Home Controller:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Net;
using System.Net.Http;
using System.Web.Http;
using WebAPIPractice.Models;

namespace WebAPIPractice.Controllers
{
   public class Home1Controller : ApiController
   {
      public static List<User> usersList = new List<User>()
      {
         new
User{id=1,name="yamini",email="yamini@gmail.com",password="welcome",jobStatus=true}
      };

      [HttpGet]
      public List<User> getUsers()
      {
         //http://localhost:64838/api/Home1/getUsers
         try
         {
            usersList = DBConnection.getDataFromTable();
            //usersList = DBConnection.getDataOfSpecifiedUser();
         }
         catch(Exception e)
         {
            Console.WriteLine(e.Message);
         }
         return usersList;
      }

      [HttpPost]
      public string addUser(User u1)
      {
         string response = string.Empty;
         try
         {
            usersList.Add(u1);
            DBConnection.insertDataIntoTable(u1);
```

```
            response = "User added succesfully";
        }
        catch(Exception e)
        {
            Console.WriteLine(e.Message);
        }
        return response;
    }

    [HttpPut]
    public string updateUser(User u1)
    {
        string response = string.Empty;
        try
        {
            if(usersList.Exists(x=>x.id==u1.id))
            {
                //usersList.FindAll(x => x.id == u1.id)[0].email = u1.email;
                DBConnection.updateDataInTable(u1);
                response = "User updated succesfully";
            }
            else
            {
                response = "User not exist in the list";
            }
        }
        catch(Exception e)
        {
            Console.WriteLine(e.Message);
        }
        return response;
    }

    [HttpDelete]
    public string deleteUser(int id)
    {
        string response = string.Empty;
        try
        {
            if (usersList.Exists(x => x.id == id))
            {
                //usersList.FindAll(x => x.id == id);
                DBConnection.deleteDataFromTable(id);
                response = "User deleted succesfully";
```

```
            }
            else
            {
                response = "User not exist to delete from the list";
            }
        }
        catch (Exception e)
        {
            Console.WriteLine(e.Message);
        }
        return response;
    }

    [HttpGet]
    [Route("api/home1/getSpecifiedUser")]
    public List<User> getSpecifiedUser(int id)
    {
        //http://localhost:64838/api/Home1/getUsers
        try
        {
            usersList = DBConnection.getDataOfSpecifiedUser(id);
        }
        catch (Exception e)
        {
            Console.WriteLine(e.Message);
        }
        return usersList;
    }
  }
}
```

User Class:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;

namespace WebAPIPractice.Models
{
```

```
    public class User
    {
        public int id;
        public string name;
        public string email;
        public string password;
        public bool jobStatus;
    }
}
```

