TECHMERITS

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Specification- Client maintenance

Maintain Clients for Supervisor

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Revision history

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Revised by | Description |
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# Overview

This documentation is a specification for **Supervisor feature** to maintain Clients and include the following tasks:

1. Add Clients.
2. View Clients.
3. Delete Clients.
4. Modify Clients.

# Software requirements

Below mentioned software’s, frameworks and packages are used for developing the feature.

1. Visual studio 2013
2. MVC 5
3. ASP.NET 4.5.x
4. Microsoft SQL server 2012 Express
5. Bootstrap 3.6.x

# Framework

## Solution name

This feature will be developed in ***TechmeritsEMS.sln***

# Database

The below mentioned tables used for this feature:

## Clients

This table contains Client details.

|  |  |
| --- | --- |
| Database field | Description |
| ClientID | Client ID(Unique). |
| ClientName | Client name to be displayed.(Not to allow duplicate) |
| Address | Store address of the client |
| Phone | Phone number of the client |
| Mobile | Mobile number of the client |
| Email | Email address of the client |
| AddressLine1 | Store address |
| AddressLine2 | Store address |
| Country | Store country Id |
| State | Store State name |
| City | Store city name |
| CountryCode | Store country code |
| STDCode | Store STD code |
| ZipCode | Store zip code |
| ContactPerson | Store contact person |

# Models

This section contains the models we use for Client maintenance feature.

## Client

The following class represents a Client.

***TechmeritsEMS.Models.Client***

|  |  |  |
| --- | --- | --- |
| Data members | Data type | Description |
| ClientID | string | Id of the client. |
| ClientName | string | Name of client. |
| Address | string | Address of the client. |
| Phone | string | Phone number of the client |
| Mobile | string | Mobile number of the client |
| Email | string | Email of the client |
| Message | string |  |
| AddressLine1 | string | Address of the client. |
| AddressLine2 | string | Address of the client. |
| Country | string |  |
| State | string |  |
| City | string |  |
| CountryCode | string |  |
| STDCode | string |  |
| ZipCode | string |  |
| ContactPesron | string |  |

# Helpers

This section contains the helpers we used for this feature.

We write all our user defined methods in Helpers.

For Client maintenance we use ‘***TechmeritsEMS.Helpers.ClientHelper.cs’***

## Get all Clients

We use the method ***TechmeritsEMS.Helpers.ClientHelper.GetAllClients(*** ) to get all clients from DB.

|  |  |  |
| --- | --- | --- |
| Parameter | Data type | Description |
|  | List<Client> (Return type) | Returns a List of Client. |

## Add Client

We use the method ***TechmeritsEMS.Helpers.ClientHelper.AddClient(Client client***) to add a client to DB.

|  |  |  |
| --- | --- | --- |
| Parameter | Data type | Description |
| client | Client | New client and details will be added. |
|  | string (Return type) | Returns string.Empty in case of success or the error message in case of any error or exception. |

## Delete Client

We use the method ***TechmeritsEMS.Helpers.ClientHelper.DeleteClient( Client client***) to delete a client from Client table..

|  |  |  |
| --- | --- | --- |
| Parameter | Data type | Description |
| client | Client | Selected client will be deleted. |
|  | string (Return type) | Returns string.Empty in case of success or the error message in case of any error or exception. |

## Save client

We use the method ***TechmeritsEMS.Helpers.ClientHelper.SaveClient(sring clientID,Client newClientData***) to save modified client to DB.

|  |  |  |
| --- | --- | --- |
| Parameter | Data type | Description |
| clientID | string | Selected client ID. |
| newClient | Client | Modified client details . |
|  | string (Return type) | Returns string.Empty in case of success or the error message in case of any error or exception. |

# Controllers & Views

This section contains controllers and views required for Client maintenance feature.

Following controller will be used for Client maintenance functionality:

***TechmeritsEMS.Controllers.ClientMaintenanceController***

## View clients

The following action method is the starting point for Client maintenance functionality.

***TechmeritsEMS.Controllers.ClientMaintenanceController.Index(***)

It will call the below helper method:

***TechmeritsEMS.Helpers.ClientHelper.GetAllClients(*** )

* Admin user can access it without any restriction and will manage entries for all other profiles.
* Left panel will contain a link to ‘Add client’.

## Add client

The following action method is used to add a new Client to DB.

***TechmeritsEMS.Controllers.ClientMaintenanceController.AddClient(***)

It will call the below Helper method:

***TechmeritsEMS.Helpers.ClientHelper.AddClient( Client client***)

## Delete client

The following action method is used to delete a client from DB.

***TechmeritsEMS.ControllersClientMaintenanceController.DeleteClient(clientID***)

|  |  |  |
| --- | --- | --- |
| Parameter | Data type | Description |
| clientID | string | Selected Id of client. |

It will call the below Helper method:

***TechmeritsEMS.Helpers.ClientHelper.DeleteClient( Client client***)

## Modify client

The following action method is used to modify a client.

***TechmeritsEMS.Controllers.ClientMaintenanceController.ModifyClient(clientID***)

|  |  |  |
| --- | --- | --- |
| Parameter | Data type | Description |
| clientID | string | Selected ID of client. |

It will call the below Helper method:

***TechmeritsEMS.Helpers.ClientHelper.SaveClient(string clientID,Client newClient***)

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