



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, angular modules, services, apps)
 - max Extensibility (component 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. SCREENSHOTS

DGrid

MENU MANAGEMENT

Management screen for Menu

Menu

+ Add New...

Edit

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>

[9 / 9] Load Data: Data loaded. 10 items are loaded

×

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9 / 9

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enter search keyword...

Q

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100

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	✖	<div><div></div><div></div><div></div></div>
USERCONTACTINFO	independent	User Contact Information		✖	PDFW.UI.HTML	PARTIALPAGE	LIST	VW_GD_CONTACTINFOListController	0	✔	<div><div></div><div></div><div></div></div>
MANAGEDATATYPEFIELDS	independent	Data Type Fields		✖	Excluded	PARTIALPAGE	LIST	GD_DATATYPEFIELDListController	0	✖	<div><div></div><div></div><div></div></div>
USER_ROLES	independent	User Roles		✖	PDFW.UI.HTML	PARTIALPAGE	LIST	AspNetUserRolesListController	0	✔	<div><div></div><div></div><div></div></div>
ERROR_AUTHENTICATIONREQUIRED	independent	Authentication Required		✖	PDFW.UI.HTML	COMPLETEPAGE	CUSTOM		0	✔	<div><div></div><div></div><div></div></div>
DATAUNITTYPES	independent	Data Unit Types		✖	Excluded	PARTIALPAGE	LIST	GD_DATAUNITTYPEListController	0	✖	<div><div></div><div></div><div></div></div>
ACTIVITY_ROLES	independent	Roles of Activities		✖	PDFW.UI.HTML	PARTIALPAGE	LIST	SECURITY_ACTIVITYROLESListController	0	✔	<div><div></div><div></div><div></div></div>
MODELSCHEMEDESIGNER	independent	Model Scheme Designer		✖	PDFW.UI.HTML	PARTIALPAGE	CUSTOM	ModelSchemeDesignerController	0	✔	<div><div></div><div></div><div></div></div>
VALUETYPE_CODE_MANAGEMENT	independent	Value Type Codes		✖	Excluded	PARTIALPAGE	LIST	GD_DATAFIELDVALUETYPECODEListController	0	✖	<div><div></div><div></div><div></div></div>
TRANSLATIONITEMS	independent	Translation Items		✖	PDFW.UI.HTML	PARTIALPAGE	LIST	SYS_I18NListController	0	✔	<div><div></div><div></div><div></div></div>

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ARCHITECTURAL DESIGN SUMMARY and ROAD-MAP PLAN

7 / 22



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?

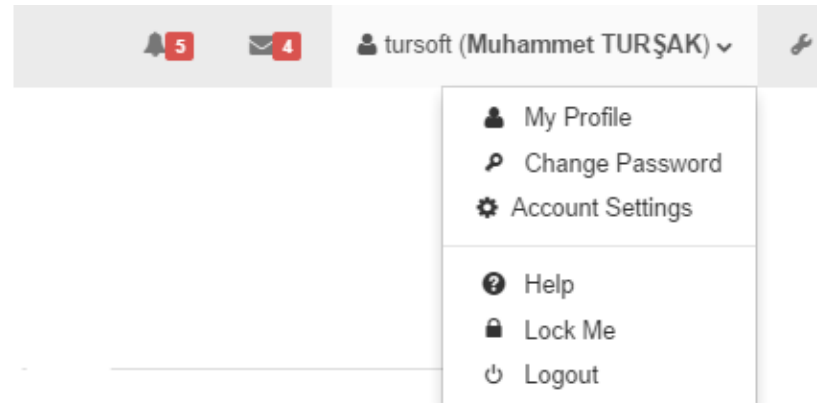
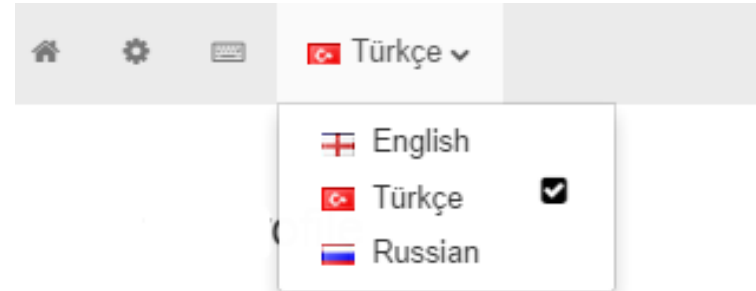
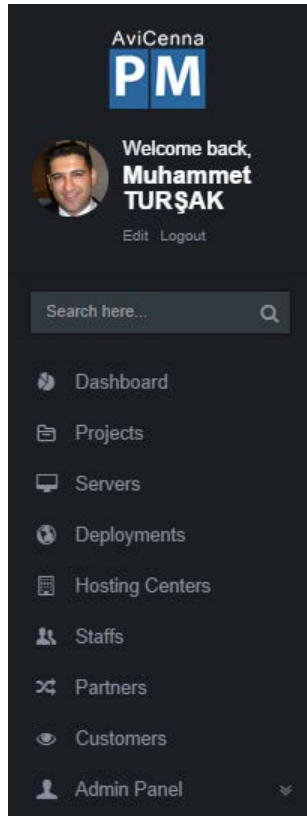
🐞 Debug?