DB Connection:

```
using System;
using System.Collections.Generic;
using System.Data;
using System.Data.Common;
using System.Data.SqlClient;
using System.Linq;
using System.Web;

namespace WebAPIPractice.Models
{
    public class DBConnection
    {
        public static List<User> getDataFromTable()
        {
            List<User> usersList = new List<User>();
            try
            {
                SqlConnection conn = new SqlConnection("Data Source = 192.168.1.9; Database =
Training2022; User Id = tuser; Password = tecra1@3");
                conn.Open();
                string query = $"select * from _txtFileUser";
                SqlCommand cmd = new SqlCommand(query, conn);
                //SqlCommand cmd = new SqlCommand("sp_getData", conn);

                SqlDataReader reader = cmd.ExecuteReader();
                if (reader.HasRows)
                {
```

```
            foreach (DbDataRecord row in reader)
            {
               User UserObj = new User();
               UserObj.id = row.GetInt32(0);
               UserObj.name = row.GetString(1);
               UserObj.email = row.GetString(2);
               UserObj.password = row.GetString(3);
               UserObj.jobStatus = row.GetBoolean(4);

               usersList.Add(UserObj);
            }
         }
         conn.Close();
      }
      catch (Exception e)
      {
         Console.WriteLine(e.Message);
      }
      return usersList;
   }
   public static void insertDataIntoTable(User userData)
   {
      try
      {
         SqlConnection conn = new SqlConnection("Data Source = 192.168.1.9; Database =
Training2022; User Id = tuser; Password = tecra1@3");
         conn.Open();
         //string query = $"insert _txtFileUser
values({userData.id},'{userData.name}','{userData.email}','{userData.password}',{(userData.jobS
tatus ? 1 : 0)})";
         //SqlCommand cmd = new SqlCommand(query, conn);

         SqlCommand cmd = new SqlCommand("sp_insertUser", conn);
         cmd.CommandType = CommandType.StoredProcedure;
         cmd.Parameters.Add("@id", SqlDbType.Int).Value = userData.id;
         cmd.Parameters.Add("@name", SqlDbType.NVarChar).Value = userData.name;
         cmd.Parameters.Add("@email", SqlDbType.NVarChar).Value = userData.email;
         cmd.Parameters.Add("@password", SqlDbType.NVarChar).Value = userData.password;
         cmd.Parameters.Add("@status", SqlDbType.Bit).Value = userData.jobStatus;
         cmd.ExecuteNonQuery();
         conn.Close();
      }
      catch (Exception e)
      {
```

```
            Console.WriteLine(e.Message);
        }
    }


    public static void updateDataInTable(User u1)
    {
        try
        {
            SqlConnection conn = new SqlConnection("Data Source = 192.168.1.9; Database =
Training2022; User Id = tuser; Password = tecra1@3");
            conn.Open();
            //string query = $"update _txtFileUser set email = '{u1.email}' where id='{u1.id}'";
            //SqlCommand cmd = new SqlCommand(query, conn);
            SqlCommand cmd = new SqlCommand("sp_updateUser1", conn);
            cmd.CommandType = CommandType.StoredProcedure;
            //cmd.Parameters.Add("@id", SqlDbType.Int).Value = u1.id;
            cmd.Parameters.Add("@name", SqlDbType.Int).Value = u1.name;
            cmd.Parameters.Add("@email", SqlDbType.NVarChar).Value = u1.email;
            cmd.ExecuteNonQuery();
            conn.Close();
        }
        catch (Exception e)
        {
            Console.WriteLine(e.Message);
        }
    }
    public static void deleteDataFromTable(int id)
    {
        try
        {
            SqlConnection conn = new SqlConnection("Data Source = 192.168.1.9; Database =
Training2022; User Id = tuser; Password = tecra1@3");
            conn.Open();
            //string query = $"delete from _txtFileUser where id={id}";
            //SqlCommand cmd = new SqlCommand(query, conn);
            SqlCommand cmd = new SqlCommand("sp_deleteUser1", conn);
            cmd.CommandType = CommandType.StoredProcedure;
            cmd.Parameters.Add("@id", SqlDbType.Int).Value = id;
            cmd.ExecuteNonQuery();
            conn.Close();
        }
        catch(Exception e)
        {
```

```
            Console.WriteLine(e.Message);
        }
    }

    public static List<User> getDataOfSpecifiedUser(int id)
    {
        List<User> userData = new List<User>();
        try
        {
            SqlConnection conn = new SqlConnection("Data Source = 192.168.1.9; Database =
Training2022; User Id = tuser; Password = tecra1@3");
            conn.Open();
            string query = $"select * from _txtFileUser where id = {id}";
            SqlCommand cmd = new SqlCommand(query, conn);
            //SqlCommand cmd = new SqlCommand("sp_getDataOf1User", conn);

            SqlDataReader reader = cmd.ExecuteReader();
            if (reader.HasRows)
            {
                foreach (DbDataRecord row in reader)
                {
                    User u1 = new User();
                    u1.id = row.GetInt32(0);
                    u1.name = row.GetString(1);
                    u1.email = row.GetString(2);
                    u1.password = row.GetString(3);
                    u1.jobStatus = row.GetBoolean(4);

                    userData.Add(u1);
                }
            }
            conn.Close();
        }
        catch (Exception e)
        {
            Console.WriteLine(e.Message);
        }
        return userData;
    }
  }
}
```