



## SHOPPING MALL MANAGEMENT SYSTEM

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## ACKNOWLEDGEMENT

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- Muhammad Ibrahim

- Ubaid Ahmad

-Muhammad Sohaib

### Summary:

The ABCD malls situated in sub-urban place of Mumbai and was opened by ABCD Developers Pvt Ltd. The 250,000 sq ft (23,000 m<sup>2</sup>) mall with a frontage of 700 ft (210 m). It was designed by Cooper and their partners. R Mall is a 4-storeyed air-conditioned mall covering an area of approximately 80,000 sq ft (7,000 m<sup>2</sup>) on each floor. The site includes a 7 level car parking facility.

The owner of the mall wants to develop the website of their mall in order to advertise its construction and features. For these they have approached you to create the website.

The experts have given the requirements they have expected in the website:

#### Home Page:

- In the centre it must display the image of the mall with some relevant information about it.
- The links must be shown for navigating the sites and to explore the features of the mall.

#### Features of functionalities:

- There should be a separate module for using the admin features and the client features.
- Admin will have the properties of editing the data of the mall like editing the name of the shop added, removed, deleted. While adding the details some images must be added in the website.
- Admin will also have the feature to edit the details of the movies of the mall
- Client will have the property to view the features and edit the desired section them.
- The mall has an advantage features that allow the customer to book the ticket online for the movie through the website.
- Feedback is taken from the customer
- Gallery section will be uploaded by the admin which consist of the pictures of various products available.

## Number Of Index

ACKNOWLEDGEMENT .....	2
Summary:.....	2
Home Page:.....	3
Features of functionalities:.....	3
Introduction .....	7
Key Features:.....	7
User-Friendly Experience:.....	8
Objective .....	8
• The Objective of this program is to give a sample project to work on real life projects. These applications help you build a larger more robust application.....	8
• The objective is not to teach you topic but to provide you with a real life scenario and help you create basic applications using the tools.....	8
• You can revise these chapters before you start with the project.....	8
• These programs should be done in the Lab sessions with assistance of the faculty if required.....	8
• It is very essential that a student has a clear understanding of the subject. ....	8
• Kindly get back @ eprojects@aptechfze.ae in case of any doubts regarding the application or its objectives.....	8
Technology Used.....	9
Website Future .....	9
Shopping Mall Website Features .....	9
Site Requirement .....	11
Website structure .....	12
Bootstrap Grid System .....	12
Process Diagram.....	13
Databasa Design.....	13
Website functionalities explanation: .....	14
Admin Module: .....	14
Client Module:.....	14
Website Figure .....	15
Home-2 .....	16
Admin Site Figures .....	23
Code Figures.....	27
Conclusion:.....	32

## **WEB SITE FIGURE**

Home 1.....	15
Home 2.....	16
Figure 3 .....	16
Figure 4 .....	17
Figure 5 .....	17
Figure 6 .....	18
Figure 7 .....	18
Figure 8 .....	19
Figure 9 .....	19
Figure 10 .....	20
Figure 11 .....	20
Figure 12 .....	21
Figure 13 .....	21
Figure 14 .....	22
Figure 15 .....	22
Figure 16 .....	23
Admin Figure 17.....	24
Admin Figure 18.....	24
Admin Figure 19.....	25
Admin Figure 20.....	25

Admin Figure 21 .....	26
Admin Figure 22 .....	26

## **ADMIN & CLIENT WEB CODE FIGURE**

Figure 23 .....	27
Figure 24 .....	27
Figure 25 .....	28
Figure 26 .....	28
Figure 27 .....	29
Figure 28 .....	29
Figure 29 .....	30
Figure 30 .....	30
Figure 31 .....	31
Figure 32 .....	31

## Introduction

### Welcome to the Ultimate Shopping Mall Experience

Our online service application revolutionizes the way you enjoy your time at the shopping mall. Designed with convenience in mind, our platform allows you to seamlessly book movie tickets, order food from your favorite vendors, and shop from a variety of stores—all from the comfort of your home.

#### Key Features:

**Cinema Booking:** Explore the latest movies, check showtimes, and book your seats in advance. No more long queues; your movie experience is just a few clicks away.

**Food Court Ordering:** Craving something delicious? Browse through menus from various food court vendors, place your order, and choose between pick-up or delivery. Enjoy your meal without the wait.

**Shop Listings:** Discover a wide range of shops within the mall, each offering unique products and services. Shop online and have your purchases delivered straight to your doorstep.

## User-Friendly Experience:

**Seamless Reservations:** Our easy-to-use reservation system allows you to book cinema seats, food court tables, and even schedule appointments with shops and services within the mall.

**Personalized Accounts:** Create your account to manage your bookings, orders, and preferences. Enjoy a personalized experience with exclusive offers and updates.

**Admin Dashboard:** For administrators, our powerful dashboard provides the tools needed to manage movie listings, food court menus, shop inventories, and user reservations effectively.

Join us and elevate your shopping mall experience. Convenient, efficient, and enjoyable—our application is designed to cater to all your needs in one place.

## Objective

- The Objective of this program is to give a sample project to work on real life projects. These applications help you build a larger more robust application.
- The objective is not to teach you topic but to provide you with a real life scenario and help you create basic applications using the tools.
- You can revise these chapters before you start with the project.
- These programs should be done in the Lab sessions with assistance of the faculty if required.
- It is very essential that a student has a clear understanding of the subject.
- Kindly get back @ eprojects@aptechfze.ae in case of any doubts regarding the application or its objectives.

## Technology Used

In order to meet the requirement of our project we have used following underlying technologies.

- I. HTML 5
- II. CSS 3
- III. Bootstrap-5
- IV. Java Script
- V. J-query
- VI. Font-Awesome
- VII. C#
- VIII. ASP .Net Core-08
- IX. SQL Server

## Website Future

Shopping Mall Website Features

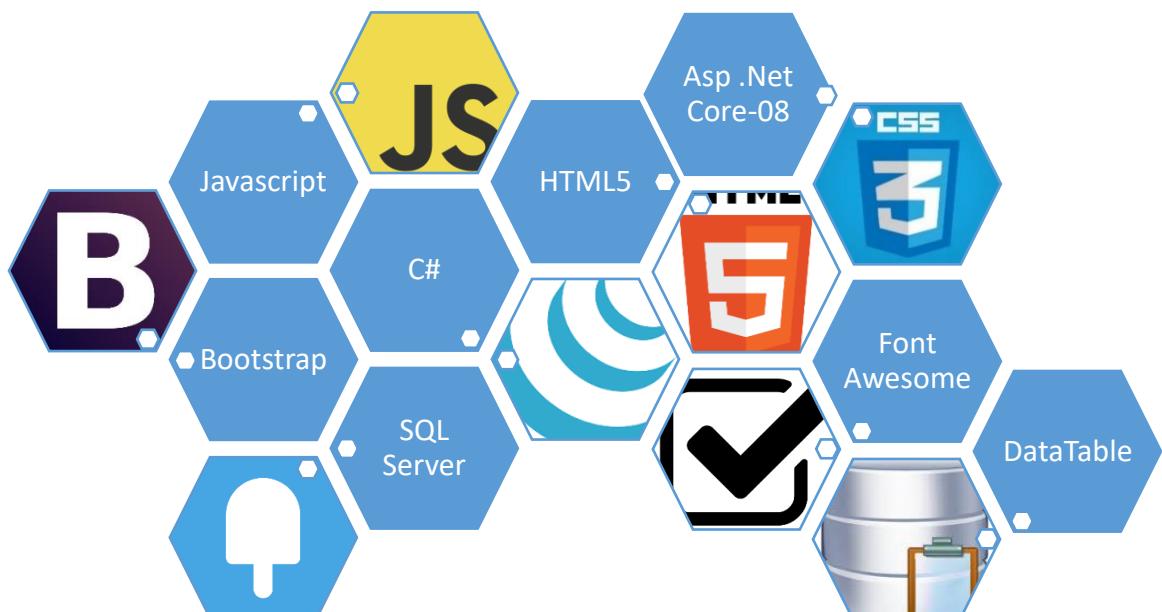
*Interactive Menu with Categories, Filters, and Search Functionality:*

- **User-Friendly Navigation:**

An interactive menu that categorizes options such as movies, food court vendors, and shops.