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

5

4

tursoft (Muhammet TURŞAK)

USERS

Management screen for Users

Users

Add New...

[9 / 9] Load Data: Data loaded. 4 items are loaded

9 / 9

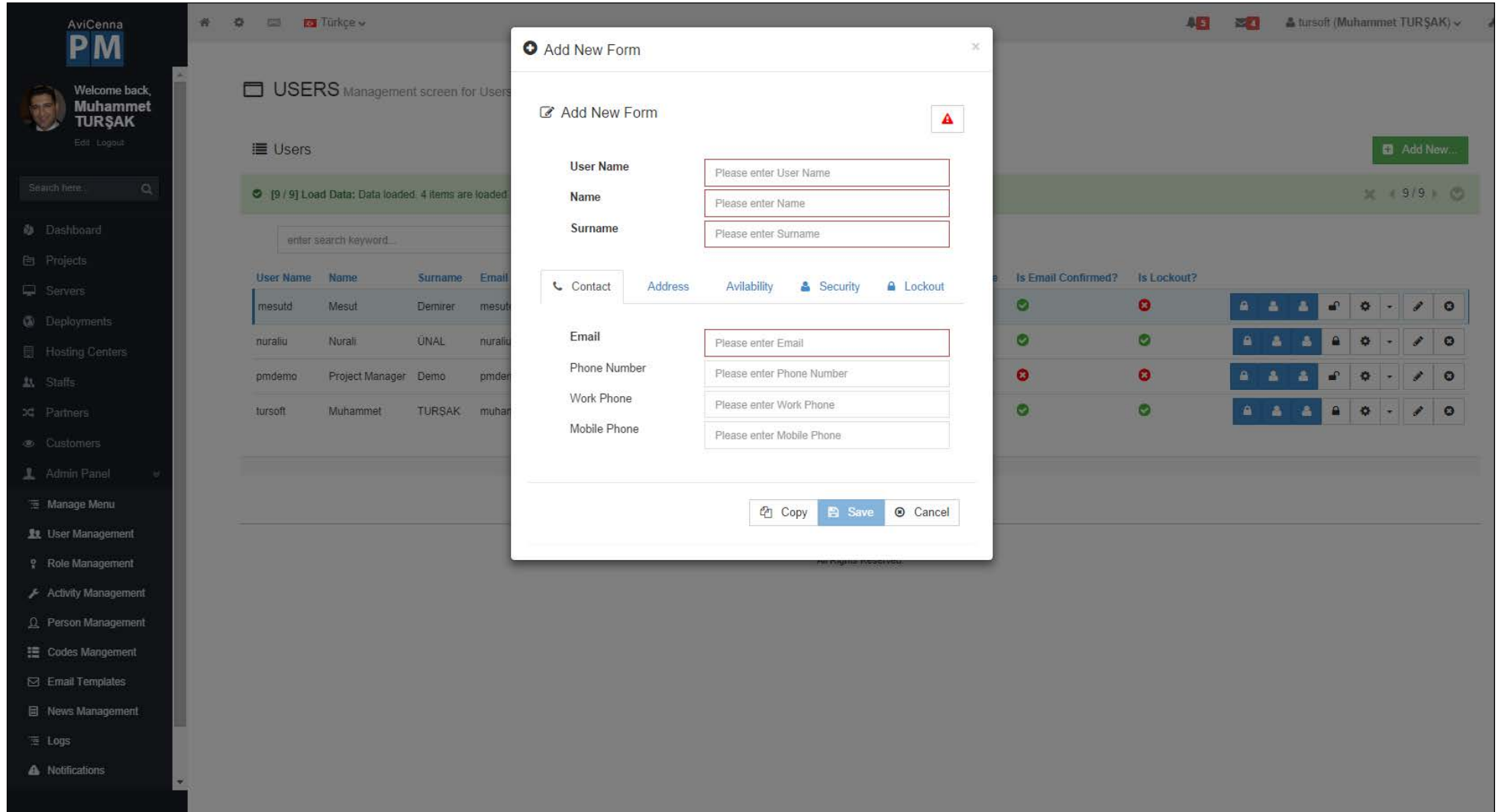
enter search keyword...

