

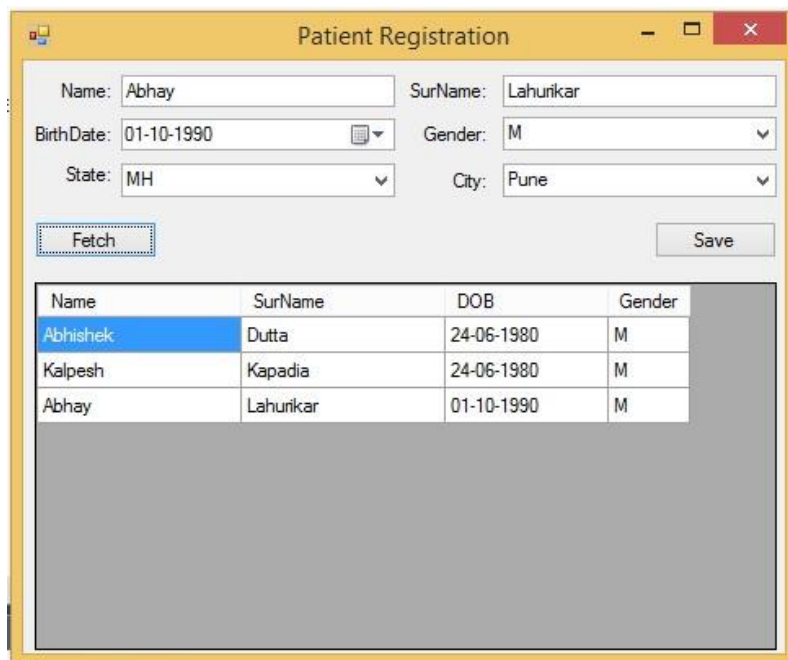
Assignment is to be done using:

- Angular 2 /4 /5 ASP.Net or Asp.net core, webAPI.
- Code should be unit testable.
- Writing some unit test cases is mandatory.
- Duration – 2 hours

Requirement:

- Register a new Patient- Create a page with 6 fields
  - Name, Surname, Gender, Date of Birth, State, City
- Allow Filtration of 2 fields (e.g. If user selects a state Maharashtra,
  - all the cities in Maharashtra should be populated in <City> combo)
- State, City
  - Validation:
    - Birthdate
      - Should not be greater than today's date
      - Should not be less than 100 years
    - Name and Surname
      - Only alphabets are allowed
      - No special characters are allowed.
  - Patient must be unique base on all four fields

UI Design:



The screenshot shows a 'Patient Registration' window. It contains a form with the following fields:

- Name: Abhay
- SurName: Lahurikar
- BirthDate: 01-10-1990
- Gender: M
- State: MH
- City: Pune

Below the form, there is a 'Fetch' button and a 'Save' button. A table displays the fetched data:

Name	SurName	DOB	Gender
Abhishek	Dutta	24-06-1980	M
Kalpesh	Kapadia	24-06-1980	M
Abhay	Lahurikar	01-10-1990	M

To Save and fetch the data, please refer iMedOneDB.DLL (present on desktop) in your application/project-

This <dll> contains, following models/classes:

- iMedOneDB.Models.TBLPATIENT
- iMedOneDB.Models.Tblstate
- iMedOneDB.Models.Tblcity

Saving and fetching the data:

In this <dll>, there is a class “DBContext” which is responsible for saving and fetching the data.

```
bool DBContext.SaveAll<iMedOneDB.Models.TBLPATIENT>(IEnumerable<iMedOneDB.Models.TBLPATIENT> objectsToSave)
```

e.g.

```
DBContext.SaveAll<iMedOneDB.Models.TBLPATIENT> (patientList);
```

```
IEnumerable<iMedOneDB.Models.Tblcity> DBContext.GetData<iMedOneDB.Models.Tblcity>()
```

e.g. `var` cities = DBContext.GetData<iMedOneDB.Models.Tblcity> ();

```
IEnumerable<iMedOneDB.Models.Tblcity> DBContext.GetData<iMedOneDB.Models.Tblcity>(int id)
```

e.g.

`var` city = DBContext.GetData<iMedOneDB.Models.Tblcity> (cityId);