- **Advanced Search:**

Enable users to search for specific items or services across movies, food court menus, and shop inventories.



- **Filters:** Allow filtering based on categories, locations, availability, price range, and more.

#### *User Registration and Authentication:*

- **Account Creation:** Users can create accounts using email or social media accounts.
- **Login and Password Reset:** Implement secure login functionality and offer password reset options.
- **Social Media Integration:** Allow users to log in with social media accounts like Facebook, Google, etc.

#### *Food Court Listings:*

- **Comprehensive Details:** Provide detailed listings of food court vendors including name, description, cuisine type, location, opening hours, and contact information.
- **Search and Filter:** Users can search and filter vendors based on cuisine, location, availability, and price range.

#### *Movie Booking:*

- **Showtime Listings:** Display comprehensive movie listings with showtimes, descriptions, and ratings.
- **Seat Reservation:** Allow users to view available seats and book movie tickets for specific dates and times.
- **Confirmation and Notifications:** Send confirmation and reminder notifications via email or SMS.

#### *Shop Listings:*

- **Detailed Shop Information:** Provide comprehensive details about shops, including name, description, products/services offered, location, and contact information.
- **Search and Filter:** Enable users to search and filter shops based on product categories, location, and price range.
- **Appointment Booking:** Allow users to book appointments with specific shops or services.

#### *Reservation Management:*

- **Food Court and Shop Reservations:** Users can view available reservation slots and make reservations for specific dates, times, and party sizes.
- **Modify or Cancel Reservations:** Allow users to modify or cancel their reservations easily.
- **Confirmation Process:** Notify users about the status of their reservations.

#### *Table Management for Food Court:*

- **Track Table Availability:** Implement a system to track table availability and assign tables to reservations.
- **Table Capacity and Layout:** Allow vendors to set table capacities and configure layouts.

#### *Menu Display for Food Court Vendors:*

- **Showcase Menus:** Vendors can display their food and beverage offerings, including prices and descriptions.

#### *Reviews and Ratings:*

- **User Reviews:** Allow users to leave reviews and ratings for movies, food court vendors, and shops.
- **Rating System:** Implement a rating system for both vendors and individual menu items or products.

#### *Admin Dashboard:*

- **Restaurant and Shop Management:** Provide tools for restaurant owners or shop administrators to manage details, reservations, and inventory.
- **Respond to Reviews:** Allow administrators to view and respond to user reviews.
- **Analytics and Reporting:** Generate detailed reports on reservations, popular items, customer feedback, and more.

#### *Mobile Responsiveness:*

- **Responsive Design:** Ensure the website is mobile-friendly and works seamlessly on various devices.
- **Cross-Device Compatibility:** Allow users to make reservations, order food, and shop from their smartphones, tablets, or desktops.

## Site Requirement

Since we have used bootstrap framework, it might have certain compatibility issues. We used the latest version of the framework and yet it has certain limitation. Below-mentioned is the compatibility chart for bootstrap. We highly recommend this website to be opened on "Google Chrome" due the best compatibility available.[5]

	<b>Chrome</b>	<b>Firefox</b>	<b>Internet Explorer</b>	<b>Opera</b>	<b>Safari</b>
Android	✓ Supported	✓ Supported	✓ Supported	✓ Supported	✓ Supported
iOS	✓ Supported	✓ Supported	✓ Supported	✓ Supported	✓ Supported
Mac OS X	✓ Supported	✓ Supported	✓ Supported	✓ Supported	✓ Supported
Windows	✓ Supported	✓ Supported	✓ Supported	✓ Supported	✓ Supported

## Website structure

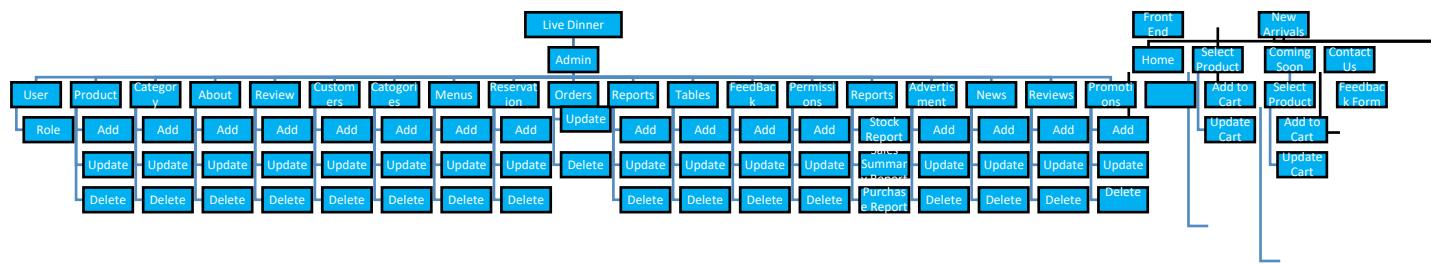
### Bootstrap Grid System

Since we have used bootstrap framework for website. Grid layout[6] making technique have been used in our website. For review, I have mentioned the basic structure of grid system which we have used in our project.

*Table 1: Bootstrap Grid Information*

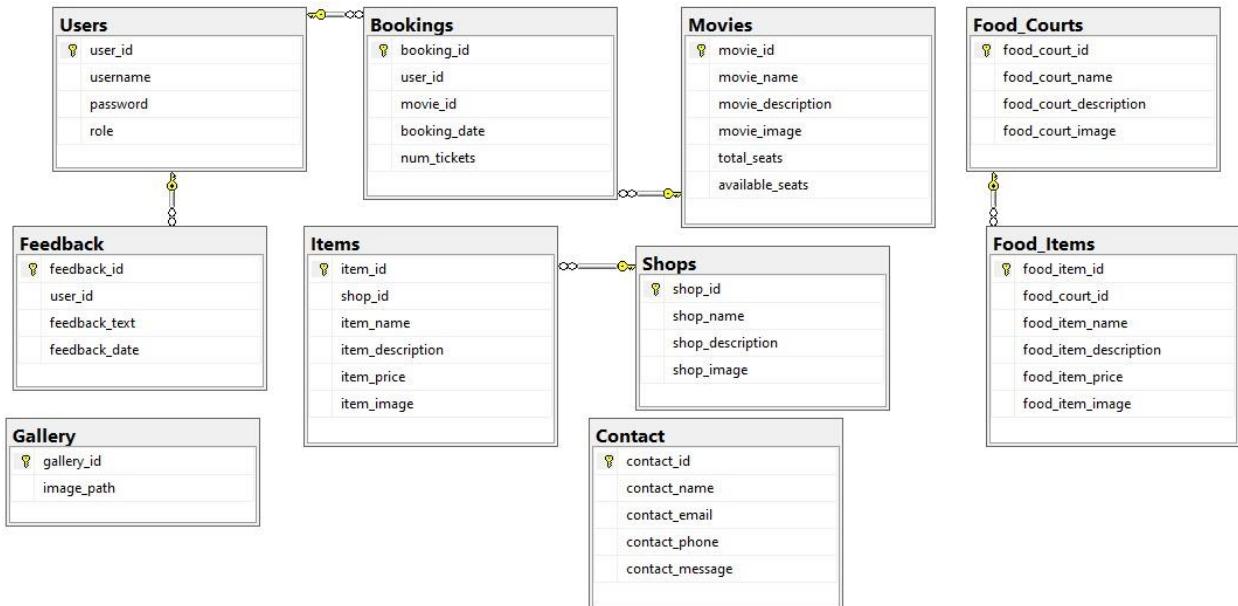
	<b>Extra Small Devices (xs)</b>	<b>Small Devices (sm)</b>	<b>Medium devices (md)</b>	<b>Large devices (lg)</b>
<b>Device Type</b>	Phone (<768)	Tablets ( $\geq 768\text{px}$ )	Desktops ( $\geq 992\text{px}$ )	Desktops ( $\geq 1200\text{px}$ )
<b>Container width</b>	None (auto)	750px	970px	1170px
<b>Class prefix</b>	.col-xs-	.col-sm-	.col-md-	.col-lg-
<b>No. of columns</b>			12	
<b>Columns width</b>	Auto	~62px	~81px	~97px
<b>Gutter width</b>		30px (15px on each side of column)		

