FINAL-4 DENTIST APPOINTMENT SYSTEM JASKARAN SINGH YASH KUMAR PATEL GEORGEY AKHIL THOMAS

1. Documentation:

1.1. Overview about Application:

This is a Dental appointment system where the patient is provided with medical service by taking an appointment on this application. Patient details like name, age, and gender also have the feature to update and delete the patient details. Patients have an option to review the service after the appointment.

This application also provides the admin to make necessary changes to the time slot for the appointments by adding slots. New employees can be registered and can be viewed in the employee list.

2. Functional overview

2.1 Login Page Details:

This page contains the username and password field where the user enters the username and password details to get access to the main window. If the login credentials are wrong, the system prompts an alert message showing an invalid "username and password." If the username and password are correct, then the user can move to the main page

Developer Lo	ogin details
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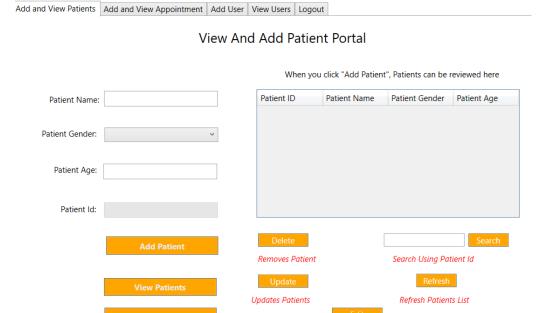
FINAL-4 DENTAL CLINIC

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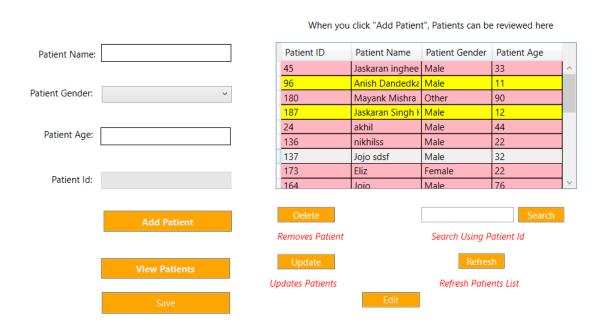
Login					
Login ID:					
Password:					
	Sign In				

2.2 Add and View Patients

This page contains all the details which are to be added for patients and can alter the data of added patients.

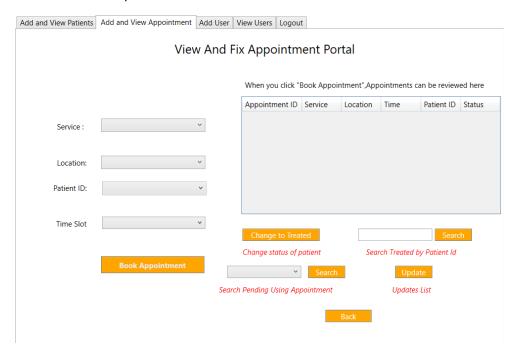


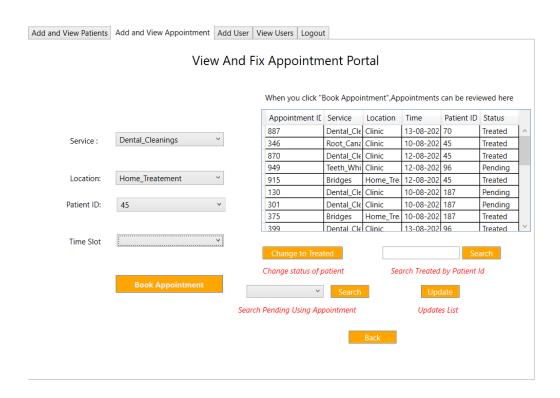
View And Add Patient Portal



2.3 Add and View Appointments

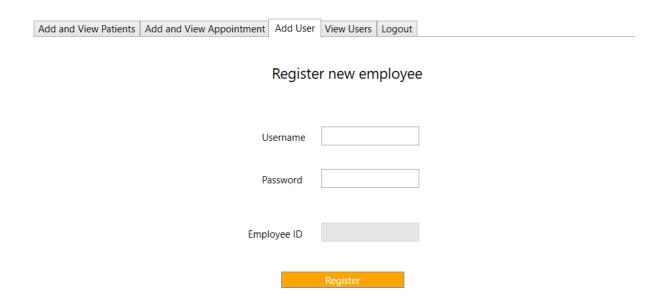
This page allows to add and view appointmnets for the provided services. Customer details can be searched and updated here.





