-demand / async js file loading)

- **JS Components**
  - Bootstrap (Components)
  - AngularStrap (Components)
  - D3 / nvD3 (Charts and Data Visualization)

- **JS Tools**
  - Grunt (js fw file compilation & minification)

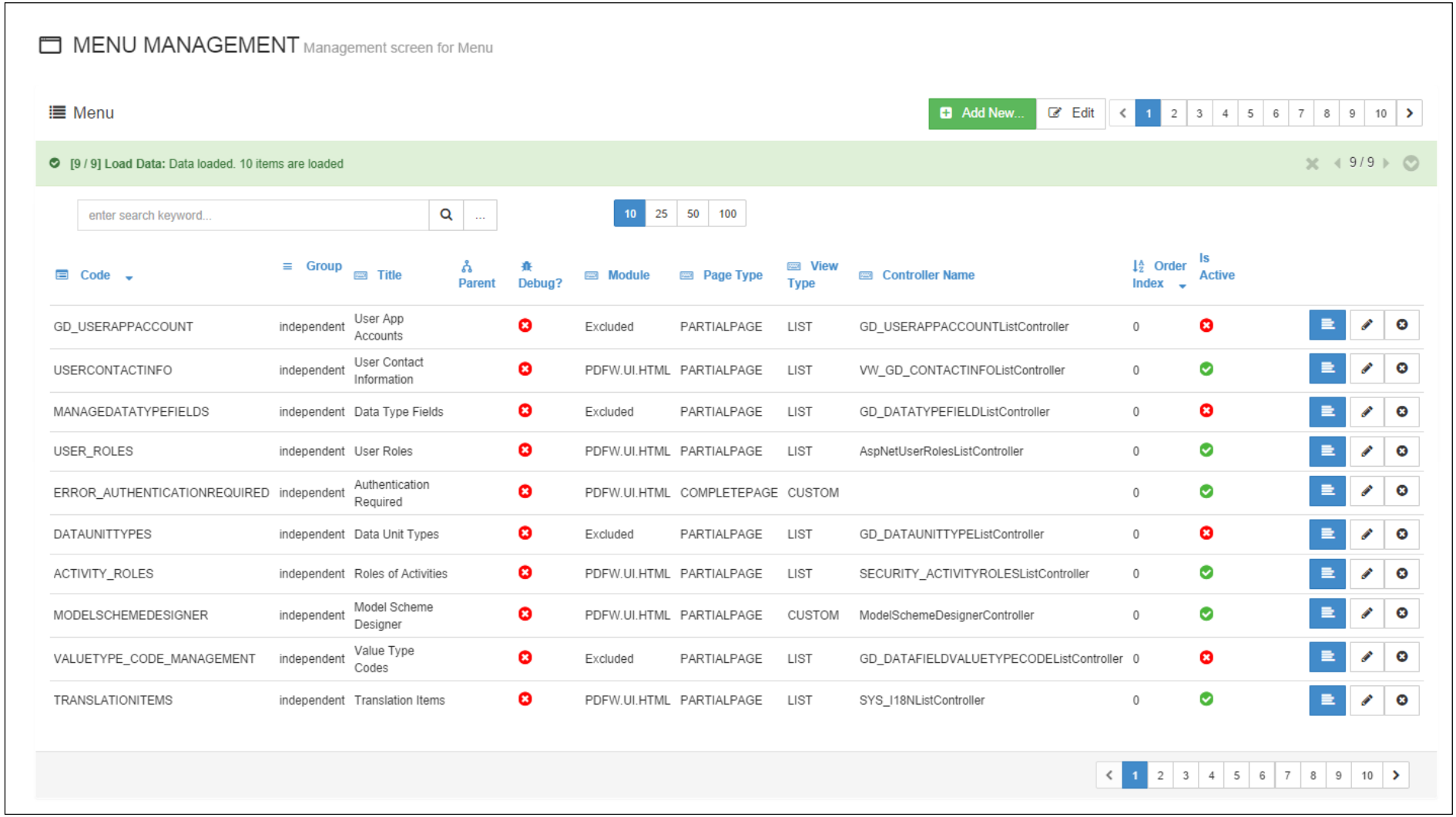
- **misc Components**
  - toaster
  - bselect
  - mutiselect
  - ...

- **CSS FWs**
  - Bootstrap (components)
  - animate.css (basic animations)