# Process Diagram



Diagram

# Database Design



Database Diagram

## Website functionalities explanation:

Functionalities are explained module wise:

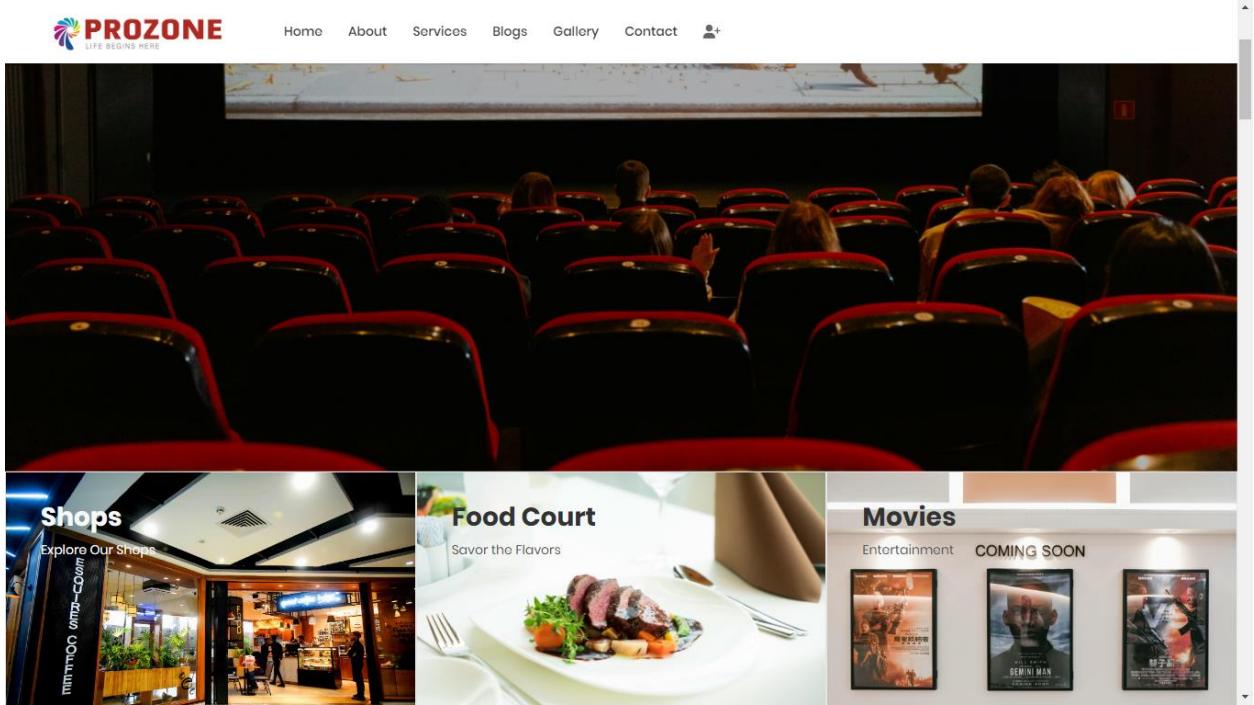
### Admin Module:

- Admin will have to login in the website to edit the features.
- Will have the authority to ADD-EDIT-DELETE the content such as shopping centers (along with the list of few items it possess), counters at food court (can add some of the items).
- Can add the details in the gallery section where the top brands item, or food image is presented
- Can view the feedback received by the client users.
- Will have the authority to ADD-EDIT-DELETE the movies which would be running on the multiplex also number seats available must be added.
- Can view the tickets booked by the clients.

### Client Module:

- The client can view the website but will not any login section.
- They can view the data like list of the shopping centers, food courts, galleries, contact us details
- They can provide the feedback
- They can book the ticket online by providing the card details. (note if all the allocated seats are booked then it must not allow to book the tickets.)
- Can search the name of the brands shops available, also in the food courts menu.
- Can view the complete diagram of the mall
- Can view the contact details.

## Website Figure



Home 1

## Home-2



The header features the Prozone logo with the tagline "LIFE BEGINS HERE". A navigation menu includes links for Home, About, Services, Blogs, Gallery, Contact, and a user icon.

### 50,000 SQ.FT of Underground Parking Space

No shopping mall experience is pleasant when one is met with a parking nightmare. North Walk in this equation comes out as a shopping mall in Karachi as one of the most accommodating parking areas. The shopping mall was conceived with the point to make sure to provide ample space to the visitors for seamless parking so the shopping mood isn't completely destroyed.

Donec gravida lorem elit, quis condimentum ex semper sit amet. Fusce eget ligula magna. Aliquam aliquam imperdiet sodales. Ut fringilla turpis in vehicula vehicula. Pellentesque congue ac orci ut gravida. Aliquam erat volutpat. Donec iaculis lectus a arcu facilisis, eu sodales lectus sagittis. Etiam pellentesque, magna vel dictum rutrum, neque justo eleifend elit, vel tincidunt erat arcu ut sem. Sed rutrum, turpis ut commodo efficitur, quam velit convallis ipsum, et maximus enim ligula ac ligula.

Any questions? Let us know in store at 8th floor, 379 Hudson St, New York, NY 10018 or call us on (+1) 96 716 6879



## Home 2



The header features the Prozone logo with the tagline "LIFE BEGINS HERE". A navigation menu includes links for Home, About, Services, Blogs, Gallery, Contact, and a user icon.



### Shops

Mauris non lacinia magna. Sed nec lobortis dolor. Vestibulum rhoncus dignissim risus, sed consectetur erat. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Nullam maximus mauris sit amet odio convallis, in pharetra magna gravida. Praesent sed nunc fermentum mi molestie tempor. Morbi vitae viverra odio. Pellentesque ac velit egestas, luctus arcu non, laoreet mauris. Sed in ipsum tempor, consequat odio in, porttitor ante. Ut mauris ligula, volutpat in sodales in, porta non odio. Pellentesque tempor urna vitae mi vestibulum, nec venenatis nulla lobortis. Proin at gravida ante. Mauris auctor purus at lacinia maximus euismod. Pellentesque vulputate massa ut nisl hendrerit, eget elementum libero iaculis.



Figure 3

- [Home](#)
- [About](#)
- [Services](#)
- [Blogs](#)
- [Gallery](#)
- [Contact](#)
- 

## The Food-Top Experience

No shopping mall experience is pleasant when one is met with a parking nightmare. North Walk in this equation comes out as a shopping mall in Karachi as one of the most accommodating parking areas. The shopping mall was conceived with the point to make sure to provide ample space to the visitors for seamless parking so the shopping mood isn't completely destroyed.

Donec gravida lorem elit, quis condimentum ex semper sit amet. Fusce eget ligula magna. Aliquam aliquam imperdiet sodales. Ut fringilla turpis in vehicula vehicula. Pellentesque congue ac orci ut gravida. Aliquam erat volutpat. Donec iaculis lectus a arcu facilisis, eu sodales lectus sagittis. Etiam pellentesque, magna vel dictum rutrum, neque justo eleifend elit, vel tincidunt erat arcu ut sem. Sed rutrum, turpis ut commodo efficitur, quam velit convallis ipsum, et maximus enim ligula ac ligula.