Q

...

User Name	Name	Surname	Email	Start Date	End Date	Phone Number	Work Phone	Mobile Phone	Is Email Confirmed?	Is Lockout?	
									✓	✗	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
						5555555555			✓	✓	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
									✗	✗	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
tursoft	Muhammet	TURŞAK	muhammett@datasel.com.tr			5542007829			✓	✓	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>

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Menu Management

AviCenna PM

Welcome back, **Muhammet TURŞAK**
Edit Logout

Search here...

Dashboard

Projects

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Deployments

Hosting Centers

Staffs

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Admin Panel

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Person Management

Codes Mangement

Email Templates

News Management

Logs

Notifications

Türkçe

5

4

tursoft (Muhammet TURŞAK)

MENU MANAGEMENT

Management screen for Menu

Menu

Add New... Edit < 1 2 >

[12 / 12] Load Data: Data loaded. 10 items are loaded

12 / 12

APM

10 25

Code	Group	Title	Parent	Debug?	Module	Page Type	View Type	Controller Name	Order Index	Is Active	
HOME	independent	Home Page			APM	PARTIALPAGE	CUSTOM	HomeController	0		
TFSPROJECTCOLLECTION	independent	TFS Project Collectios			APM	PARTIALPAGE	LIST	TFSProjectCollectionListController	1		
TFSWORKITEM	independent	TFS Work Items			APM	PARTIALPAGE	LIST	TFSWorkItemListController	1		
PROJECTSTAFFS	independent	Project Staffs	Projects		APM	PARTIALPAGE	LIST	GD_PROJECTSTAFFListController	0		
PROJECTDEPLOYMENTS	independent	Project Deployments	Projects		APM	PARTIALPAGE	LIST	GD_PROJECTDEPLOYMENTListController	0		
DASHBOARD	mainMenu	Dashboard			APM	PARTIALPAGE	CUSTOM		0		
PROJECTS	mainMenu	Projects			APM	PARTIALPAGE	LIST	GD_PROJECTListController	1		
SERVICES	mainMenu	Servers			APM	PARTIALPAGE	LIST	GD_SERVERListController	2		
DEPLOYMENTS	mainMenu	Deployments			APM	PARTIALPAGE	LIST	GD_DEPLOYMENTListController	3		
HOSTINGCENTERS	mainMenu	Hosting Centers			APM	PARTIALPAGE	LIST	GD_HOSTINGCENTERListController	3		

< 1 2 >

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AviCenna PM

Welcome back, **Muhammet TURŞAK**

Edit Logout

Search here...

