

**Ahsanullah University of Science & Technology**

**Department of Computer Science and Engineering**

**Course No: CSE3223**

Course Title: Information System Design and Software Engineering

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| **Group Number : 03** |  |
| **Group Members :** |  |
| 17.01.04.062 | Minhajul Islam Ashik |
| 17.01.04.063  17.01.04.064  17.01.04.069 | Ishrak Ahmed Resham  Sabrina Binte Zahir  Shazid Morshedul Haque |
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**Project Name: DharDorkar**

DharDorkar is an online website based Lending Platform. Through our website, customers can view and lend many useful and reusable items. They can order these products and use them for a certain period of time. After that they will return those products to us.

DharDorkar website was made using MVC 5 pattern. There are 3 parts: Model, View, and Controller. This website was made using ASP.net, C#, Bootstrap, CSS, JS, Html. There is a database named dbDharDorkar. This database was made using SQL server. There are four tables’ names:

1.Tbl\_Category

2.TBL\_Product

3.Tbl\_Order

4.SiteUsers

**Tbl\_Category**: This table contains category of a product.

**Tbl\_Product**: This table stores product name, quantities available, price, product image, description of a product.

**Tbl\_Order**: This table stores the information of a customer. Customer name, picture of customer’s national Idcard, address of a customer, email of customer, phone no of a customer and the products info they are lending.

**SiteUsers**: This table is for login and registrations.

There are three controllers. They are:

1.AdminController

2.HomeController

3.RegisterController

We used interface names IRepository and implemented in GenericRepository and GenericUnitOfWork.

Here we wrote multiple methods which we were going to use multiple times in our project.

void Add(Tbl\_Entity entity) : This is for adding a new row or storing new data in database tables.

void Update(Tbl\_Entity entity) : This is for updating already stored value.Such we added a product But we gave some wrong info and now we need to update the information. In this case we used void Update.

void Remove(Tbl\_Entity entity) : This is for removing data from Database.

IEnumerable<Tbl\_Entity> GetProduct() : This is for fetching data from tbl\_product as a list.

public IEnumerable<Tbl\_Entity> GetCategory() : This is for fetching data from tbl\_category.

public IEnumerable<Tbl\_Entity> GetAllRecords() : This is used for fetching records from any table from database.

public Tbl\_Entity GetFirstorDefault(int recordId) : This is for fetching data of a specified row using its id.

There are three controllers in this project:

**1. AdminController**: This controller handles the admin side of the project. Such as new product entry, edit existing product, delete product, add new category, edit category name,view order details. Here at first we made an object of GenericUnitOfWork so that we can use previous mentioned methods.

public ActionResult Dashboard() : We used an admin dashboard to for view. This returns the view of dashboard. Here ActionResult is the result of action when it executes. ActionResult type is coming from System.Web.Mvc assembly. This method returns a view named Dashboard.

public ActionResult Categories() : Here we load the existing category in the view and returns the view. We get category using GetAllRecordsIQueryable which was inside IRepository and defined in GenericRepository.

public ActionResult CategoryEdit() : This method is used for edit the name of a category or delete a category.

public ActionResult CategoryAdd() : This is used to add a new category.

public ActionResult Orders() : It is used for fetching orders which was given by a customer.

public ActionResult OrderDetails() : This method is for viewing the details information of an order.

public ActionResult Product() : This method is for getting all the products that is already in the database.

public ActionResult ProductEdit() : With this we are able to view a page where we are able to edit the data of a specific product. There is an HTTPPost productedit method where we edit and update and save the changes.

public ActionResult ProductAdd() : This is used for adding a new product. There is an HTTPpost method to add new product using ADD method.

There is a another controller named **HomeController**

**2.HomeController** : Here we are working with the pages that a customer can access. First of all there is Homepage, Contact page, Products, Category wise sorted pages, Cart system, Product Details page, CheckOut Page and final Checkout page.

public ActionResult Index() : Here we did the work of Index page where product is loaded from database and using a sql procedure we are searching with keyword or category name and we also used this as paging using PagedList.MVC.

public ActionResult AllProduct() : This method is for category wise sorted product page.

public ActionResult ProductDetails():This is for viewing details of a specific product.

public ActionResult Checkout() : This method is for checkout page where customer can view what products they have added in the cart. They can add or remove from here.

public ActionResult CheckoutDetails() : In this we have showed the item from cart, their quantities, total price .And We take the information of the customer.

public ActionResult AddToCart() : This is for adding products to the cart.

public ActionResult RemoveFromCart() : This is for removing products from the cart.

There is another controller which is named **RegisterController**.

3. **RegisterController** : In this controller we have done the work of login and registration.In this website customer don’t need to login or signup to order.But admin have to register and login to get access to the admin dashboard where he can manage the website.

public JsonResult SaveData **:** This method is for saving data to be consumed by a client.

public JsonResult RegisterConfirm() : This method is for confirming registration.

public void BuildEmailTemplate() : This method is for building a template email.

public static void SendEmail() **: This** method is for sending an email.

There are four types of views

1. **Admin**
2. **Home**
3. **Login/Registration**
4. **Shared**

**Admin**: In admin there is a page Dashboard. There are pages called Categories, CategoryAdd, CategoryEdit, Products, ProductAdd, ProductEdit, Order. All these pages follows AdminLayout named shared viewspage.

**Home:** In this section, there are pages named Index, Contact, ProductDetails, Checkout, CheckoutDetails . All these pages follow the layout named shared view page.

**Login/Registration**: In this section, there are fields for signing up or logging in using name, password, mail and other basic details needed to access the website.

**Shared**: In this section, \_AdminLayout, \_Layout these pages can be found. \_AdminLayout page is used to follow the Admin realted pages and functions. On the other hand, \_Layout page is followed by the view pages.

**Contributions:**

Here’s a brief description of the contribution from each members:

-Minhajul Islam Ashik (170104062) mostly handled the HomeController and RegisterController part.

-Ishrak Ahmed Resham (170104063) mostly took over the AdminController part.

-Shazid Morshedul Haque (170104069) looked into the Home and Shared view pages.

-Sabrina Binte Zahir (170104064) basically designed the Admin view pages.