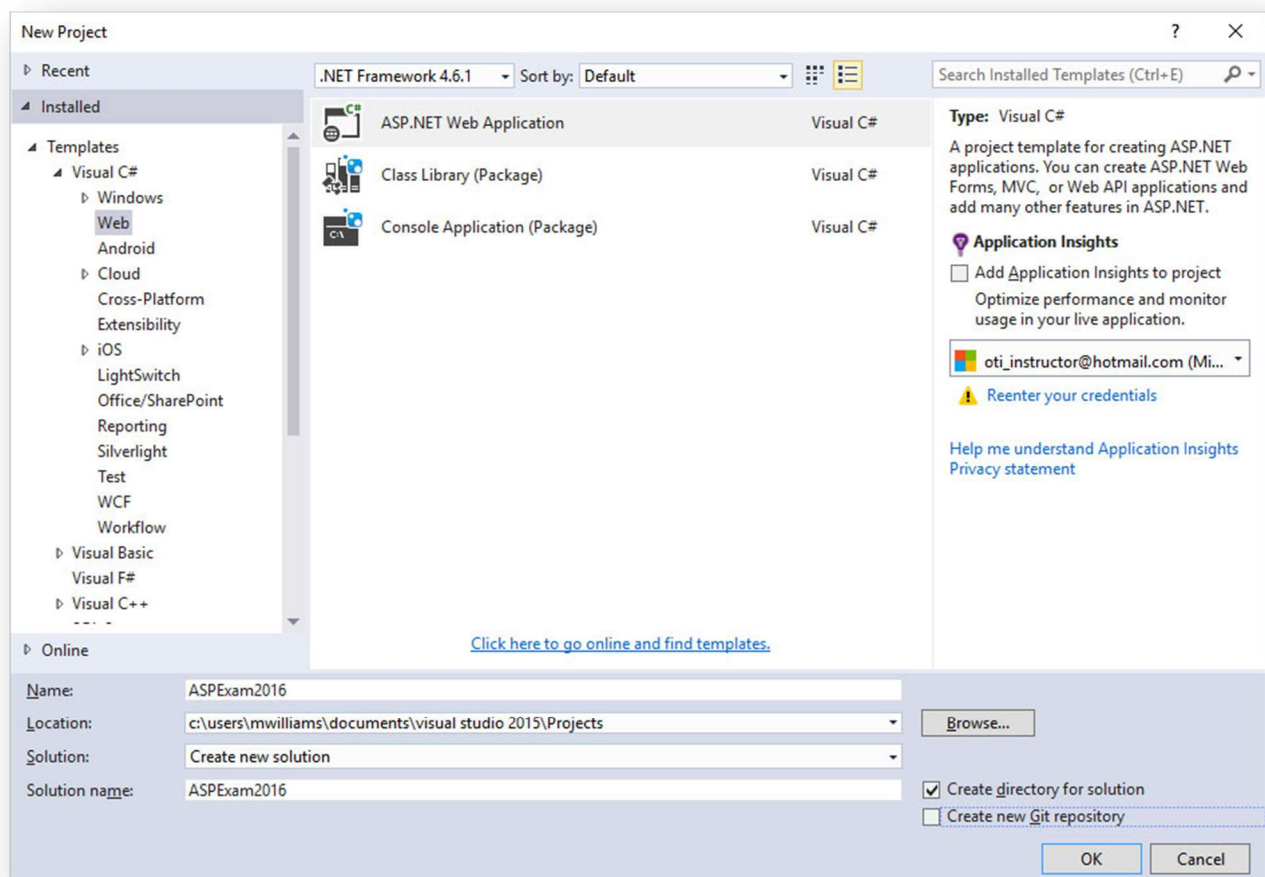


## Building Web Applications with ASP.NET MVC5 Using Visual Studio 2015 (ADP-102)

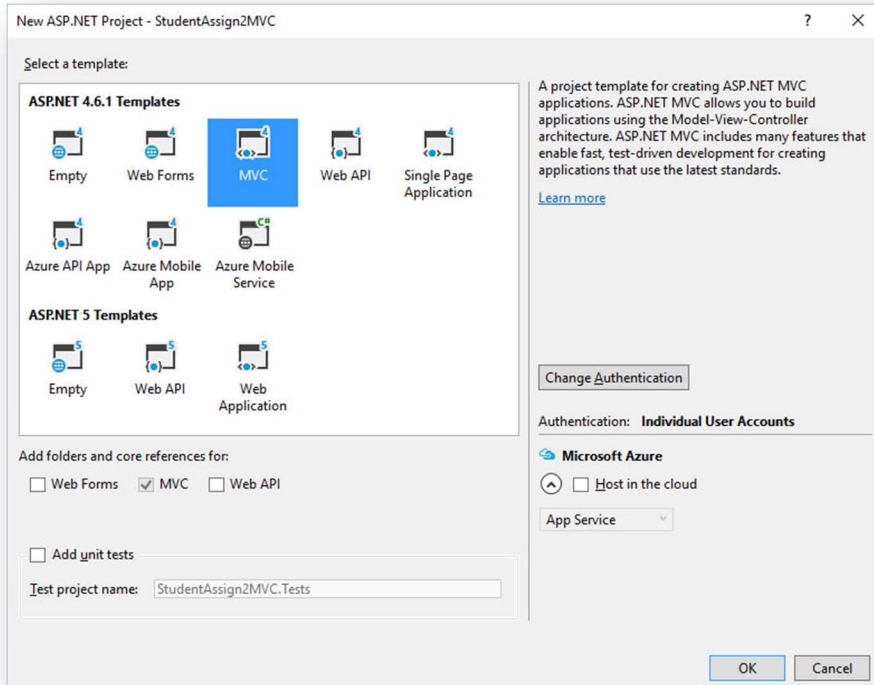
### Final Exam

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Create