Dashboard

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Deployments

Hosting Centers

Staffs

Partners

Customers

Admin Panel

Manage Menu

User Management

Role Management

Activity Management

Person Management

Codes Management

Email Templates

News Management

Logs

Notifications

MENU MANAGEMENT

Menu

[12 / 12] Load Data: Data loaded: 10 items are loaded

APM

Code	Group	Title
HOME	independent	Home Page
TFSPROJECTCOLLECTION	independent	TFS Project Collection
TFSWORKITEM	independent	TFS Work Item
PROJECTSTAFFS	independent	Project Staffs
PROJECTDEPLOYMENTS	independent	Project Deployments
DASHBOARD	mainMenu	Dashboard
PROJECTS	mainMenu	Projects
SERVICES	mainMenu	Servers
DEPLOYMENTS	mainMenu	Deployments
HOSTINGCENTERS	mainMenu	Hosting Centers

Edit Form

Code HOME

Title Home Page

Description Please enter Description

General Info **URL** **Appearance** **Misc**

URL /

Module APM

Page Type PARTIALPAGE

View Type CUSTOM FORM LIST

Page Template DEFAULT **CONSOLE**

View URL HomePage.html

Controller Name HomeController

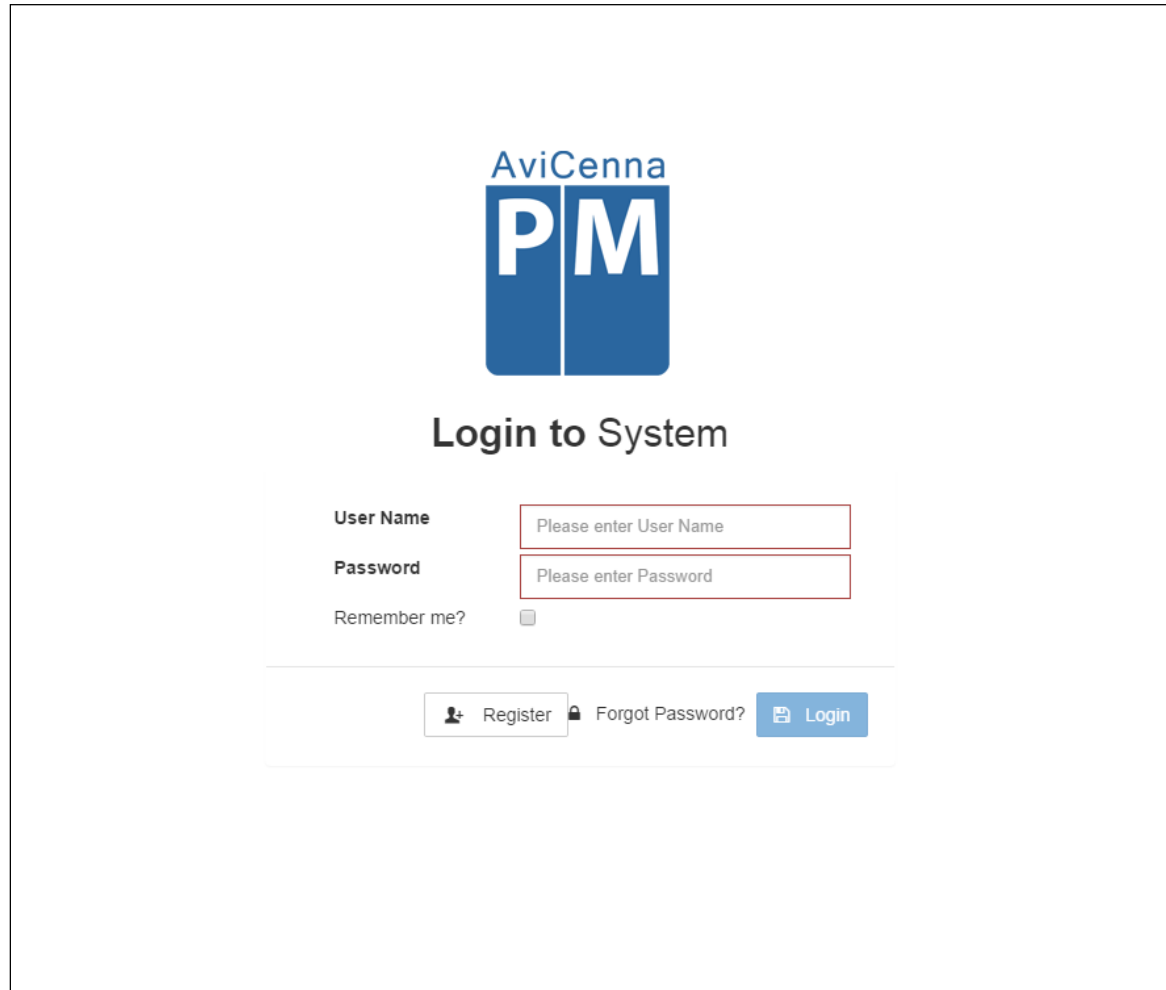
Controller File(s) HomeController.js

Copy Save Cancel

Controller Name	Order Index	Is Active
HomeController	0	✓
ProjectCollectionListController	1	✓
ProjectWorkItemListController	1	✓
ProjectStaffListController	0	✓
ProjectDeploymentListController	0	✓
ProjectListController	1	✓
ServiceListController	2	✓
DeploymentListController	3	✓
HostingCenterListController	3	✓

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Login Screen



The login screen features the AviCenna PM logo at the top center. Below the logo is the title "Login to System". The login form includes fields for "User Name" and "Password", both with placeholder text "Please enter User Name" and "Please enter Password" respectively. There is a "Remember me?" checkbox. At the bottom, there are three buttons: "Register" (with a user icon), "Forgot Password?" (with a lock icon), and "Login" (in blue).

AviCenna
PM

Login to System

User Name

Password

Remember me? ☐

[Register](#) [Forgot Password?](#) [Login](#)