Any questions? Let us know in store at 8th floor, 379 Hudson St, New York, NY 10018 or call us on (+1) 98716 6879



Figure 4

- [Home](#)
- [About](#)
- [Services](#)
- [Blogs](#)
- [Gallery](#)
- [Contact](#)
- 

## GALLERY

All    Shops    Food Court



Shop 1



Shop 2



Shop 3



Shop 4



Food Court 1



Food Court 2



Food Court 3



Food Court 4

Figure 5



## Our Brands



Figure 6



**CATEGORIES**

- [Shops](#)
- [Food Court](#)
- [Cinema](#)

**HELP**

- [About us](#)
- [Feed Back](#)
- [Contact](#)

**GET IN TOUCH**

Any questions? Let us know in store at 8th floor, 379 Hudson St, New York, NY 10018 or call us on (+1) 96 716 6879

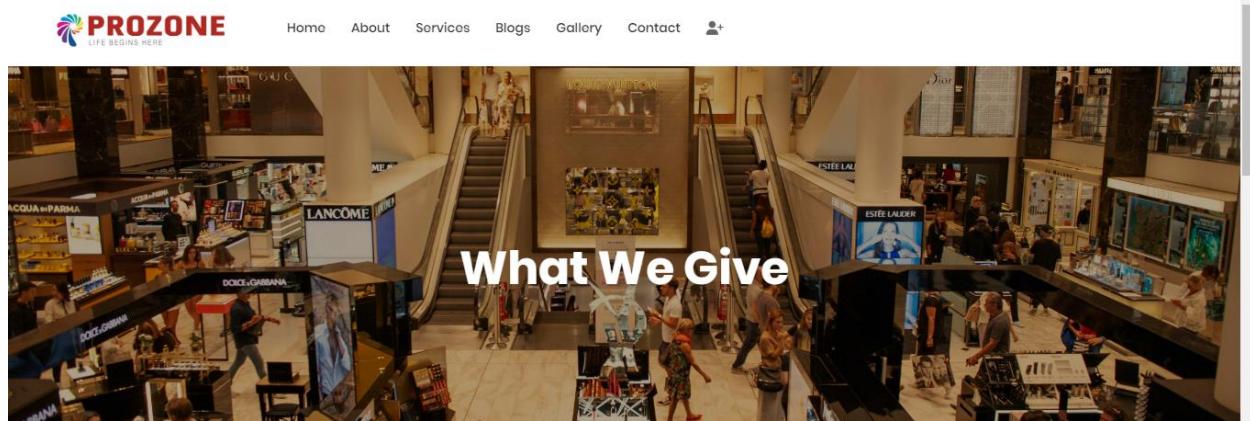
**NEWSLETTER**

[email@example.com](mailto:email@example.com)

[SUBSCRIBE](#)

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Figure 7

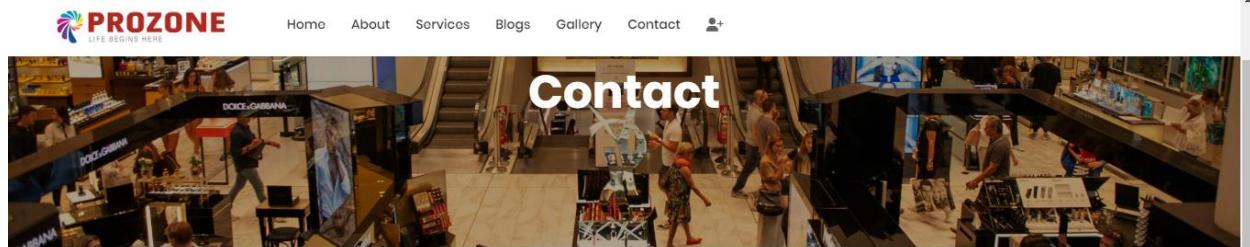


## 50,000 SQ.FT of Underground Parking Space

No shopping mall experience is pleasant when one is met with a parking nightmare. North Walk in this equation comes out as a shopping mall in Karachi as one of the most accommodating parking areas. The shopping mall was conceived with the point to make sure to provide ample space to the visitors for seamless parking so the shopping mood isn't completely destroyed.



Figure 8



### Send Us A Message

Your Name

Your Email Address

Your Number

Address

ABC Mall ABC Area

Lets Talk

Figure 9

**PROZONE**  
LIVE. WORK. HERE.

Home About Services Blogs Gallery Contact

### Send Us A Message

Your Name

Your Email Address

Your Number

How Can We Help?

CREATE

Address  
ABC Mall ABC Area

Lets Talk  
+1 800 1236879

Sale Support  
contact@example.com

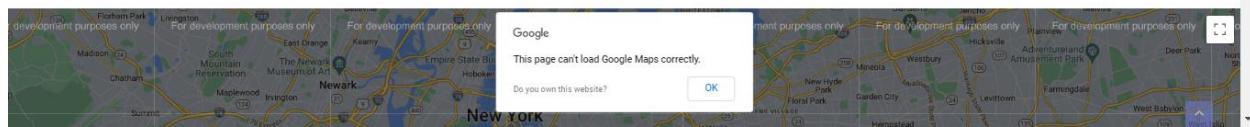


Figure 10

**PROZONE**  
LIVE. WORK. HERE.

Home About Services Blogs Gallery Contact

# feedback

Please ! First you create an account, then you can give feedback

Environment

Rating

Message

FeedbackDate

2024-06-25 19:49:00

CATEGORIES

Shops  
Food Court

HELP

About us  
Feed Back

GET IN TOUCH

Any questions? Let us know in store at 8th floor, 379 Hudson St, New York, NY 10018 or call us on (+1) 98 789 6879