- **CSS Icon Libs**
  - glyphicons
  - fontawesome
  - fontello

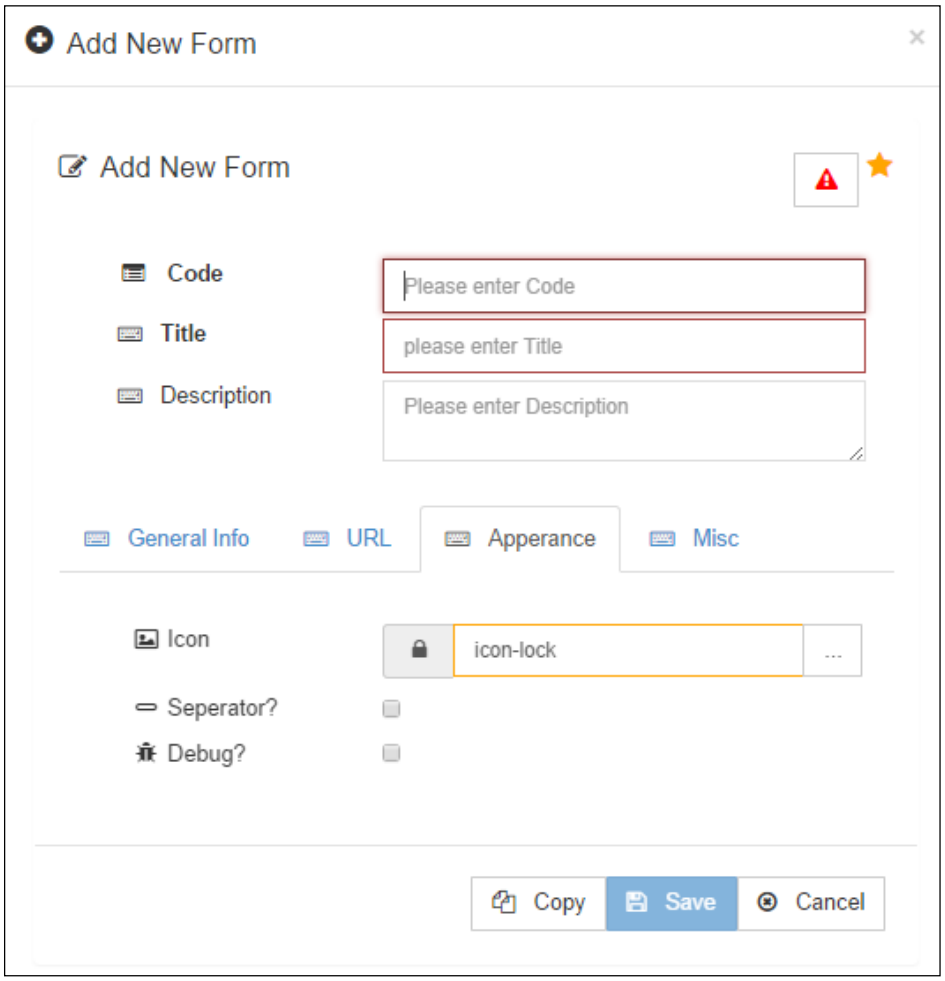
# 5. SCREENSHOOTS

# DGrid

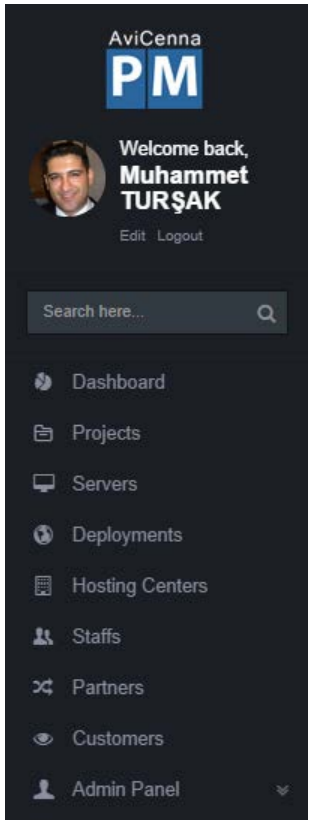


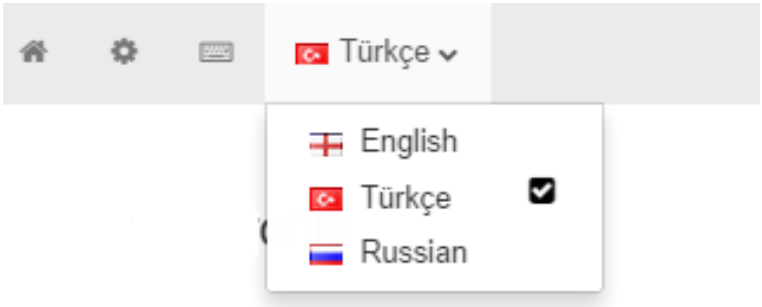

| Code | Group | Title | Parent | Debug? | Module | Page Type | View Type | Controller Name | Order Index | Is Active |
|---|---|---|---|---|---|---|---|---|---|---|
| GD_USERAPPACCOUNT | independent | User App Accounts | | | Excluded | PARTIALPAGE | LIST | GD_USERAPPACCOUNTListController | 0 | |
| USERCONTACTINFO | independent | User Contact Information | | | PDFW.UI.HTML | PARTIALPAGE | LIST | VW_GD_CONTACTINFOListController | 0 | |
| MANAGEDATATYPEFIELDS | independent | Data Type Fields | | | Excluded | PARTIALPAGE | LIST | GD_DATATYPEFIELDListController | 0 | |
| USER_ROLES | independent | User Roles | | | PDFW.UI.HTML | PARTIALPAGE | LIST | AspNetUserRolesListController | 0 | |
| ERROR_AUTHENTICATIONREQUIRED | independent | Authentication Required | | | PDFW.UI.HTML | COMPLETEPAGE | CUSTOM | | 0 | |
| DATAUNITTYPES | independent | Data Unit Types | | | Excluded | PARTIALPAGE | LIST | GD_DATAUNITTYPEListController | 0 | |
| ACTIVITY_ROLES | independent | Roles of Activities | | | PDFW.UI.HTML | PARTIALPAGE | LIST | SECURITY_ACTIVITYROLESListController | 0 | |
| MODELSCHEMEDESIGNER | independent | Model Scheme Designer | | | PDFW.UI.HTML | PARTIALPAGE | CUSTOM | ModelSchemeDesignerController | 0 | |
| VALUETYPE_CODE_MANAGEMENT | independent | Value Type Codes | | | Excluded | PARTIALPAGE | LIST | GD_DATAFIELDVALUETYPECODEListController | 0 | |
| TRANSLATIONITEMS | independent | Translation Items | | | PDFW.UI.HTML | PARTIALPAGE | LIST | SYS_I18NListController | 0 | |

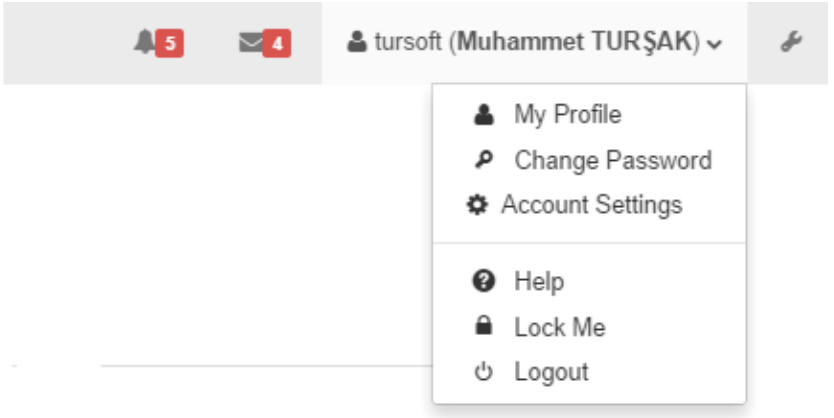
# DForm


Add New Form
Add New Form
Code
Please enter Code
Title
please enter Title
Description
Please enter Description
General Info
URL
Apperance
Misc
Icon
icon-lock
Seperator?
Debug?
Copy
Save
Cancel

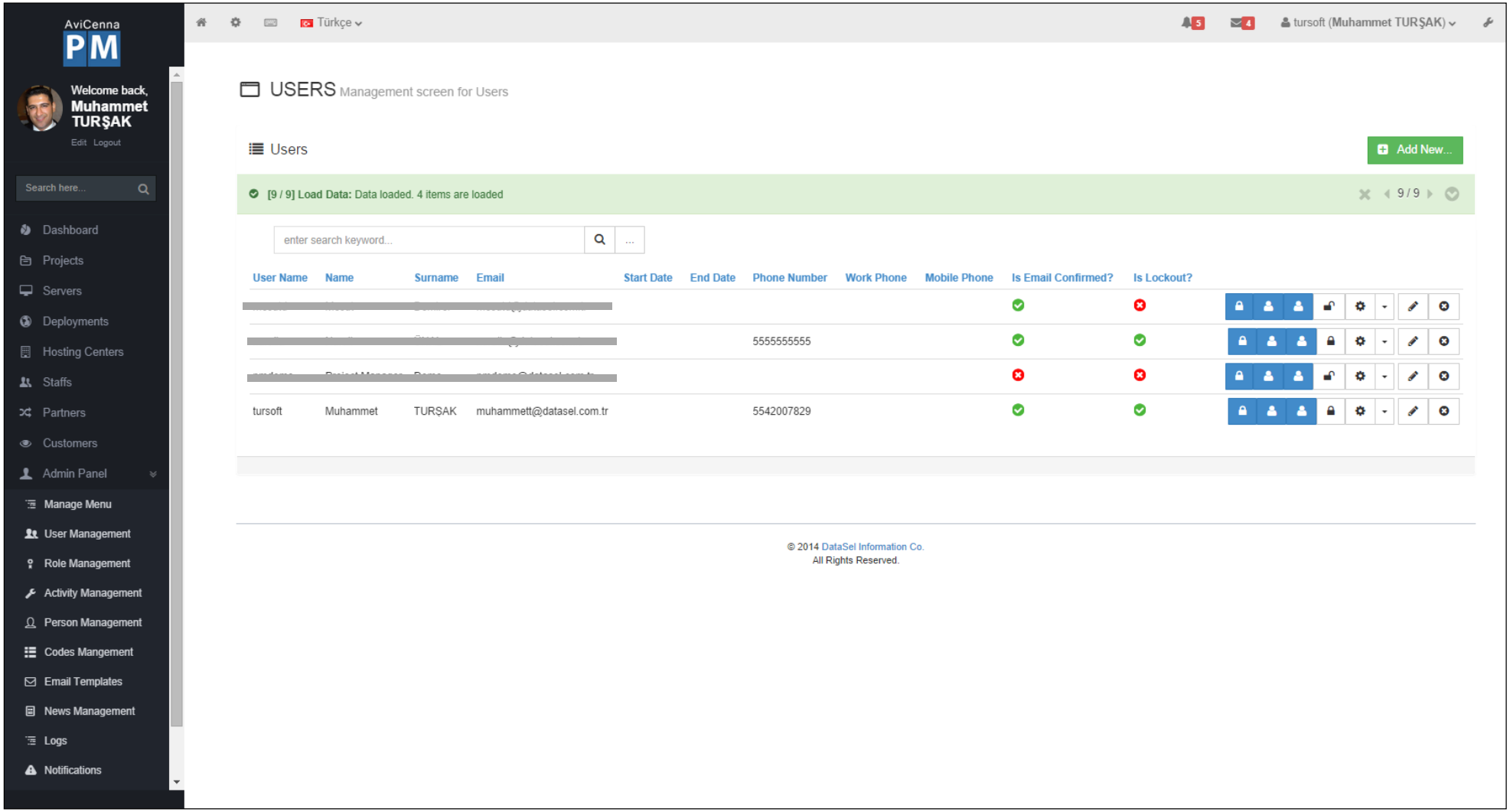
# Application Menus

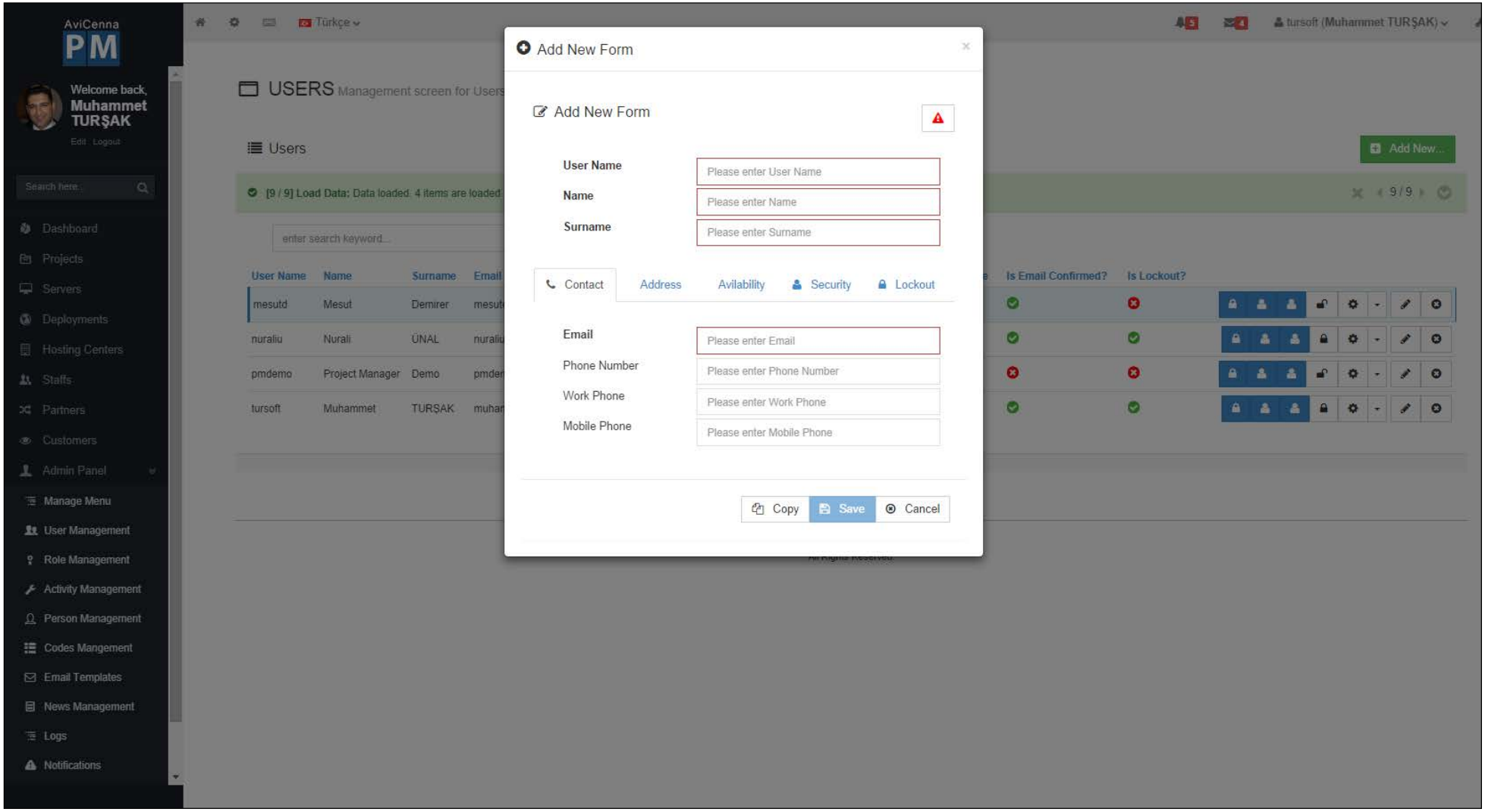


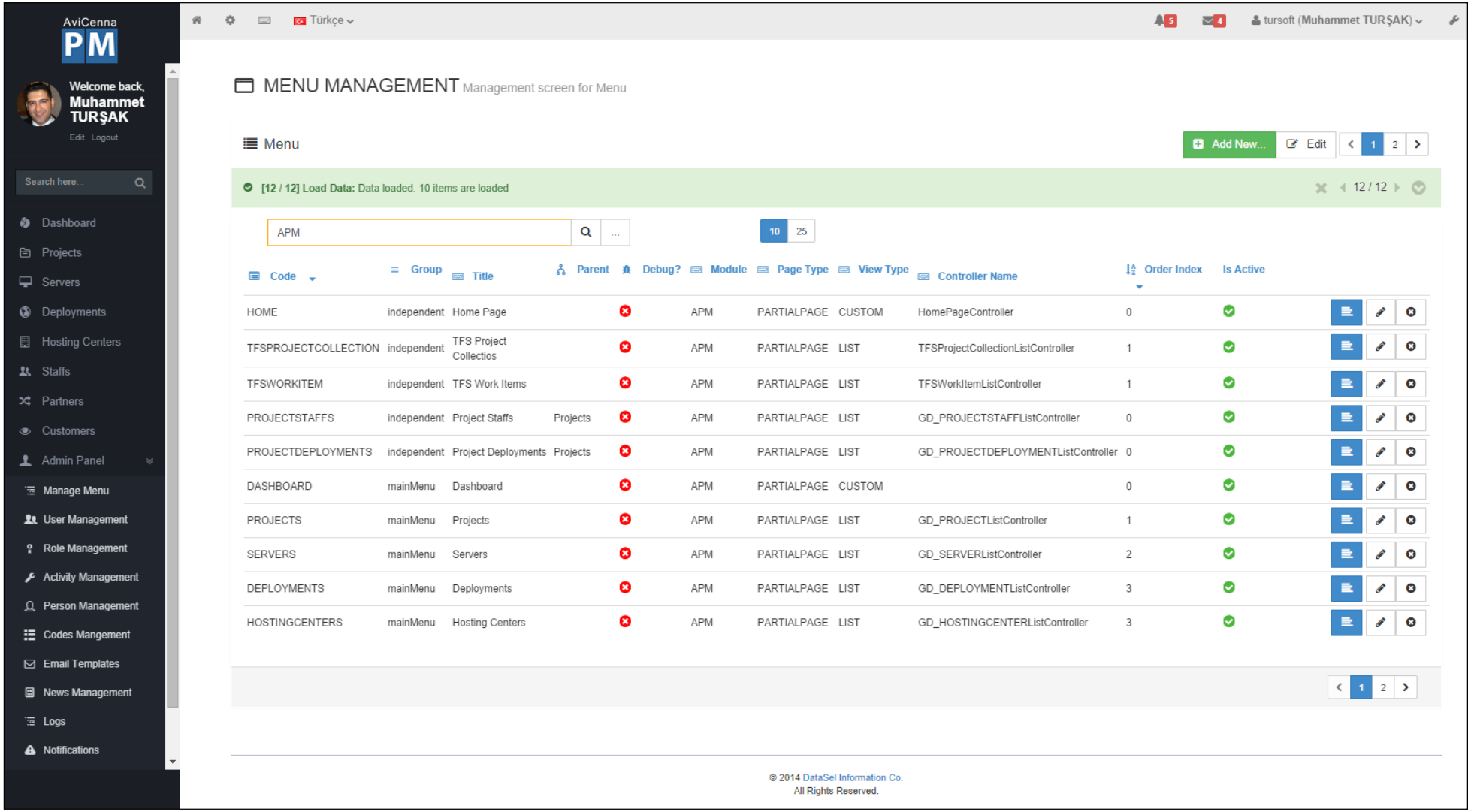



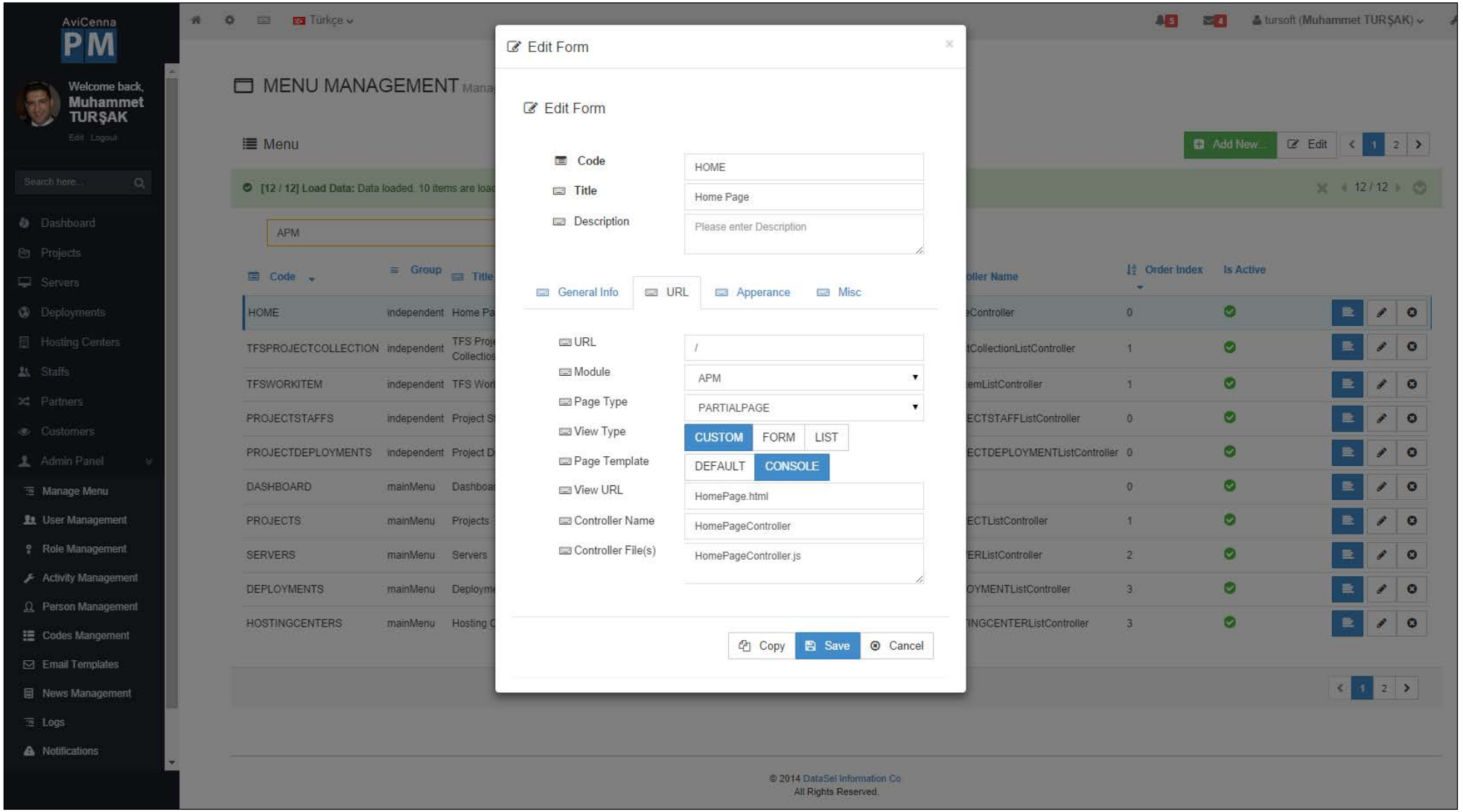
# Security Management Screens




AviCenna
PM
Welcome back,
Muhammet
TURŞAK
Edit · Logout
Search here...
Dashboard
Projects
Servers
Deployments
Hosting Centers
Staffs
Partners
Customers
Admin Panel
Manage Menu
User Management
Role Management
Activity Management
Person Management
Codes Mangement
Email Templates
News Management
Logs
Notifications
Türkçe
tursoft (Muhammet TURŞAK)
USERS Management screen for Users
Users
Add New...
[9 / 9] Load Data: Data loaded. 4 items are loaded.
enter search keyword...
9 / 9
User Name
Name
Surname
Email
Is Email Confirmed?
Is Lockout?
mesutd Mesut Demirer
nuraliu Nurali ÜNAL
pmdemo Project Manager Demo
tursoft Muhammet TURŞAK
Add New Form
Add New Form
User Name
Please enter User Name
Name
Please enter Name
Surname
Please enter Surname
Contact
Address
Avilability
Security
Lockout
Email
Please enter Email
Phone Number
Please enter Phone Number
Work Phone
Please enter Work Phone
Mobile Phone
Please enter Mobile Phone
Copy
Save
Cancel