Registration Screen


AviCenna
PM


Register new account

 Your name

 Your email

 Username

 Password

 Re-Password

Register

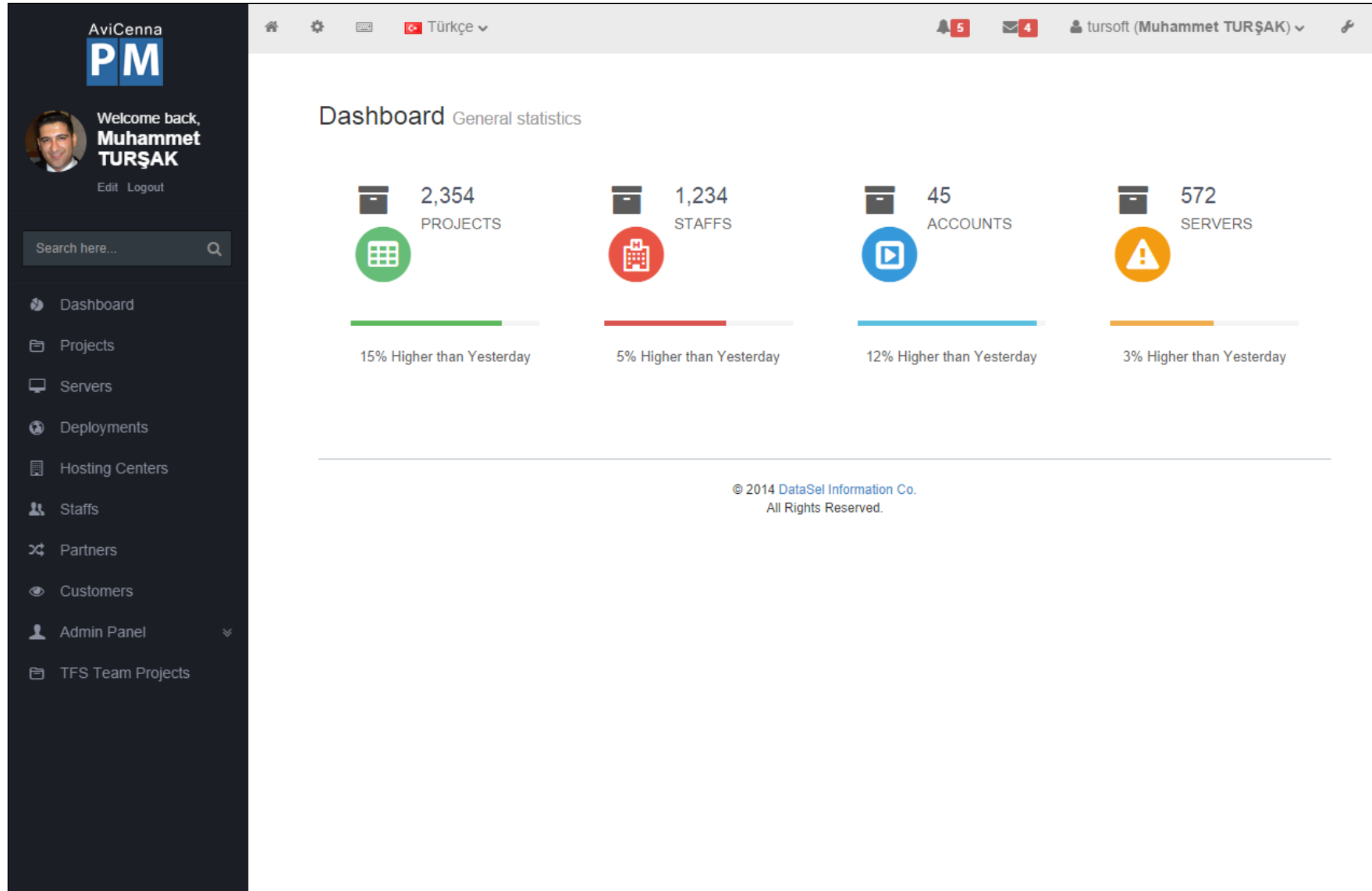
- or -

 Register with Facebook

 Register with Twitter


[Back to login](#)

Dashboard




My Profile Screen

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) 

My Profile

tursoft (Muhammet TURŞAK)'s Profile



 muhammett@datasel.com.tr

 5542007829

3 Roles

75 Priviledges






6 Contact Information

Send Message

Edit

Refr

CONNECTION

Other Contact Information (6) Roles (3) Priviledges (75)

Contact Information

MOBILEPHONENUMBER

+90 554 200 78 29

EMAIL

tursoft@datasel.com.tr

LINKEDIN

muhammettursak

TWITTER

muhammettursak

EMAIL

muhammett@datasel.com.tr

OPENADDRESS

Ufuktepe Mh. Demirciler Sk. Zümrüt Park Evleri A Blok Dair No:12
Kat:3


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Registered User Intro Page

The screenshot displays the user interface of the AviCenna Project Management System. On the left is a dark sidebar with the 'AviCenna PM' logo at the top. Below the logo, a welcome message reads 'Welcome back, Muhammet TURŞAK' with 'Edit' and 'Logout' links. A search bar is positioned below the message. The sidebar contains a list of menu items: Dashboard, Projects, Servers, Deployments, Hosting Centers, Staffs, Partners, Customers, Admin Panel, and TFS Team Projects. The top navigation bar includes icons for home, settings, and a language dropdown set to 'Türkçe'. On the right side of the top bar, there are notification icons (5), a mail icon (4), and a user profile icon labeled 'tursoft (Muhammet TURŞAK)'. The main content area features the 'AviCenna PM' logo and the title 'AviCenna Project Management System'. Below this, a 'Welcome Muhammet TURŞAK' message is followed by a user profile picture and three buttons: 'My Profile', 'Change Password', and 'Logout'. At the bottom of the page, a copyright notice states '© 2014 DataSel Information Co. All Rights Reserved.'