a new Visual Studio 2015 Project. This project will be an ASP.NET Web Application using the Visual C# programming language.

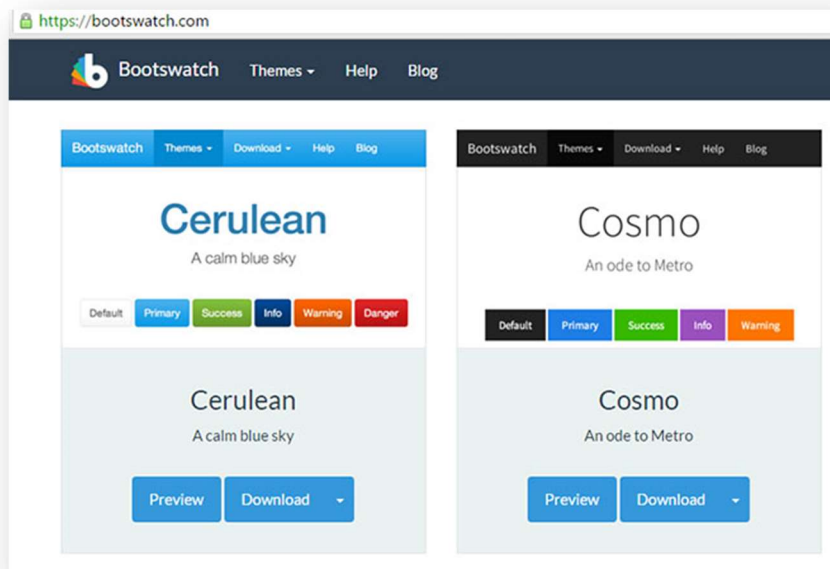


Select the MVC Template (using ASP.NET 4.6.1 Templates)



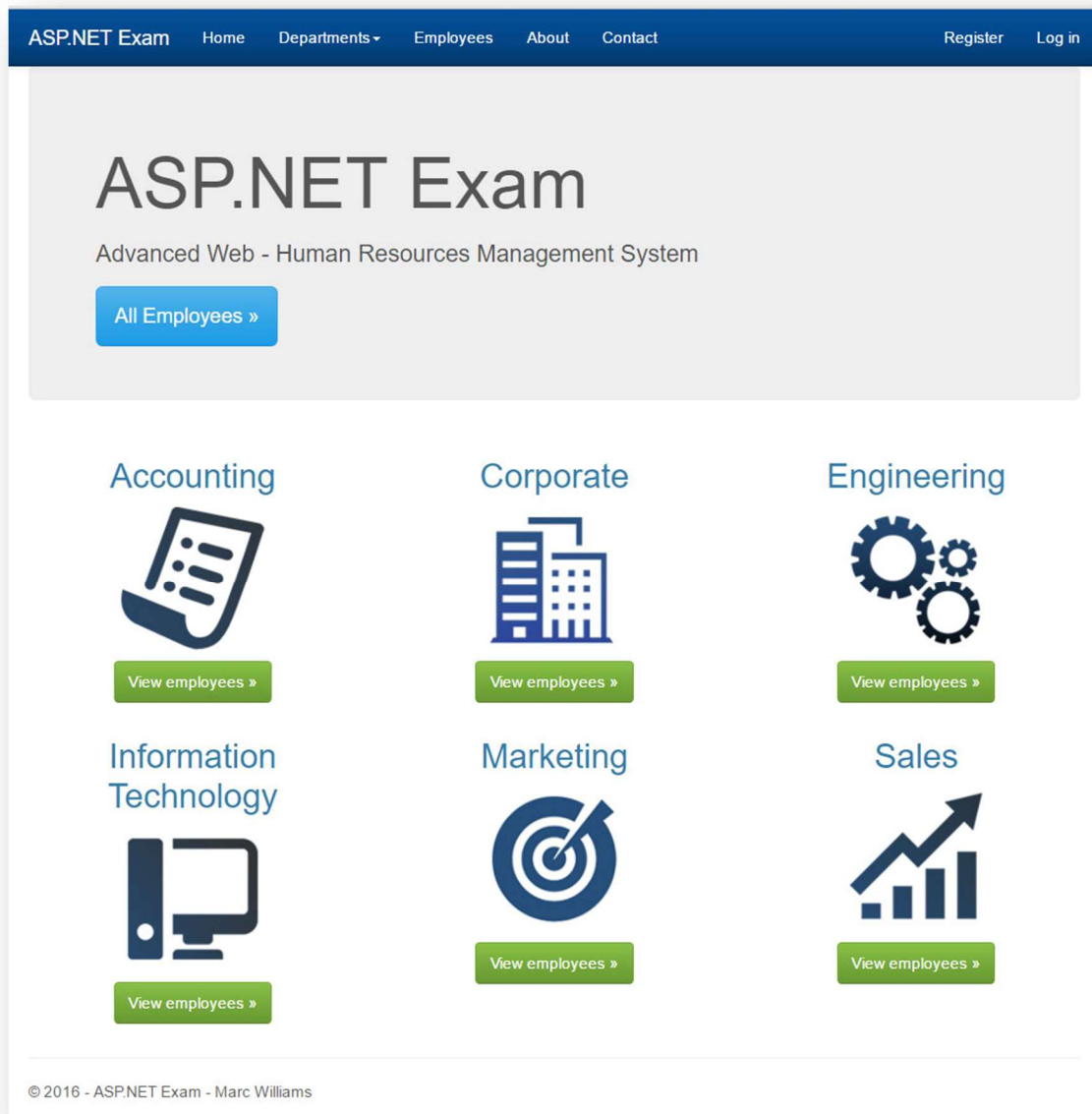
## Bootstrap Theme

Change the default bootstrap theme by replacing the bootstrap.css by downloading one of the free themes from <https://bootswatch.com/>



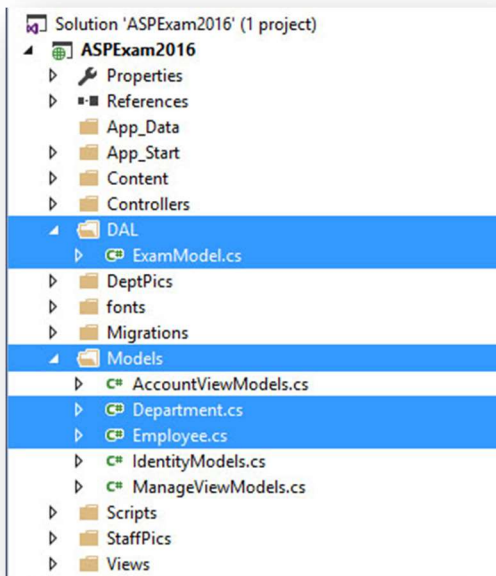
## Layout

Make appropriate changes to text for layout and home views



## Models

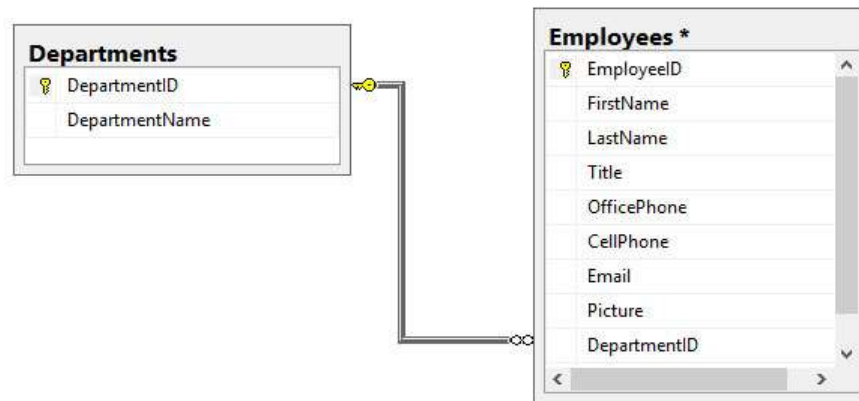
Create the following data model classes:



Include appropriate data annotations to enforce business rules

- Required
- String length
- Data Type
- Display

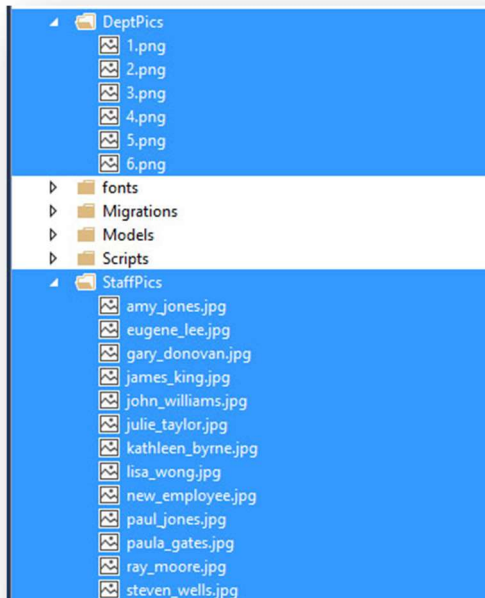
Make sure to allow lazy loading and add all necessary navigation properties



## Entity Framework Code First Migrations

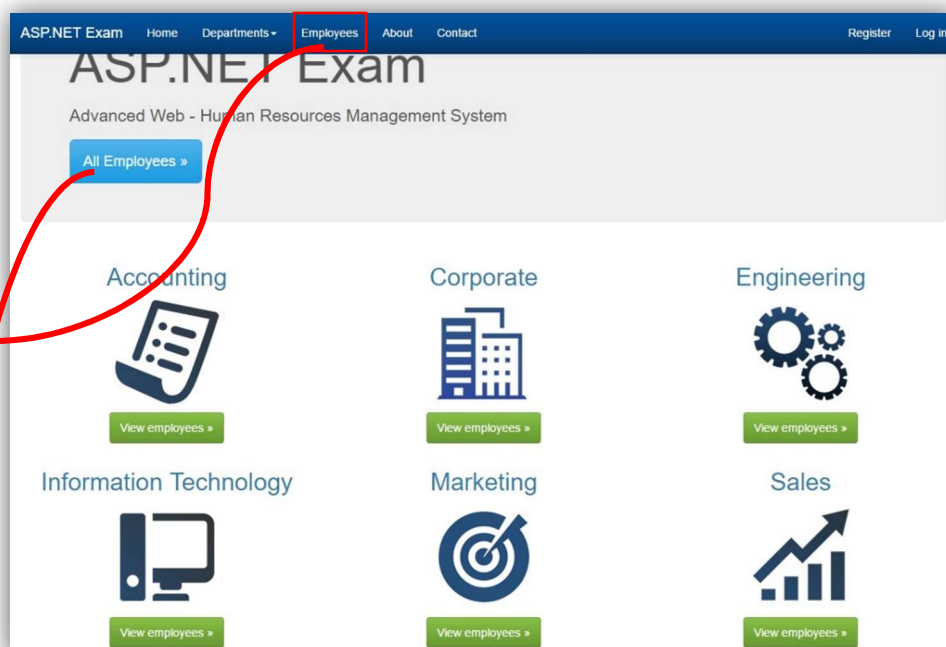
- Adjust the connection string within the Web.config file to your liking
- Enable Entity Framework Code First Migrations for the ExamModel
- Add a new migration called "InitialCreate" for the ExamModel
- Update the database
- Populate the departments and employees tables using the Instructor provided SQL Script. Run this script within you SQL Server Management Studio

Add the instructor provided images to your solution (DeptPics and StaffPics).



Use scaffolding to create the MVC controller and views for the departments and employees

Home – Index











Display a list of departments

## Employee - Index

[ASP.NET Exam](#) [Home](#) [Departments](#) [Employees](#) [About](#) [Contact](#) [Register](#) [Log in](#)


### All Employees

 <b>James King</b> President and CEO <a href="#">View</a>	 <b>Julie Taylor</b> VP of Marketing <a href="#">View</a>	 <b>Eugene Lee</b> CFO <a href="#">View</a>	 <b>John Williams</b> VP of Engineering <a href="#">View</a>
			

## Employee - Details

**James King (President and CEO)**

[Edit](#) [Delete](#)



**Department :** Corporate

**Title :** President and CEO

**Office Phone :** 617-000-0001

**Cell Phone :** 781-000-0001

**Email :** jking@fakemail.com

[Back to List](#)

## Employee - Edit

ASP.NET Exam Home Departments Employees About Contact

### Edit Employee

First Name:

Last Name:

Title:

Office Phone:

Cell Phone:

Email:

Picture:

DepartmentID:

[Back to List](#)


## Employee - Delete

ASP.NET Exam Home Departments Employees About Contact

### Delete

Are you sure you want to delete this employee?

Full Name : James King  
Title : President and CEO  
Department : Corporate  
Picture : james\_king.jpg



The Back to details button will go back to the details for the same employee

## Employee - EmployeeByDept

ASP.NET Exam



### Engineering



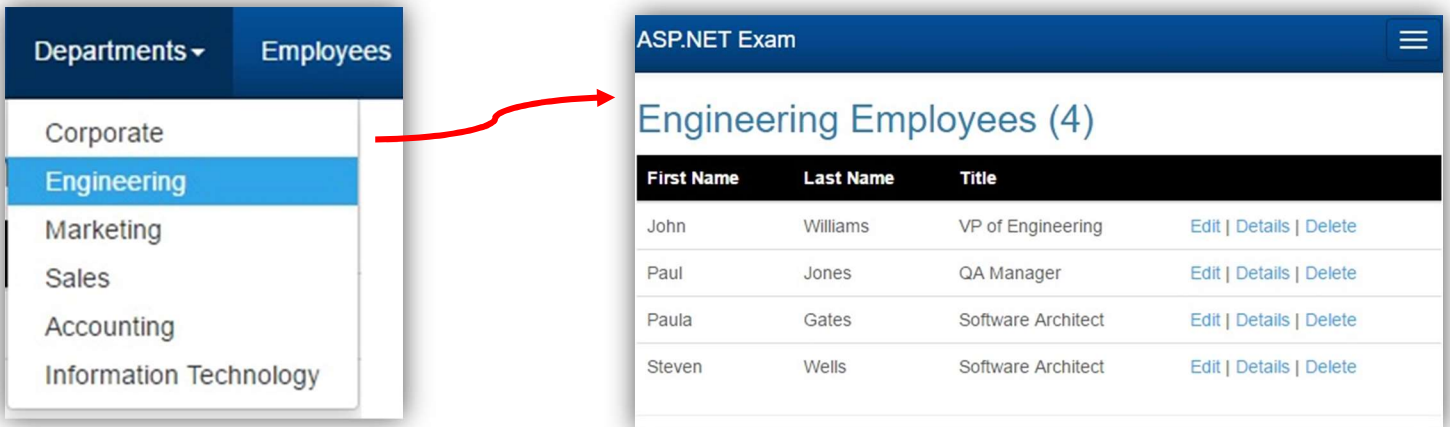
ASP.NET Exam

### Engineering Employees (4)

First Name	Last Name	Title	
John	Williams	VP of Engineering	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
Paul	Jones	QA Manager	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
Paula	Gates	Software Architect	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
Steven	Wells	Software Architect	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>

## Layout – Dropdown menu

Create a **partial view** that will list each department name within a bootstrap dropdown list. Each department will link to the same page as above (EmployeeByDept) showing each employee within the selected department.



## Custom Routes

Create a new custom route for the EmployeeByDept action. For example:

Old Route	New Custom Route
http://localhost:xxx/Employee/EmployeeByDept?name=Corporate	http://localhost:xxx/Employees/Corporate
http://localhost:xxx/Employee/EmployeeByDept?name=Engineering	http://localhost:xxx/Employees/ Engineering
http://localhost:xxx/Employee/EmployeeByDept?name=Marketing	http://localhost:xxx/Employees/ Marketing
http://localhost:xxx/Employee/EmployeeByDept?name=Sales	http://localhost:xxx/Employees/ Sales
http://localhost:xxx/Employee/EmployeeByDept?name=Accounting	http://localhost:xx/Employees/ Accounting
Etc...	Etc...



## Special

When no employees are working in a selected department. For example, there are no employees working in the Information technology department. The view will look like this.