NEWSLETTER

email@example.com

Figure 11

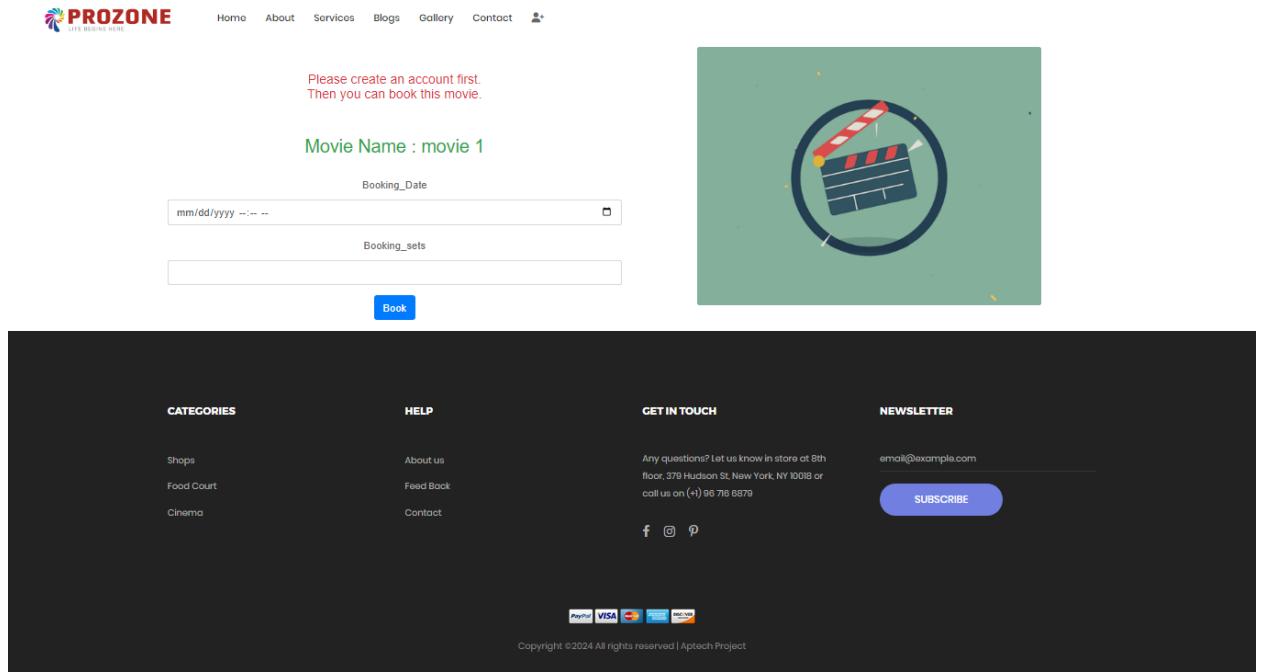


Figure 12

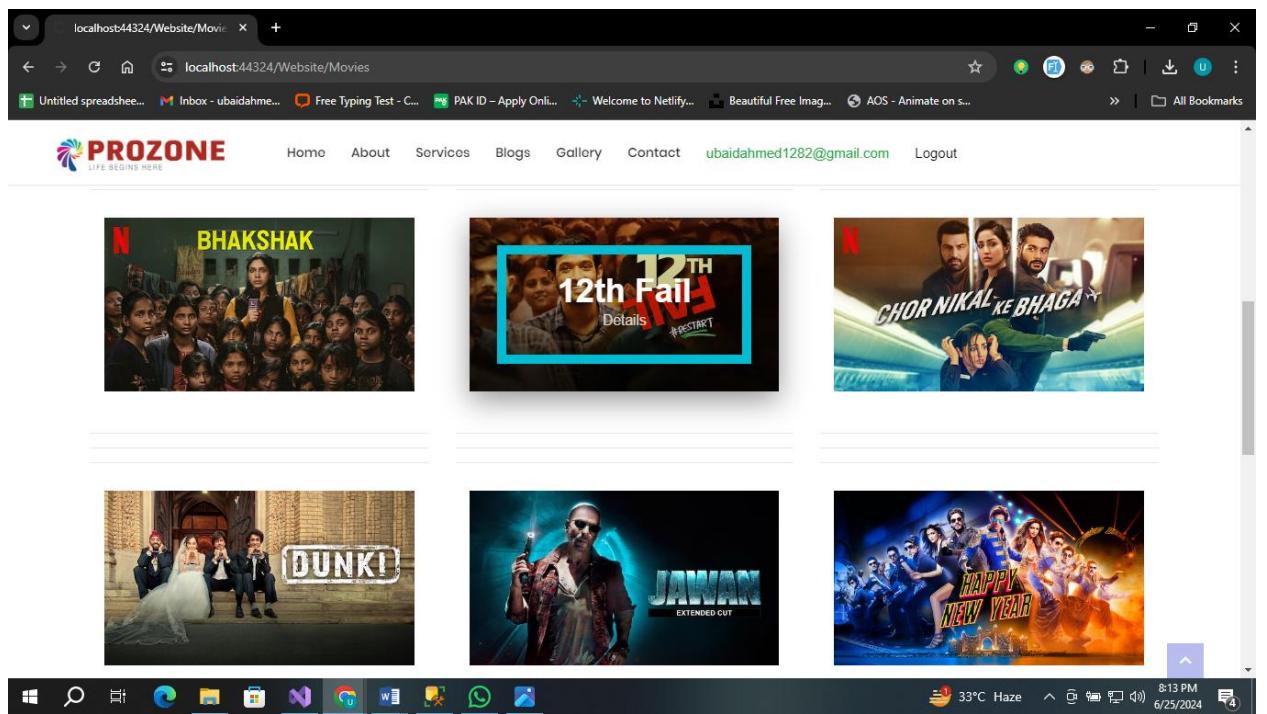


Figure 13

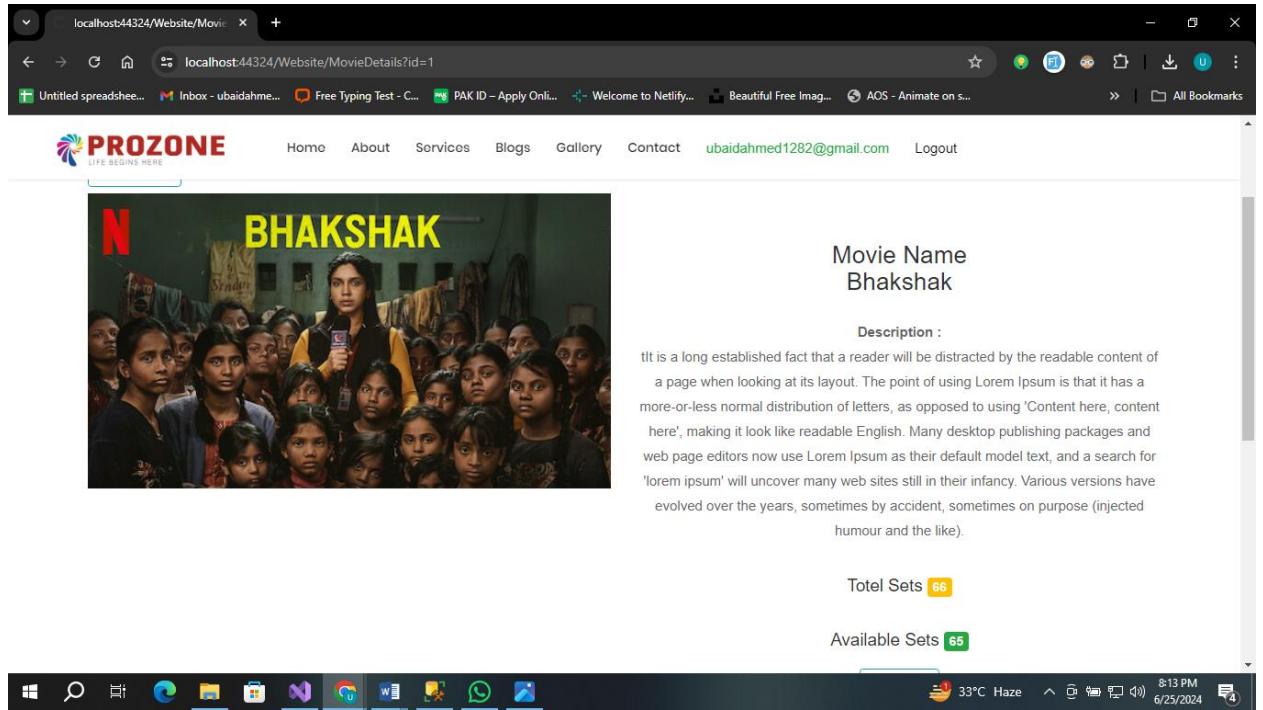


