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;

}