1. Under the *Models* folder the model named Course containing the following:

public class Course

{

public int CourseId { get; set; }

public string CourseName { get; set; }

}

1. Under the *Models* folder the model named Faculty containing the following:

public class Faculty

{

public int FacultyId { get; set; }

public string FacultyName { get; set; }

public List<Course> AllotedCourses { get; set; }

}

1. Under the *Models* folder the model named Student containing the following:

public class Student

{

public int EnrollmentNo { get; set; }

public string StudentName { get; set; }

public List<Course> EnrolledCourses { get; set; }

}

1. Add a class file under the *Models* folder named as *Repository.cs* file, which will have the implementation of methods to get hardcoded data for application in order to keep it convenient.

Following is the code for GetCourse method which will return a list of courses:

public List<Course> GetCourses()

{

return new List<Course> {

new Course () { CourseId = 1, CourseName = "Chemistry"},

new Course () { CourseId = 2, CourseName = "Physics"},

new Course () { CourseId = 3, CourseName = "Math" },

new Course () { CourseId = 4, CourseName = "Computer Science" }

};

}

Following is the code GetFaculties method which will return a list of faculties:

public List<Faculty> GetFaculties()

{

return new List<Faculty> {

new Faculty () { FacultyId = 1, FacultyName= "Prakash",

AllotedCourses = new List<Course>

{new Course () { CourseId = 1, CourseName = "Chemistry"},

new Course () { CourseId = 2, CourseName = "Physics"},

new Course () { CourseId = 3, CourseName = "Math"},

}},

new Faculty () { FacultyId = 2, FacultyName= "Ponty" ,

AllotedCourses = new List<Course>

{new Course () { CourseId = 2, CourseName = "Physics"},

new Course () { CourseId = 4, CourseName = "Computer Science"}

}},

new Faculty () { FacultyId = 3, FacultyName= "Methu",

AllotedCourses = new List<Course>

{new Course () { CourseId = 3, CourseName = "Math"},

new Course () { CourseId = 4, CourseName = "Computer Science"}

}}

};

}

Following is the code for GetStudents method which will return a list of students:

public List<Student> GetStudents()

{

List<Student> result = new List<Student> {

new Student () { EnrollmentNo = 1, StudentName= "Jim",

EnrolledCourses = new List<Course>

{ new Course () { CourseId = 1, CourseName = "Chemistry"},

new Course () { CourseId = 2, CourseName = "Physics"},

new Course () { CourseId = 4, CourseName = "Computer Science"}

}},

new Student () { EnrollmentNo = 2, StudentName= "Joli",

EnrolledCourses = new List<Course>

{ new Course () { CourseId = 2, CourseName = "Physics"} ,

new Course ()

{ CourseId = 4, CourseName = "Computer Science"}

}},

new Student () { EnrollmentNo = 3, StudentName= "Mortin",

EnrolledCourses = new List<Course>

{ new Course () { CourseId = 3, CourseName = "Math"},

new Course () { CourseId = 4, CourseName = "Computer Science"}

}}

};

return result;

}