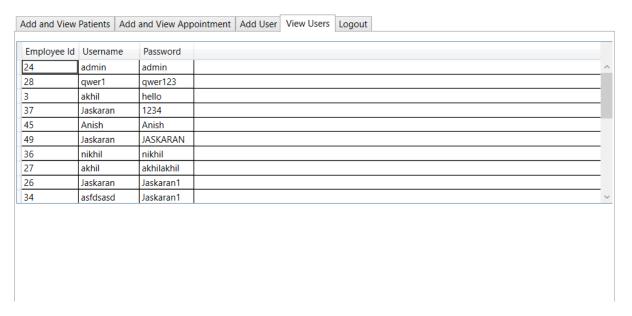
2.4 Add User

This page is to add new users



2.5 View User

After registering a new user, the details of all registered users is shown in view user as a list.



2.6 Logout

This page is to logout from the application after completing the process

Add and View Datients	Add and View Appointment	Add Hear	View Heere	Logout
Add and view Patients	Add and view Appointment	Add User	view osers	Logout

Final 4 Dental Clinic

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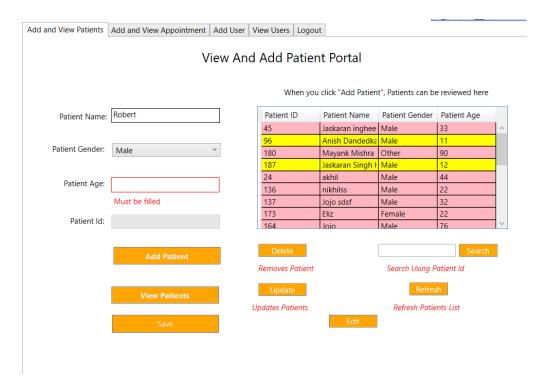
Are you sure to Logout from the System?

Logout

3. Validation

Create Validation

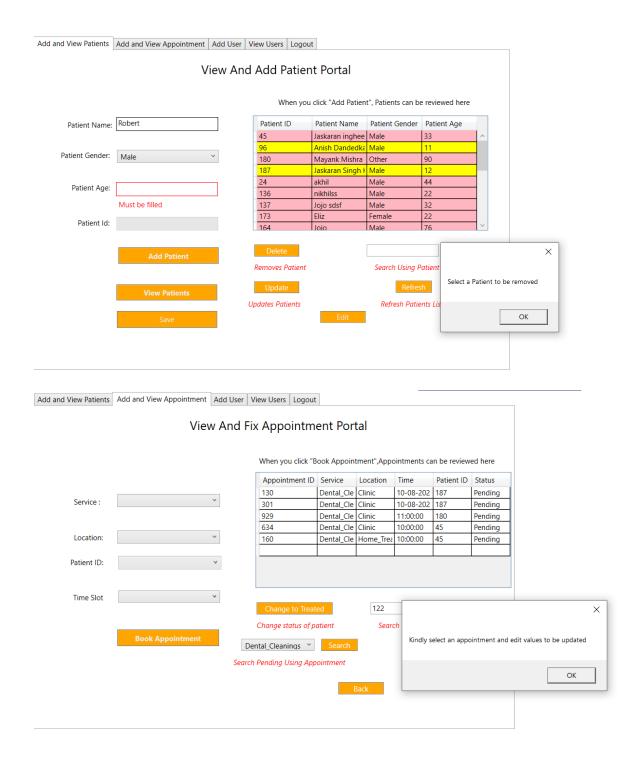
If any of the fields are empty the alert indicator with message is displayed



Button Validation:

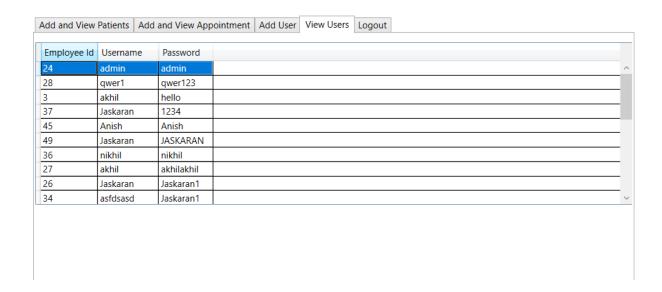
Here if any button is pressed before required field is not entered. It will show an error message.