# Menu Management




AviCenna PM
Welcome back, Muhammet TURŞAK
Edit Logout
Search here...
Dashboard
Projects
Servers
Deployments
Hosting Centers
Staffs
Partners
Customers
Admin Panel
Manage Menu
User Management
Role Management
Activity Management
Person Management
Codes Mangement
Email Templates
News Management
Logs
Notifications
Türkçe
tursoft (Muhammet TURŞAK)
MENU MANAGEMENT
Menu
Add New
Edit
[12 / 12] Load Data: Data loaded: 10 items are loaded
APM
Code
Group
Title
Order Index
Is Active
HOME independent Home Page
TFSPROJECTCOLLECTION independent
TFSWORKITEM independent
PROJECTSTAFFS independent
PROJECTDEPLOYMENTS independent
DASHBOARD mainMenu
PROJECTS mainMenu Projects
SERVERS mainMenu Servers
DEPLOYMENTS mainMenu
HOSTINGCENTERS mainMenu
Edit Form
Edit Form
Code HOME
Title Home Page
Description Please enter Description
General Info
URL
Apperance
Misc
URL /
Module APM
Page Type PARTIALPAGE
View Type CUSTOM FORM LIST
Page Template DEFAULT CONSOLE
View URL HomePage.html
Controller Name HomePageController
Controller File(s) HomePageController.js
Copy
Save
Cancel
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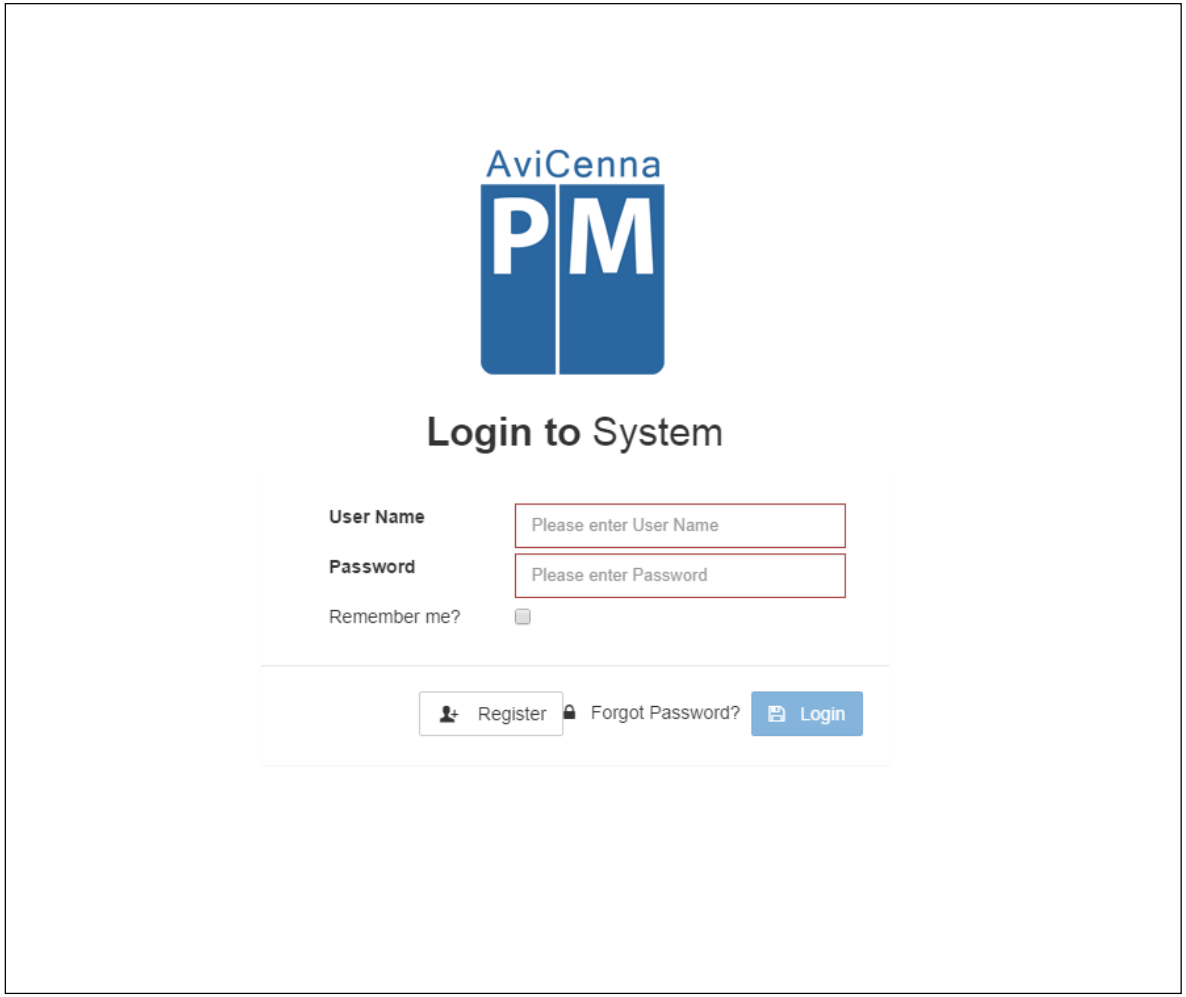
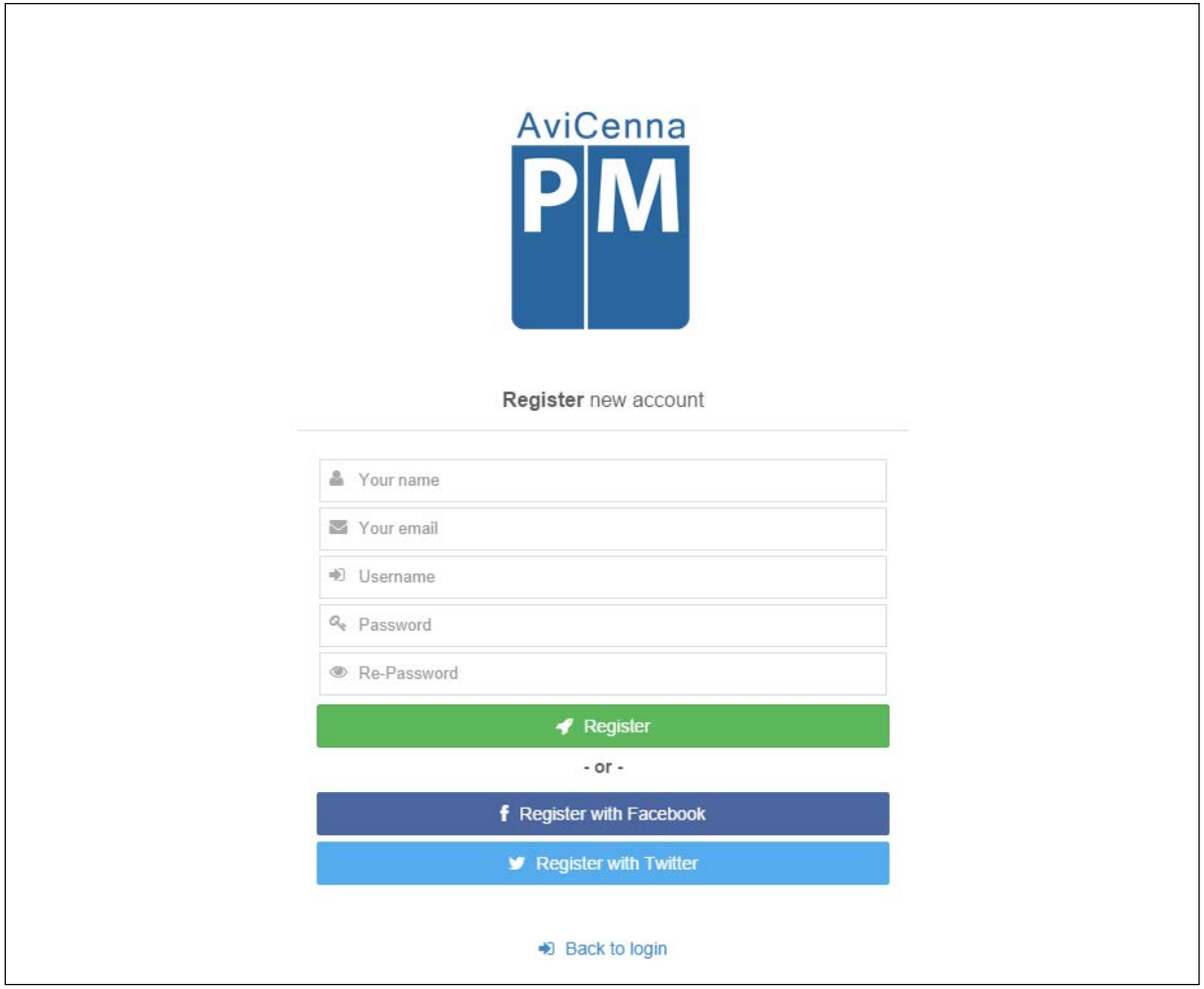
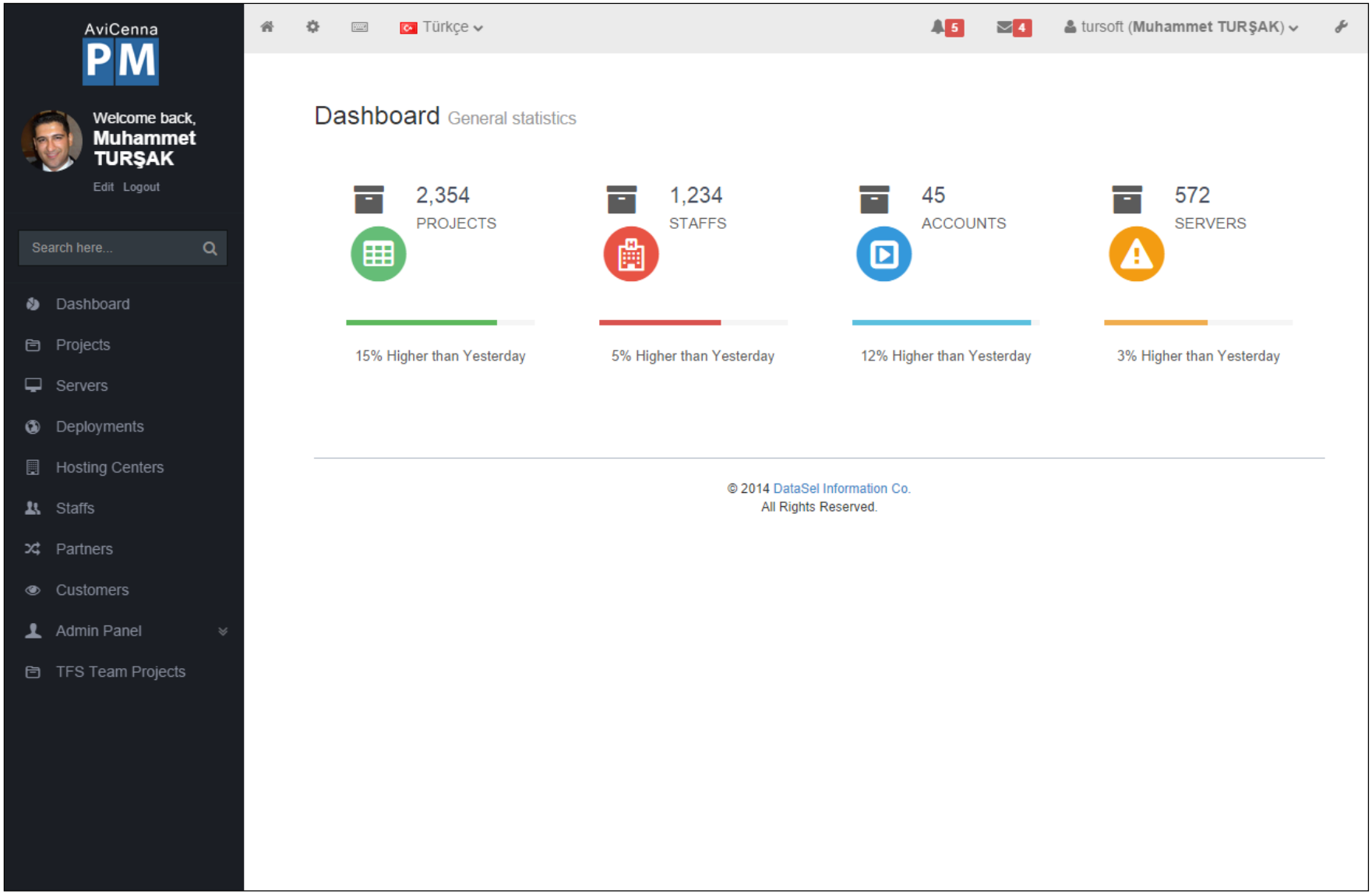
# Login Screen



# Registration Screen



# Dashboard


AviCenna
PM
Welcome back,
Muhammet
TURŞAK
Edit Logout
Search here...
Dashboard
Projects
Servers
Deployments
Hosting Centers
Staffs
Partners
Customers
Admin Panel
TFS Team Projects
Türkçe
5
4
tursoft (Muhammet TURŞAK)
Dashboard General statistics
2,354
PROJECTS
1,234
STAFFS
45
ACCOUNTS
572
SERVERS
15% Higher than Yesterday
5% Higher than Yesterday
12% Higher than Yesterday
3% Higher than Yesterday
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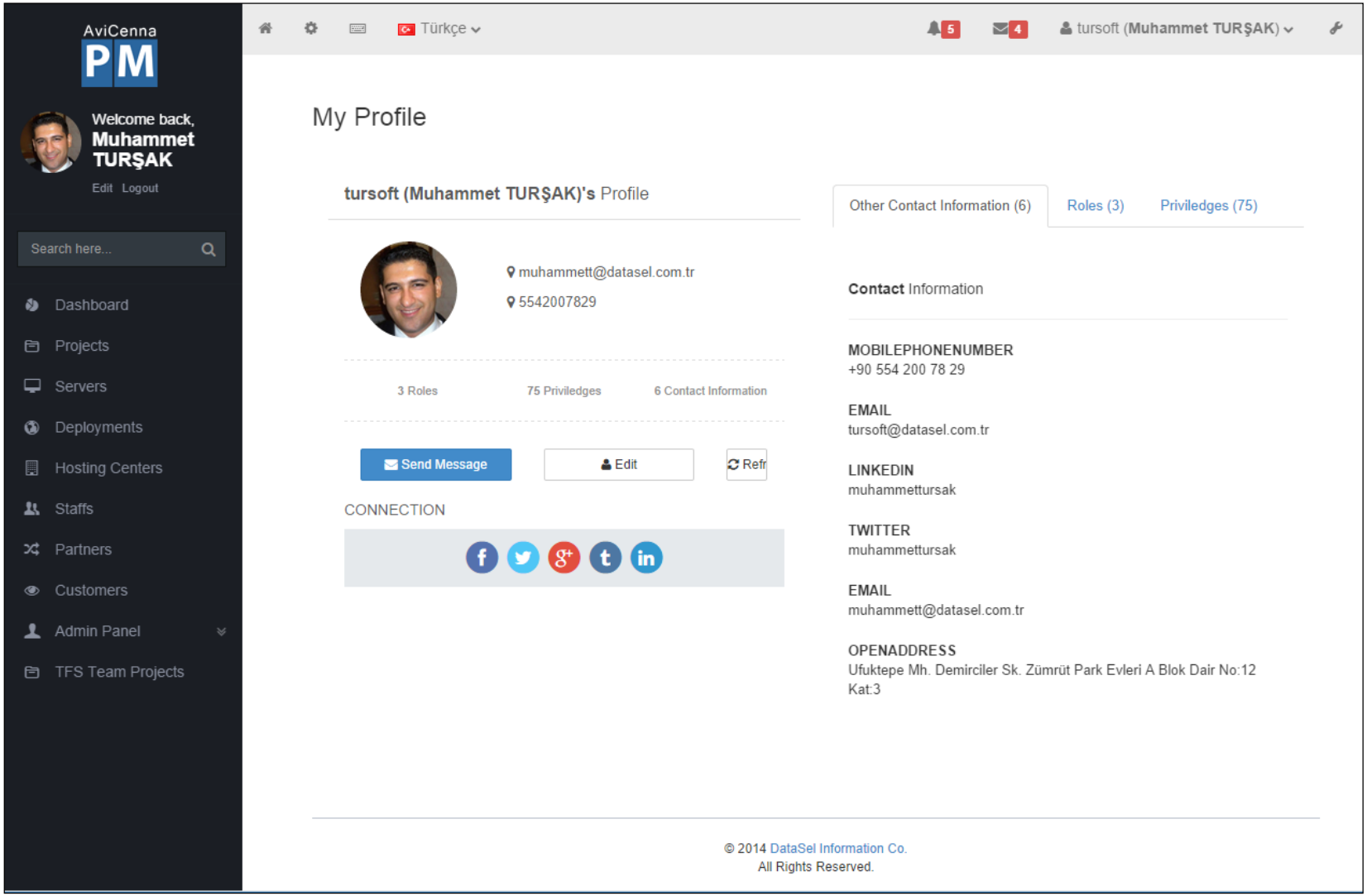
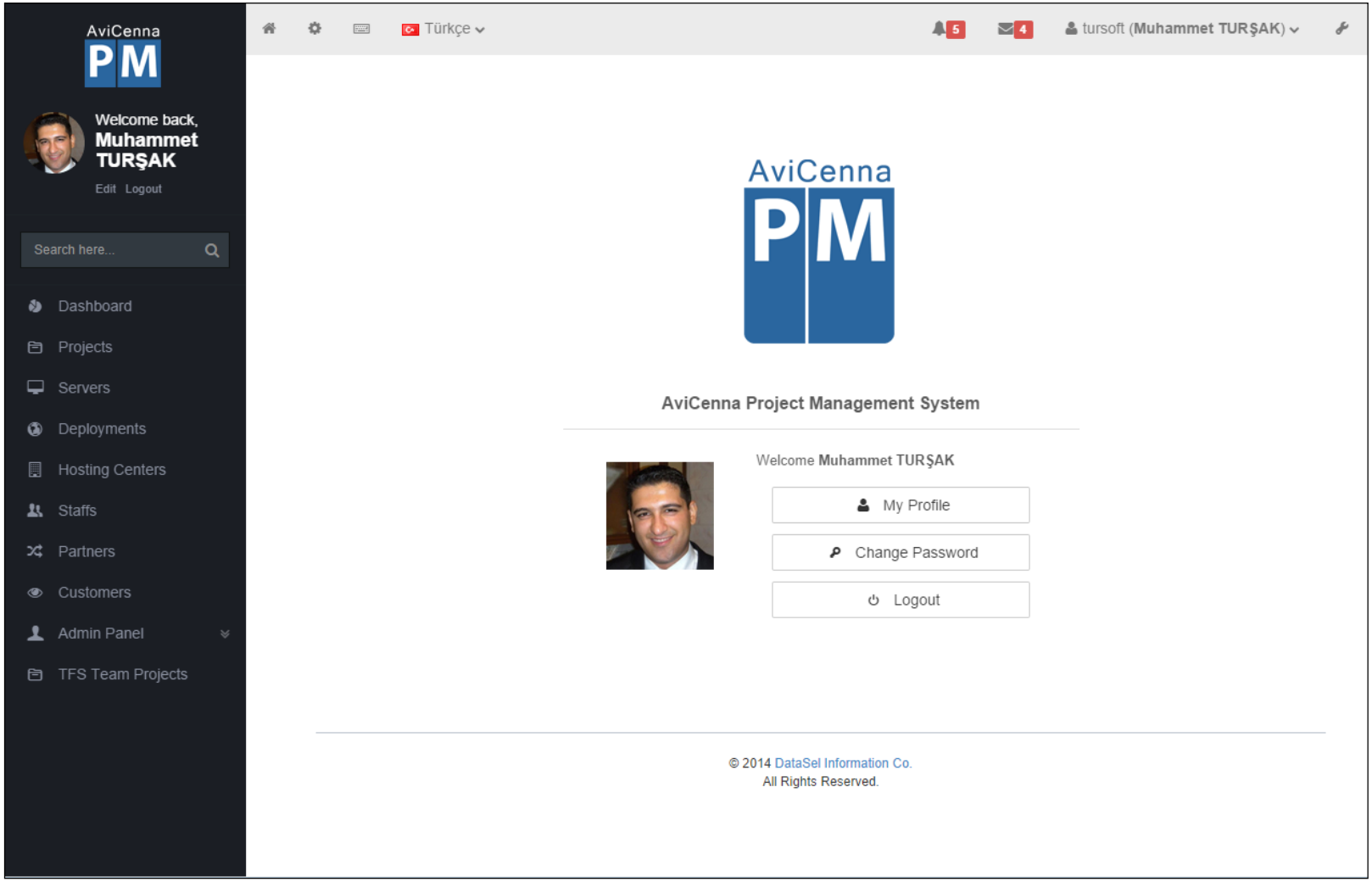
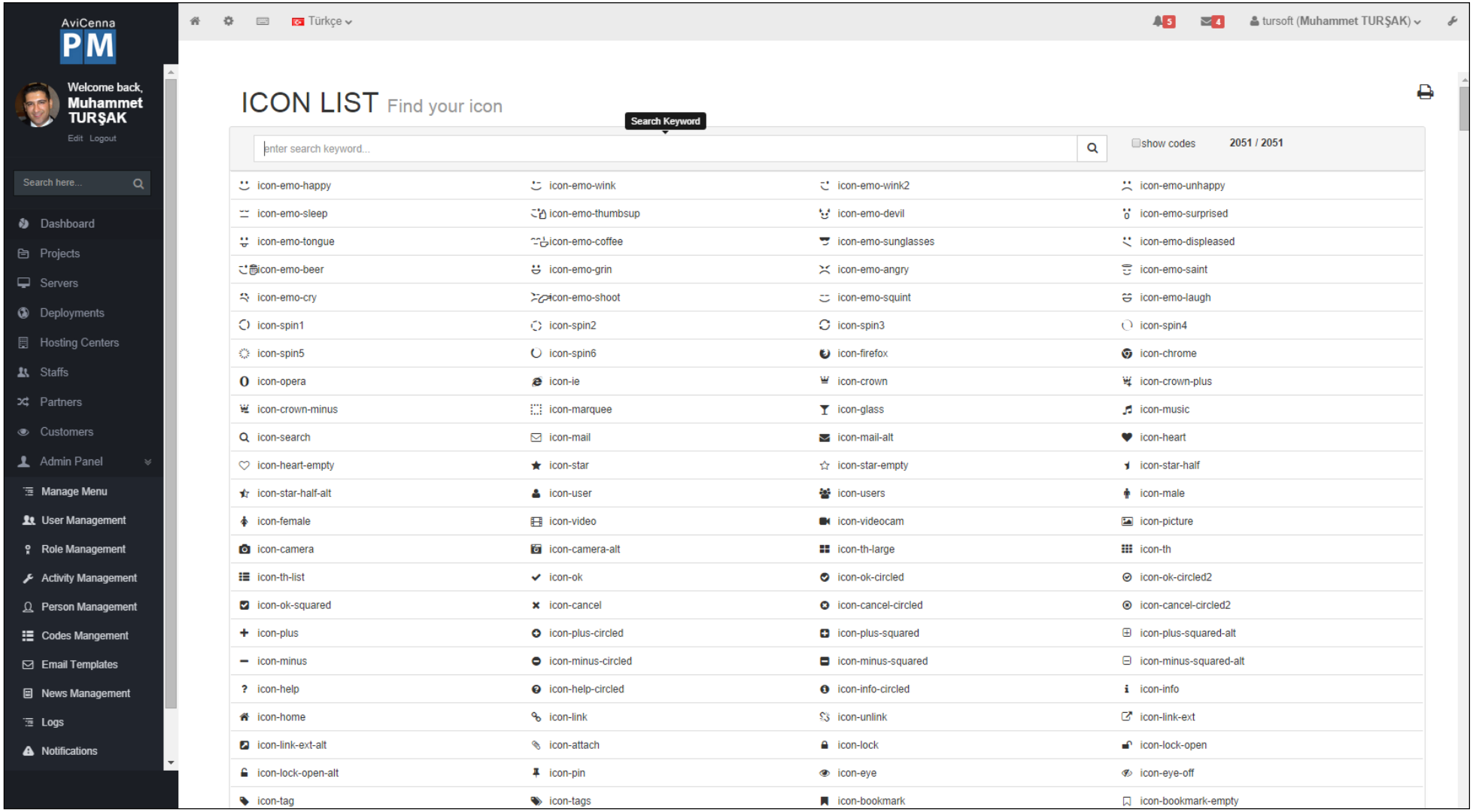
# My Profile Screen