Developer Tools: Icon List

AviCenna
PM

**Welcome back,
Muhammet
TURŞAK**
[Edit](#) [Logout](#)

[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

5

4

tursoft (Muhammet TURŞAK)

ICON LIST

Find your icon

Search Keyword

show codes 2051 / 2051

icon-emo-happy	icon-emo-wink	icon-emo-wink2	icon-emo-unhappy
icon-emo-sleep	icon-emo-thumbsup	icon-emo-devil	icon-emo-surprised
icon-emo-tongue	icon-emo-coffee	icon-emo-sunglasses	icon-emo-displeased
icon-emo-beer	icon-emo-grin	icon-emo-angry	icon-emo-saint
icon-emo-cry	icon-emo-shoot	icon-emo-squint	icon-emo-laugh
icon-spin1	icon-spin2	icon-spin3	icon-spin4
icon-spin5	icon-spin6	icon-firefox	icon-chrome
icon-opera	icon-ie	icon-crown	icon-crown-plus
icon-crown-minus	icon-marquee	icon-glass	icon-music
icon-search	icon-mail	icon-mail-alt	icon-heart
icon-heart-empty	icon-star	icon-star-empty	icon-star-half
icon-star-half-alt	icon-user	icon-users	icon-male
icon-female	icon-video	icon-videocam	icon-picture
icon-camera	icon-camera-alt	icon-th-large	icon-th
icon-th-list	icon-ok	icon-ok-circled	icon-ok-circled2
icon-ok-squared	icon-cancel	icon-cancel-circled	icon-cancel-circled2
icon-plus	icon-plus-circled	icon-plus-squared	icon-plus-squared-alt
icon-minus	icon-minus-circled	icon-minus-squared	icon-minus-squared-alt
icon-help	icon-help-circled	icon-info-circled	icon-info
icon-home	icon-link	icon-unlink	icon-link-ext
icon-link-ext-alt	icon-attach	icon-lock	icon-lock-open
icon-lock-open-alt	icon-pin	icon-eye	icon-eye-off
icon-tag	icon-tags	icon-bookmark	icon-bookmark-empty

Developer Tools: Environment Variables

The screenshot displays the AviCenna PM web application interface. On the left is a dark sidebar with the user's profile (Muhammet TURŞAK) and a list of navigation items including Dashboard, Projects, Servers, Deployments, Hosting Centers, Staffs, Partners, Customers, Admin Panel, Manage Menu, User Management, Role Management, Activity Management, Person Management, Codes Management, Email Templates, News Management, Logs, and Notifications. The main content area is titled 'Environment Variables' and shows a list of variables. The 'settings' variable is selected, displaying its configuration in a code editor. The configuration includes fields for code, title, description, url, icon, type, module, pagetype, pageViewType, template, viewUrl, controllerName, controllerFile, badgeClass, badgeValue, privileges, items, and isAuthorized.