Here row is not selected before pressing delete button



View User:

Here user details can be accessed in the system in a DataGrid view.



CODE SNAPS AS PER RUBRICS:

- 1.) GUI-Screen Design: Already mentioned above
- 2.) GUI Binding:

3.) GUI LIST:

```
public void IslandGender()
{

   ptntGender.Add(new PatientGender("Male"));
   ptntGender.Add(new PatientGender("Female"));
   ptntGender.Add(new PatientGender("Others"));
   cb_patient_gender.ItemsSource = ptntGender;
   cb_patient_gender.DisplayMemberPath = "Gender";
}

1reference
public void loadTimeSlot()
{
   timeSlot.Items.Clear();
   foreach (var item in slots)
   {
        ComboBoxItem time = new ComboBoxItem();
        time.Content = slots[item.Key];
        timeSlot.Items.Add(time);
}
```

4.) GUI Grids:

5.) GUI ERORS AND CONVERTER:

- 6.) CODE PROPER DISTRIBUTION: Code is divided into different segments separated by comments and code divided into different classes and interface.
- 7.) USE OF COLLECTIONS:

```
// Accessing Lists
AppointmentList appointmentList = new AppointmentList();
PatientList patientList = new PatientList();

EmployeeList employeeList = new EmployeeList();
```

8.) CODE CLASS DESIGN:

```
Properties
  ▶ ♣ References
      App.config
  App.xaml
  \triangleright
      C# Appointment.cs
     C* AppointmentList.cs
  \triangleright
  C= Classification.cs
  ▶ C= ConnectEmployee.cs
  ▶ C= ConnectPatient.cs
  ▶ C= Converter.cs
  ▶ C<sup>#</sup> EmployeeList.cs
      EmployeePasswordRule.cs
  \triangleright
  ▶ C= EmployeeRegistration.cs
  ▶ C EmployeeUserNameRule.cs
  ▶ C= IPerson.cs
   MainWindow.xaml
    MainWindow.xaml.cs
  ▶ C# Patient.cs
  \triangleright
     C* PatientAgeRule.cs
  \triangleright
      PatientGender.cs
  \triangleright
      PatientList.cs
     PatientNameRule.cs
  \triangleright
  ▶ C= PatientService.cs
  ▶ C= Person.cs
  ▶ SignIn.xaml
```

9.) File saving and retrieving:

```
XML FILE OPERATIONS
//Reading Data from xml
public void ReadFromXML()
   AppointmentList aptList = null;
   string path = "Final4.xml";
   XmlSerializer serializer = new XmlSerializer(typeof(AppointmentList));
   StreamReader reader = new StreamReader(path);
   aptList = (AppointmentList)serializer.Deserialize(reader);
   reader.Close();
   appointmentList = aptList;
//writing data to xml
public void WriteToXML(AppointmentList appointmentList)
   AppointmentList aptList = appointmentList;
   XmlSerializer serializer = new XmlSerializer(typeof(AppointmentList));
   TextWriter txtWriter = new StreamWriter("Final4.xml");
   serializer.Serialize(txtWriter, aptList);
   txtWriter.Close();
   UpdateDataContext();
   dg_viewAppointments.Items.Refresh();
```

10.) LINQ

```
//searching

ireference
public void SearchAppointmentsByPatient(int pId)

{
    //Treated patients
    var qry = from appointment in appointmentList.Appointments where appointment.PtntId == pId && appointment.Status == StatusType.Treated select appointment;
    Classification clasf = new Classification("abc");
    clasf.Appointments = new ListAppointment>();
    clasf.Appointments = qry.ToList();
    DataContext = clasf;
    dg_viewAppointments.Items.Refresh();
}

ireference
yar qry = from appointmentByAppointmentType(AppointmentType appointmentType)

{
    //Searching for pending services
    var qry = from appointment in appointmentList.Appointments where appointmentType== appointmentType && appointment.Status == StatusType.Pending select appointment;
    clasf.Appointments = new ListAppointment>();
    clasf.Appointments.Items.Refresh();
}
```

CLASS DIAGRAM:

