Controller/HomeController.cs

**using** **HW6.Models**;

**using** **System**;

**using** **System.Collections.Generic**;

**using** **System.Collections.Specialized**;

**using** **System.Data.Entity.Core**;

**using** **System.Data.Entity.Infrastructure**;

**using** **System.Data.Entity.Validation**;

**using** **System.Diagnostics**;

**using** **System.Linq**;

**using** **System.Web**;

**using** **System.Web.Mvc**;

**namespace** **HW6.Controllers**

{

*/// <summary>*

*/// Convenience class to organize the category and subcategories in a way easy to display*

*/// </summary>*

**public** **class** **CategoryHolder**

{

**public** String categoryName;

**public** List<String> subCategories = **new** List<String>();

}

**public** **class** **HomeController** : Controller

{

**private** ProductionModel prodModel = **new** ProductionModel();

*/// <summary>*

*/// Initial homepage*

*/// </summary>*

*/// <returns></returns>*

**public** ActionResult Index()

{

ViewBag.categories = BuildCategories();

**return** View();

}

*/// <summary>*

*/// Post method for main page. Called after a sub category button was clicked.*

*/// </summary>*

*/// <param name="button">Holds the name of the sub category button which was clicked.</param>*

*/// <returns></returns>*

[HttpPost]

**public** ActionResult Index(string button)

{

List<Product> allProducts = **new** List<Product>();

**foreach** (Product prod **in** prodModel.Products)

{

**if** (prod.ProductSubcategory != **null** &&

prod.ProductSubcategory.Name == button)

{

allProducts.Add(prod);

}

}

**if** (allProducts.Count == 0)

{

**foreach** (Product prod **in** prodModel.Products)

{

**if** (prod.Name == button)

{

ViewBag.product = prod;

**return** View("ProductReviews", prod.ProductReviews);

}

}

**return** View("Index");

}

**else**

{

ViewBag.products = allProducts;

**return** View("ProductsView");

}

}

*/// <summary>*

*/// Returns a list of the category and sub category options.*

*/// </summary>*

*/// <returns></returns>*

**public** List<CategoryHolder> BuildCategories()

{

List<CategoryHolder> catHolder = **new** List<CategoryHolder>();

**foreach** (ProductCategory category **in** prodModel.ProductCategories)

{

CategoryHolder newHolder = **new** CategoryHolder();

newHolder.categoryName = category.Name;

**foreach** (ProductSubcategory subCat **in** category.ProductSubcategories)

{

newHolder.subCategories.Add(subCat.Name);

}

catHolder.Add(newHolder);

}

**return** (catHolder);

}

*/// <summary>*

*/// Giving a review page for a product*

*/// </summary>*

*/// <returns></returns>*

[HttpPost]

**public** ActionResult ProductReviews()

{

**return** View();

}

*/// <summary>*

*/// Giving initial review form page*

*/// </summary>*

*/// <returns></returns>*

**public** ActionResult AddReview()

{

**return** View(**new** ProductReview());

}

*/// <summary>*

*/// Adds a review to the database*

*/// </summary>*

*/// <param name="review">The review to add</param>*

*/// <returns></returns>*

[HttpPost]

**public** ActionResult AddReview(ProductReview review)

{

**if** (ModelState.IsValid)

{

review.ModifiedDate = DateTime.Now;

**foreach** (Product prod **in** prodModel.Products)

{

**if** (prod.ProductID == review.ProductID)

{

review.Product = prod;

prod.ProductReviews.Add(review);

**break**;

}

}

prodModel.SaveChanges();

}

ViewBag.categories = BuildCategories();

**return** RedirectToAction("Index");

}

}

}

Views/Index.cshtml

@{

ViewBag.Title = "Index";

}

**<script>**

**function** Empty() {

alert("empty");

}

**function** BuildSubCat() {

**for** (**var** index = 0; index < 100; index++) {

**var** element = document.getElementById("hider " + index);

**if** (element != **null**) {

document.getElementById("hider " + index).style.display = 'none';

}

}

**var** topCat = document.getElementById("topSelect").value;

**var** finalid = "hider " + topCat;

document.getElementById(finalid).style.display = 'inline-block';

}

**function** SubmitSubCat() {

alert("submit sub cat");

}

**</script>**

**<h2></h2>**

**<a** href="/Home/AddReview" class="btn btn-info" role="button"**>**Add Review**</a>**

**<h2>**Select Items**</h2>**

**<div** class="dropdown"**>**

**<h4>**Category**</h4>**

**<select** id="topSelect" class="form-control" onchange="BuildSubCat()"**>**

@for (int index = 0; index **< ViewBag.categories.Count**; index++)

{

<option value="@index"**>**@ViewBag.categories[index].categoryName**</option>**

}

**</select>**

**<h4>**SubCategory**</h4>**

**<form** method="post"**>**

**<div** class="btn-group" role="group" aria-label="..."**>**

@for (int index = 0; index **< ViewBag.categories.Count**; index++)

{

<div id="hider @index" style="display: none;"**>**

@foreach (var item in ViewBag.categories[index].subCategories)

{

**<button** type="submit" value="@item" name="button" class="btn btn-default"**>**@item**</button>**

}

**</div>**

}

**</div>**

**</form>**

**</div>**

Views/ProductsView.cshtml

@model IEnumerable**<HW6.Models.Product>**

@{

ViewBag.Title = "ProductsView";

}

**<h2>**Products Listing**</h2>**

**<form>**

**<button** class="btn btn-default"**>**New Search**</button>**

**</form>**

**<div** class="container"**>**

**<br** **/>**

@foreach (var item in ViewBag.products)

{

**<div** class="item col-xs-4 col-lg-4"**>**

**<div** class="thumbnail"**>**

**<div** class="caption"**>**

**<h4** class="group inner list-group-item-heading"**>**

@item.Name, @item.ProductID

**</h4>**

@if (@item.Size != null)

{

**<p** class="group inner list-group-item-text"**>**

Size: @item.Size **<br** **/>**

Style: @item.Style**<br** **/>**

**</p>**

}

**<div** class="row"**>**

**<div** class="col-xs-12 col-md-6"**>**

**<p** class="lead"**>**

$@item.ListPrice

**</p>**

**</div>**

**<div** class="col-xs-12 col-md-6"**>**

**<form** method="post"**>**

**<button** type="submit" value="@item.Name" name="button" class="btn btn-default"**>**View Reviews**</button>**

**</form>**

**</div>**

**</div>**

**</div>**

**</div>**

**</div>**

}

**</div>**

**<br** **/>**

**<p></p>**