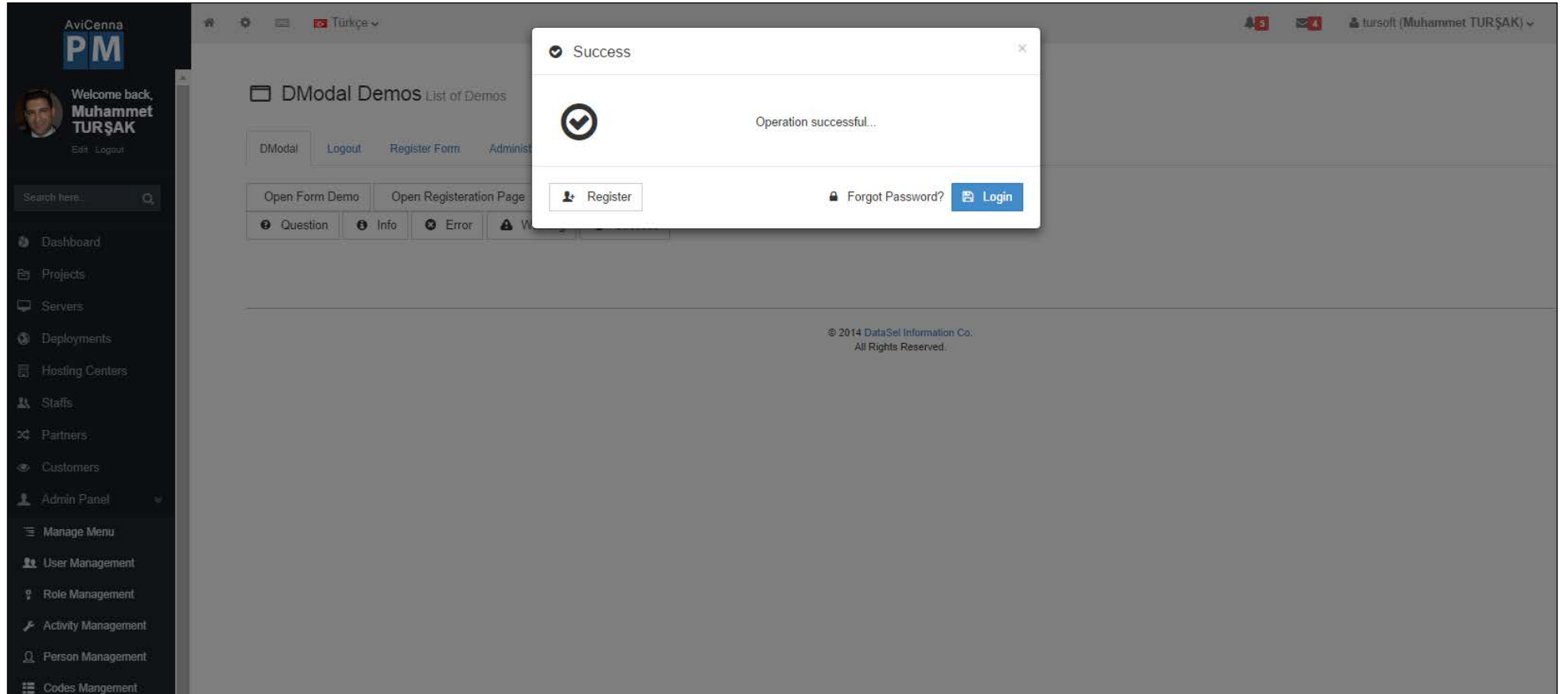
Environment Variables Values of environment variables

Authentication Menu States i18n

developer
independent
mainMenu
profileMenu
settings

```
[
  {
    "code": "GLOBALPARAMETERS",
    "title": "Global Parameters",
    "description": "",
    "url": "GlobalParameters",
    "icon": "icon-globe-6",
    "type": "child",
    "module": "PDFW.UI.HTML",
    "pagetype": "PARTIALPAGE",
    "pageViewType": "LIST",
    "template": "CONSOLE",
    "viewUrl": "",
    "controllerName": "GD_GLOBALPARAMETERSListController",
    "controllerFile": "",
    "badgeClass": "",
    "badgeValue": "",
    "privileges": [
      "menuGLOBALPARAMETERS"
    ],
    "items": null,
    "isAuthorized": true
  },
  {
    "code": "",
    "title": "",
    "description": "",
    "url": "",
    "icon": "",
    "type": "separator",
    "module": null,
    "pagetype": null,
    "pageViewType": null,
    "template": null,
    "viewUrl": null,
    "controllerName": null,
    "controllerFile": null,
    "badgeClass": "",
    "badgeValue": ""
  }
]
```

Popup Sample



Page Embedding Sample

The screenshot displays the Avicenna PM web application interface. On the left is a dark sidebar with the Avicenna PM logo and a user profile for Muhammet TURŞAK. The main content area has a light gray header with navigation tabs: DModal, Logout, Register Form, Administrator Users (Compact), and Administrator Users (Advanced). Below the tabs, the 'Role Users Management' section is active, showing a table of users. A green status bar indicates '[9 / 9] Load Data: Data loaded. 2 items are loaded'. The table lists two users: 'nuraliu' and 'tursoft', each with edit and delete icons. The footer of the application area contains the copyright notice: '© 2014 DataSel Information Co. All Rights Reserved.'

Avicenna PM

Welcome back, Muhammet TURŞAK

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

5

4

tursoft (Muhammet TURŞAK)

DModal Demos List of Demos

DModal Logout Register Form Administrator Users (Compact) Administrator Users (Advanced)

200

Role Users Management Management screen for Role Users

Roles / Users of role 'Administrators'

User Roles

Add New... Edit

[9 / 9] Load Data: Data loaded. 2 items are loaded

enter search keyword...

User

nuraliu

tursoft

OK

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