Figure 14

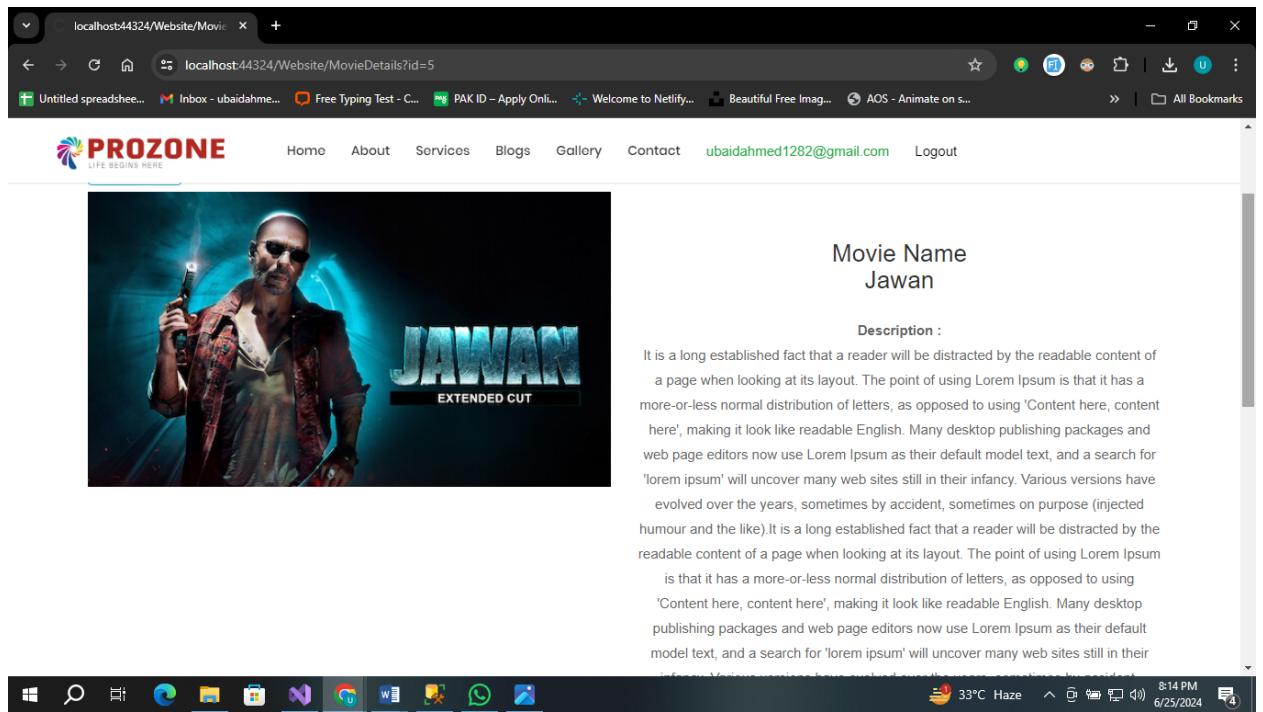


Figure 15

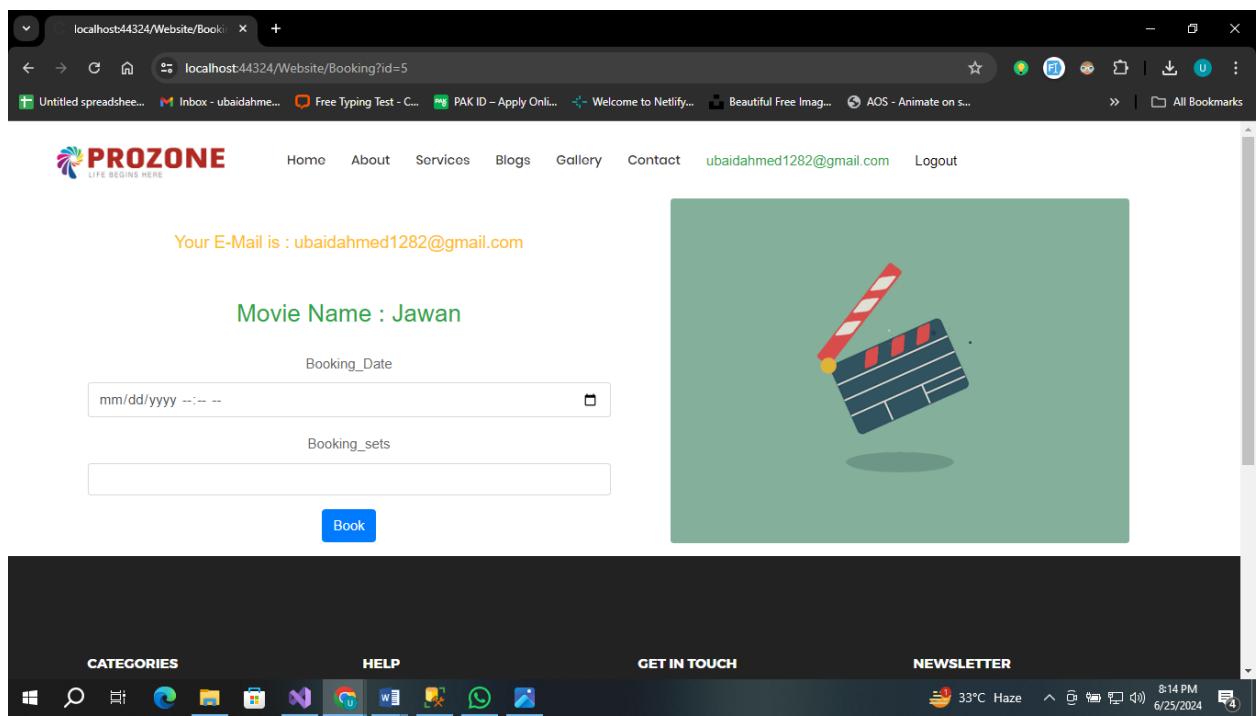
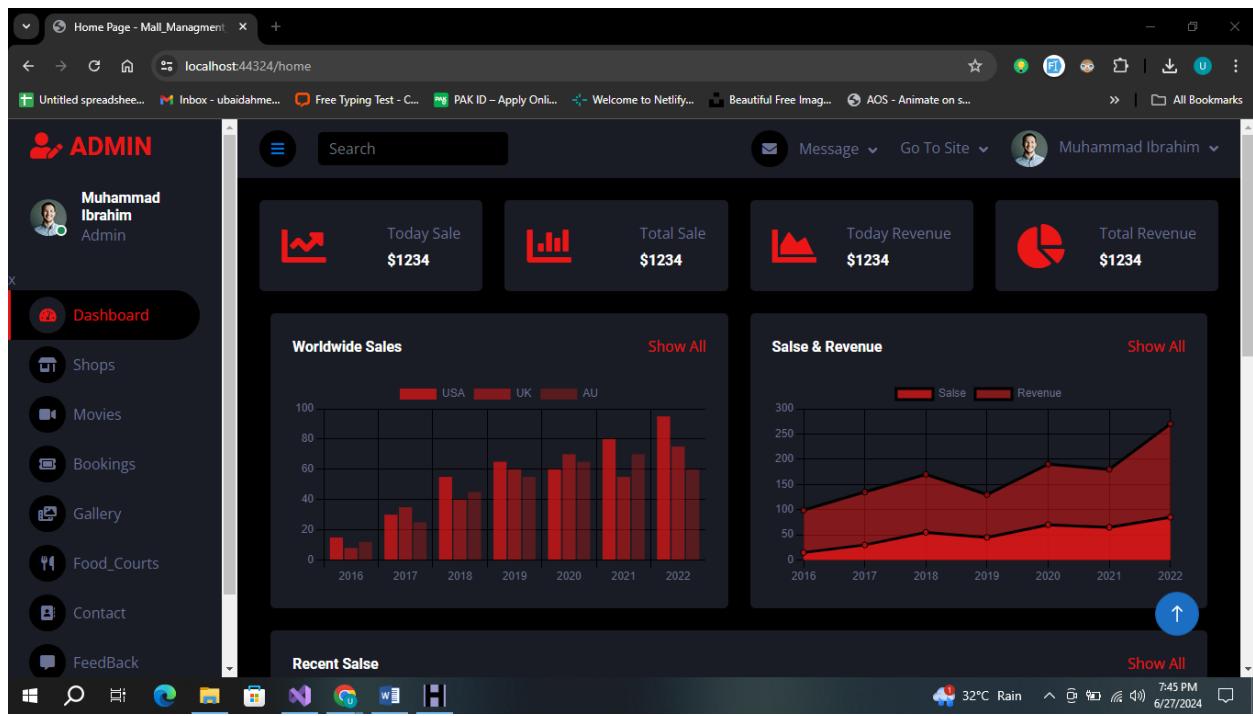
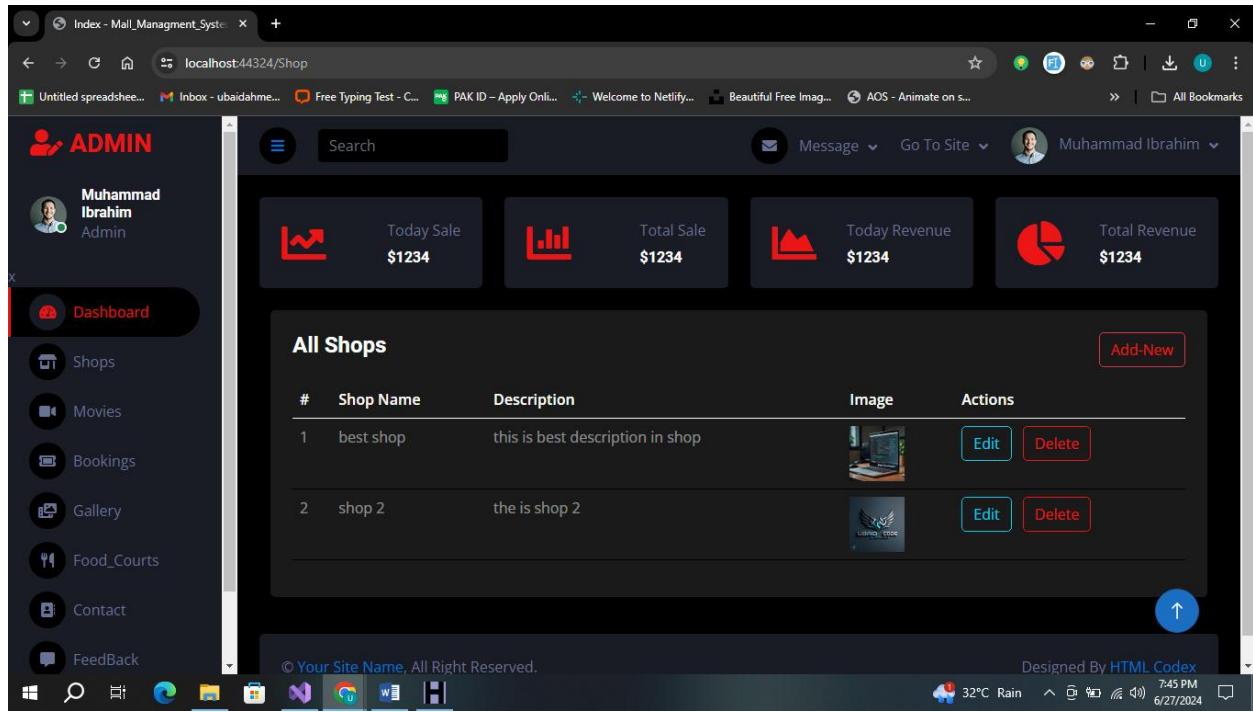