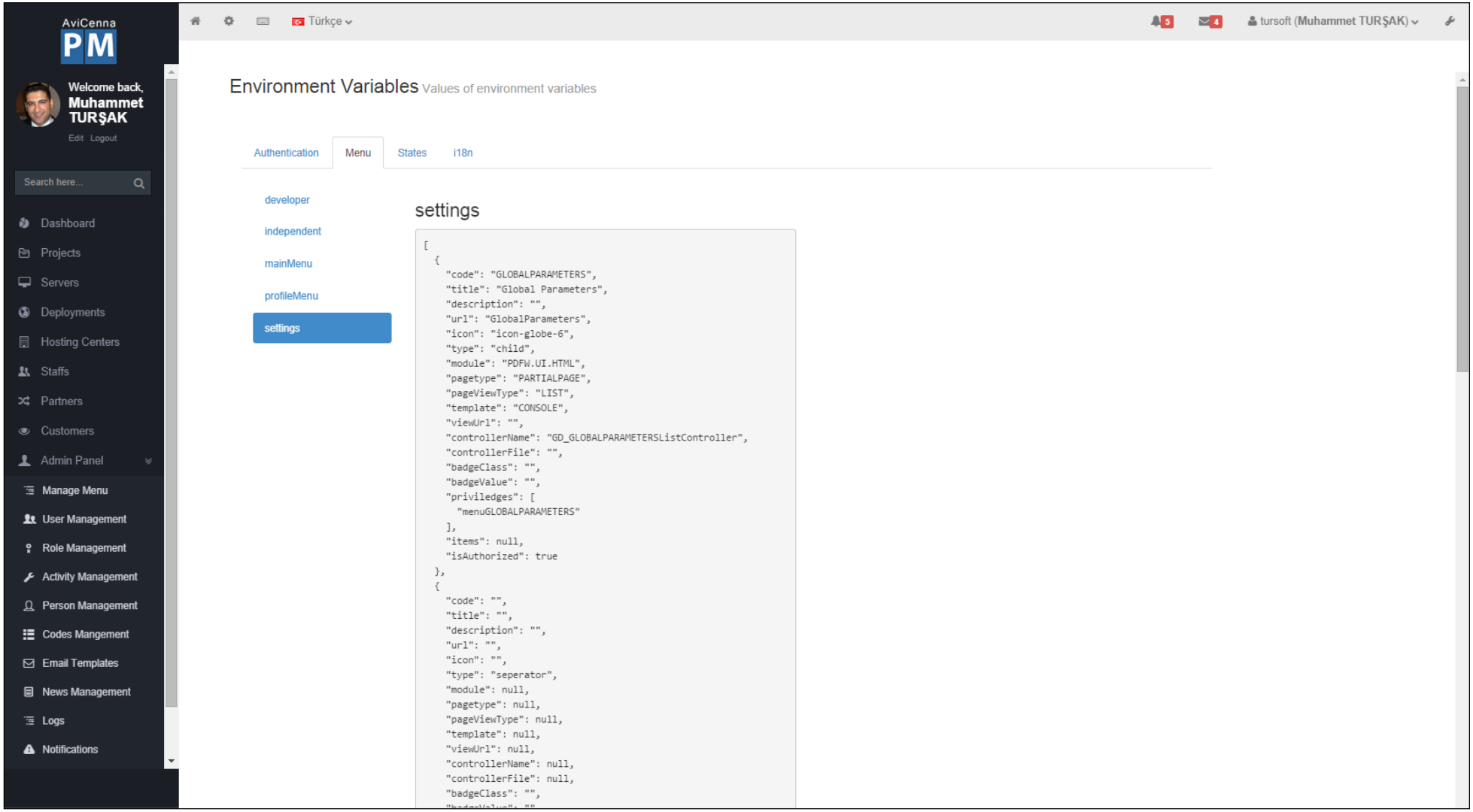
# Registered User Intro Page



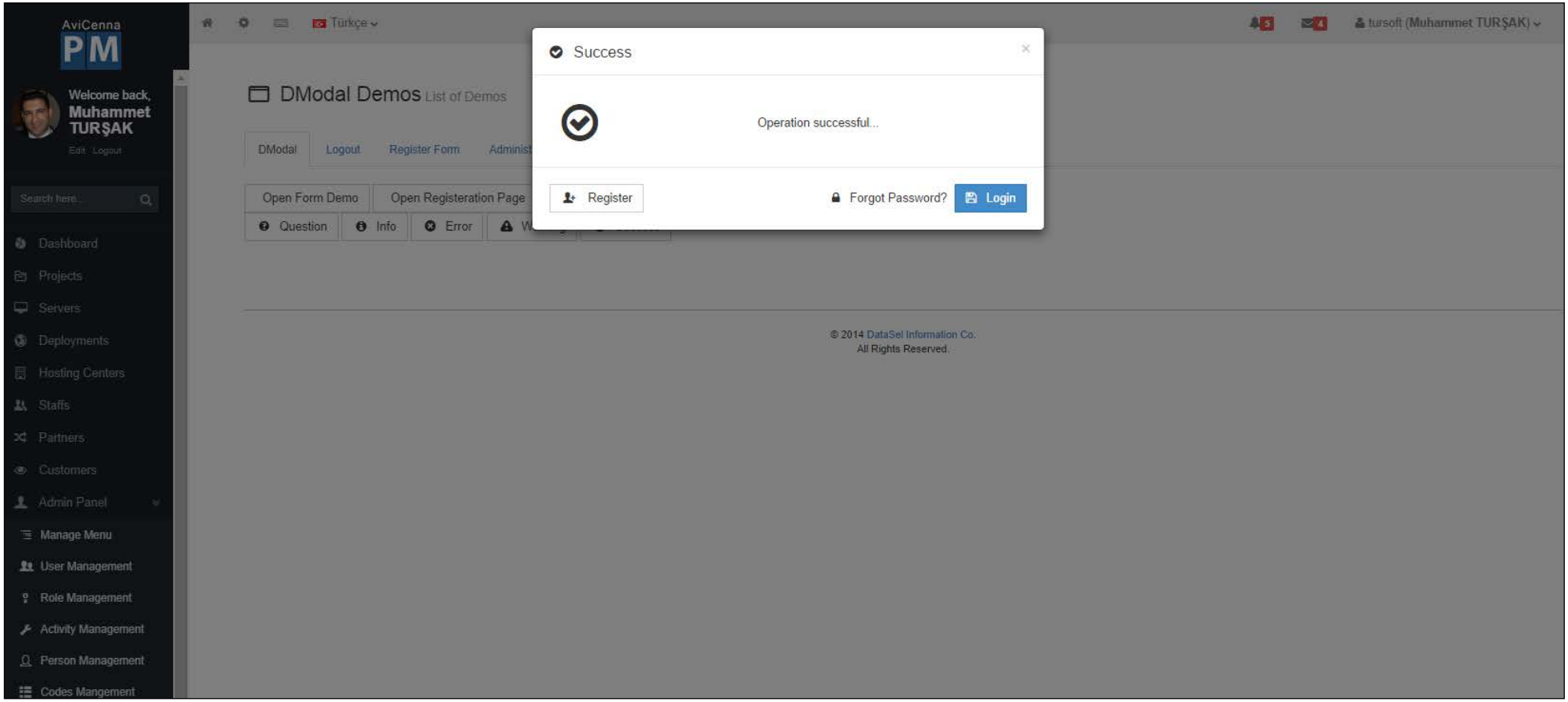
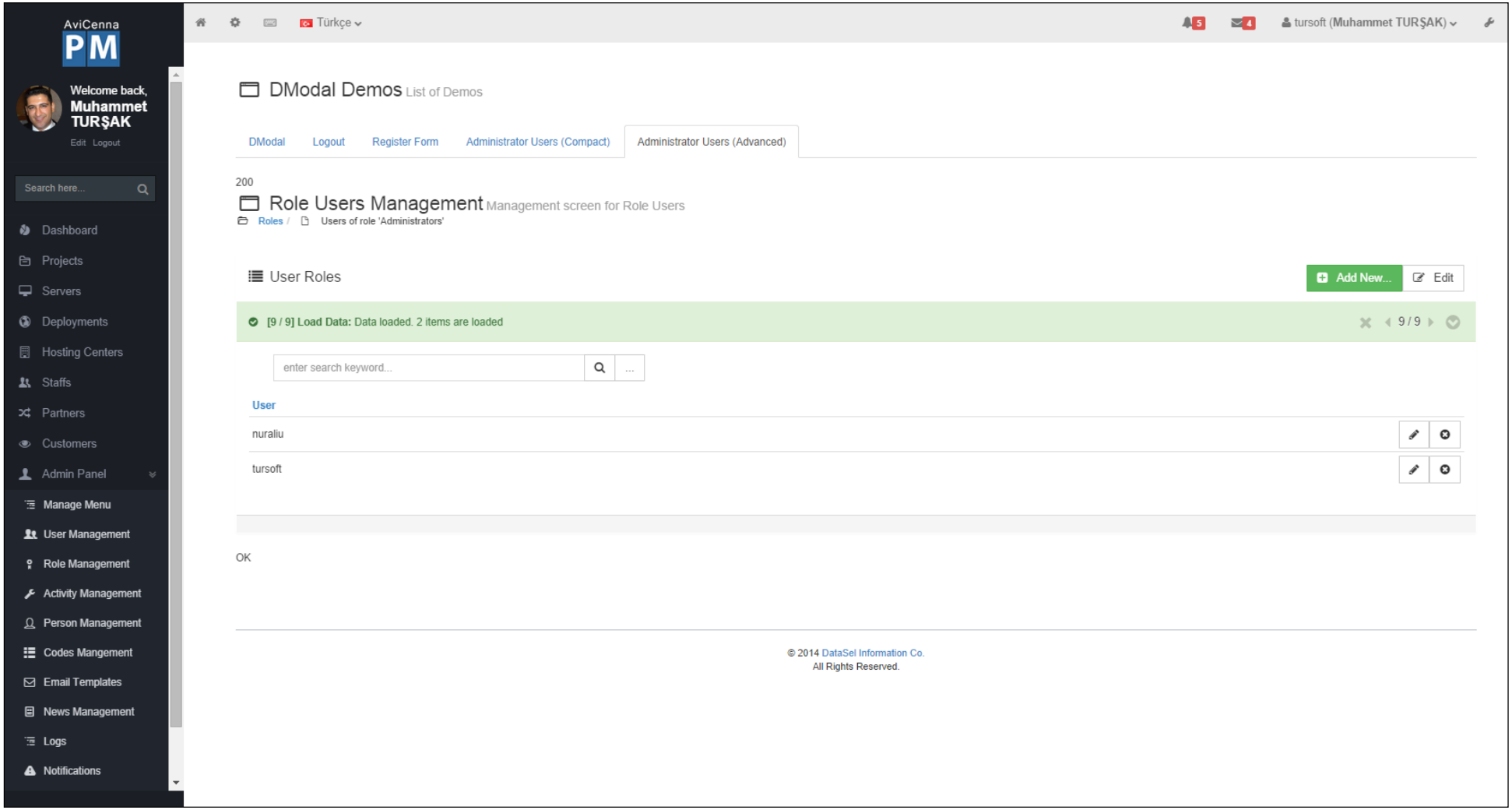
# Developer Tools: Icon List



# Developer Tools: Environment Variables



# Popup Sample



# Page Embedding Sample