Phone Book Application

Create an Angular End-to-End Application which is used to manage the contacts of people.

This application should have following features:

- 1) Adding new contact
- 2) Deleting an existing contact
- 3) Updating an existing contact details
- 4) Displaying all the contacts

Design:

- Phone Book application should use an ASP.NET WEB API service to fetch and manipulate records
 of contacts in database.
- Database layer should be developed in Entity framework for all the CRUD operations.
- Whole application should follow the n-tier architecture where angular should be used as frontend UI.
- All the forms posted should be validated with client side validation with proper error messages
- Database used is the MS SQL Server. Following fields can be used for the contact table:

Use the following model structure:

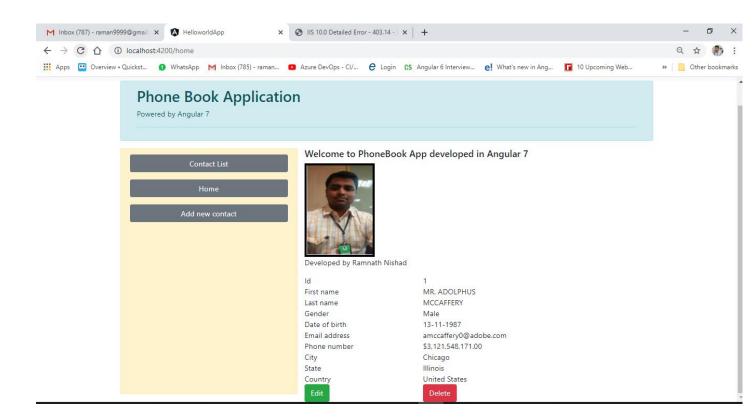
```
export class Contact {
    id:number;
    firstname:string;
    lastname:string;
    gender:string;
    dob:string;
    email?:string;
    phone?:string;
```

```
city?:string;
state?:string;
country?:string;
picture?:string='./assets/images/7.jpg';
}
```

• Store few sample pictures in assets folder of the application whose names should be mapped to the id of the contact. For e.g. if the contact id is 1 then its picture file name should be 1.jpg stored in assets folder and in the database picture url can be stored as mentioned in above sample.

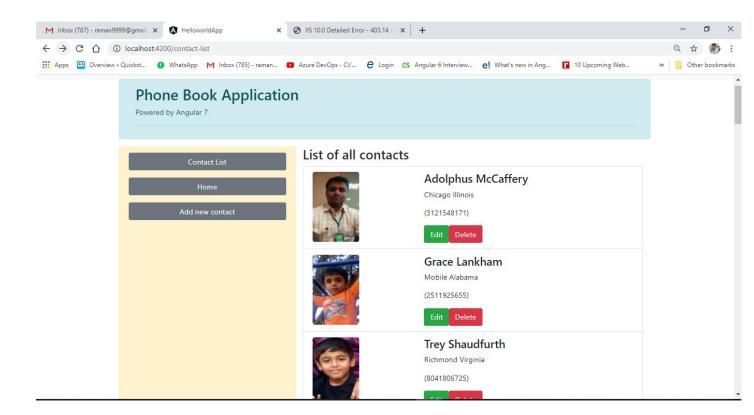
Flow of the application:

1) Home page should look like this, which should display a header, side menu buttons and a right side owner details as shows below from database (you can assume any contact record from database as owner):



2) When first button "Contact List" is clicked, it should display all the contacts from database in the right column as below. It displays the contact Picture, First Name, Last Name and Country. It should also have two buttons for Edit and Delete.

When **Edit** is clicked, it should go for edit form and on click of **Delete** button it should delete the record and refresh and display the list again.



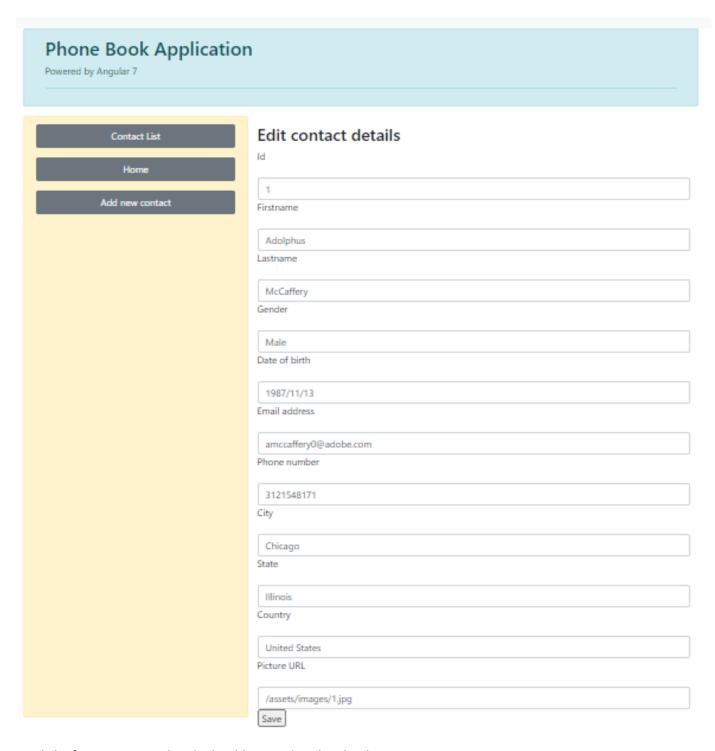
- 3) When Home button is clicked, it should go back to home again
- 4) When **Add new contact** button is clicked, it should open the Add form a below:

Phone Book Application	
Powered by Angular 7	
Contact List	Add contact details Firstname
Home	
Add new contact	Lastname
	Email address
	Gender
	OMale OFemale
	Date of birth(YYYY/MM/DD)
	Phone number
	City
	State
	Country
	Picture URL
	/assets/images/7.jpg
	Add Contact

Note: Add button should be disabled till all the fields are not entered correctly.

On click of **Add Contact**, record should get inserted in database using Web API and it should go back to display all the contacts list again.

5) Similarly whenever **Edit** button is clicked, it should display edit for modifying the contact details as below:



On click of Save, contact details should get updated in database.