Figure 16

## Admin Site Figures



Admin Figure 17



Admin Figure 18

This screenshot shows a web-based administration interface for a mall management system. The left sidebar is dark-themed with white icons and text, featuring a user profile for 'Muhammad Ibrahim' and a list of navigation items: Dashboard, Shops, Movies, Bookings, Gallery, Food\_Courts, Contact, and FeedBack. The main content area has a light background and displays a table of movie reviews. The table columns are 'Name', 'Description', and two numerical columns (66, 65 and 77, 50). Each review row includes a small thumbnail image, an 'Edit' button, and a red-bordered 'Delete' button. The top right of the interface shows a message center, a 'Go To Site' link, and a user profile for 'Muhammad Ibrahim'. The bottom right corner of the screen shows system status: 32°C Rain, 7:45 PM, and the date 6/27/2024.

Admin Figure 19

This screenshot shows a modal dialog box titled 'FoodCourt' with the sub-titile 'Add Court'. The form contains fields for 'Court Name' and 'Description', both of which are currently empty. Below these fields is a file input field labeled 'Photo' with the placeholder 'Choose File | No file chosen'. At the bottom of the modal are two buttons: a red-bordered 'Create' button and a 'Back to List' button. The background of the modal is dark, matching the overall theme of the application. The rest of the interface is identical to Admin Figure 19, including the sidebar and the main content area displaying movie reviews.

Admin Figure 20

The screenshot shows the Admin dashboard for a Mall Management System. On the left, a sidebar lists navigation options: Dashboard, Shops, Movies, Bookings, Gallery, Food\_Courts, Contact, and FeedBack. The main area displays four summary cards: Today Sale (\$1234), Total Sale (\$1234), Today Revenue (\$1234), and Total Revenue (\$1234). Below these is a section titled "All Feedback" containing a table of feedback entries:

Environment	Rating	Message	FeedbackDate	Action
Good	5	this is best message	1/1/0001 12:00:00 AM	<button>Delete</button>
Good	5	s fsd fsdfhsdj	1/1/0001 12:00:00 AM	<button>Delete</button>
Good	4	d k dshfsd kf sdkfhsd fsdu	1/1/0001 12:00:00 AM	<button>Delete</button>
No deficiency	4	d f d fsdkfsd fdsk	1/1/0001 12:00:00 AM	<button>Delete</button>
No deficiency	4	dfd shdfs jfh	1/1/0001 12:00:00 AM	<button>Delete</button>
No deficiency	4	dfd shdfs jfh	1/1/0001 12:00:00 AM	<button>Delete</button>

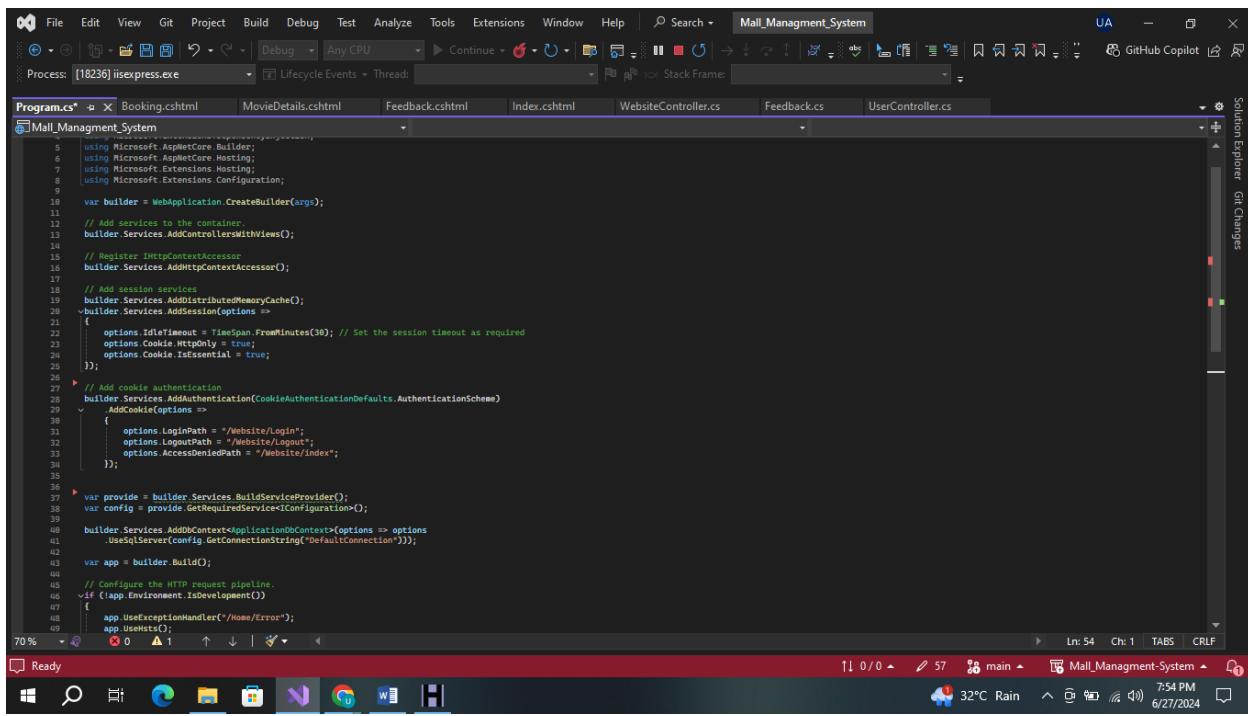
Admin Figure 21

The screenshot shows the Admin dashboard for a Mall Management System. On the left, a sidebar lists navigation options: Dashboard, Shops, Movies, Bookings, Gallery, Food\_Courts, Contact, and FeedBack. The main area displays four summary cards: Today Sale (\$1234), Total Sale (\$1234), Today Revenue (\$1234), and Total Revenue (\$1234). Below these is a section titled "All Users" containing a table of user entries:

FirstName	LasttName	Email	Password	Rolls	Action
Ubaid	Ahmed	ubaidahmed1282@gmail.com	ubaid2050	Admin	<button>Details</button> <button>Delete</button>
Ali	Ahemd	mk6093931@gmail.com	ubaid1282	User	<button>Details</button> <button>Delete</button>

Admin Figure 22

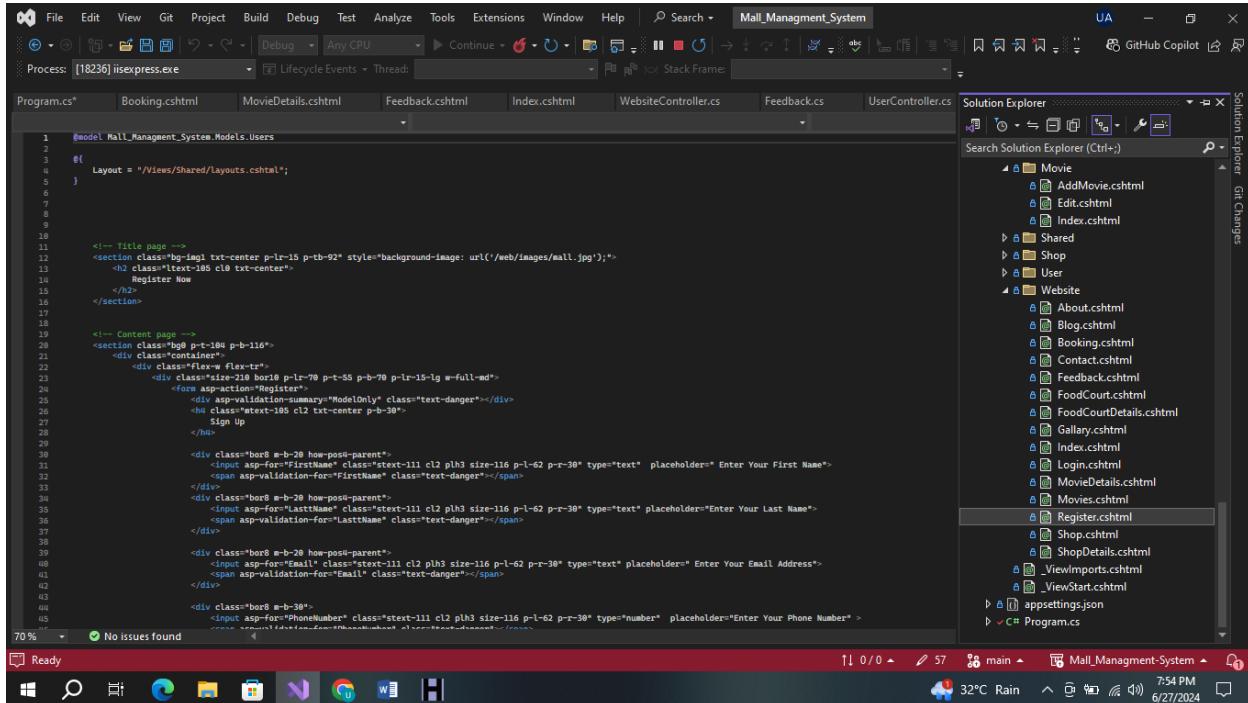
## Code Figures



```

5  using Microsoft.AspNetCore.Builder;
6  using Microsoft.AspNetCore.Hosting;
7  using Microsoft.Extensions.Hosting;
8  using Microsoft.Extensions.Configuration;
9
10 var builder = WebApplication.CreateBuilder(args);
11
12 // Add Services to the container
13 builder.Services.AddControllersWithViews();
14
15 // Register IHttpContextAccessor
16 builder.Services.AddHttpContextAccessor();
17
18 // Add session services
19 builder.Services.AddDistributedMemoryCache();
20 builder.Services.AddSessionOptions(
21     options =>
22         options.IdleTimeout = TimeSpan.FromMinutes(30); // Set the session timeout as required
23         options.Cookie.HttpOnly = true;
24         options.Cookie.IsEssential = true;
25 );
26
27 // Add cookie authentication
28 builder.Services.AddAuthentication(CookieAuthenticationDefaults.AuthenticationScheme)
29     .AddCookie(options =>
30     {
31         options.LoginPath = "/Website/Login";
32         options.LogoutPath = "/Website/Logout";
33         options.AccessDeniedPath = "/Website/Index";
34     });
35
36 > var provider = builder.Services.BuildServiceProvider();
37 var config = provider.GetRequiredService<IConfiguration>();
38
39 builder.Services.AddDbContext<ApplicationContext>(options => options
40     .UseSqlServer(config.GetConnectionString("DefaultConnection")));
41
42 var app = builder.Build();
43
44 // Configure the HTTP request pipeline.
45 if (app.Environment.IsDevelopment())
46 {
47     app.UseExceptionHandler("/Home/Error");
48     app.UseHsts();
49 }
50
51 
```

Figure 23



```

1 <model Mail_Management_System.Models.Users
2 <!
3 <{
4     Layout = "/Views/Shared/Layouts.cshtml";
5 }
6
7
8
9
10 <!-- Title page -->
11 <section class="bg-img1 txt-center p-lr-15 p-tb-92" style="background-image: url('/web/images/mall.jpg');">
12     <h2 class="text-105 c10 txt-center">
13         Register Now
14     </h2>
15 </section>
16
17
18 <!-- Content page -->
19 <section class="bg0 p-t-104 p-b-116">
20     <div class="container">
21         <div class="row flex-row">
22             <div class="size-218 box10 p-lr-70 p-t-55 p-b-70 p-lr-15-lg w-full-md">
23                 <form asp-action="Register">
24                     <div asp-validation-summary="ModelOnly" class="text-danger"></div>
25                     <h4 class="text-105 c12 txt-center p-b-30">
26                         Sign Up
27                     </h4>
28
29                     <div class="box8 m-b-20 w-pos-parent">
30                         <input asp-for="FirstName" class="stext-111 c12 plh3 size-116 p-l-62 p-r-30" type="text" placeholder=" Enter Your First Name">
31                         <span asp-validation-for="FirstName" class="text-danger"></span>
32                     </div>
33                     <div class="box8 m-b-20 w-pos-parent">
34                         <input asp-for="LastName" class="stext-111 c12 plh3 size-116 p-l-62 p-r-30" type="text" placeholder="Enter Your Last Name">
35                         <span asp-validation-for="LastName" class="text-danger"></span>
36                     </div>
37
38                     <div class="box8 m-b-20 w-pos-parent">
39                         <input asp-for="Email" class="stext-111 c12 plh3 size-116 p-l-62 p-r-30" type="text" placeholder=" Enter Your Email Address">
40                         <span asp-validation-for="Email" class="text-danger"></span>
41                     </div>
42
43                     <div class="box8 m-b-30">
44                         <input asp-for="PhoneNumber" class="stext-111 c12 plh3 size-116 p-l-62 p-r-30" type="number" placeholder="Enter Your Phone Number" >
45                         <span asp-validation-for="PhoneNumber" class="text-danger"></span>
46                     </div>
47                 </form>
48             </div>
49         </div>
50     </div>
51 
```

Figure 24

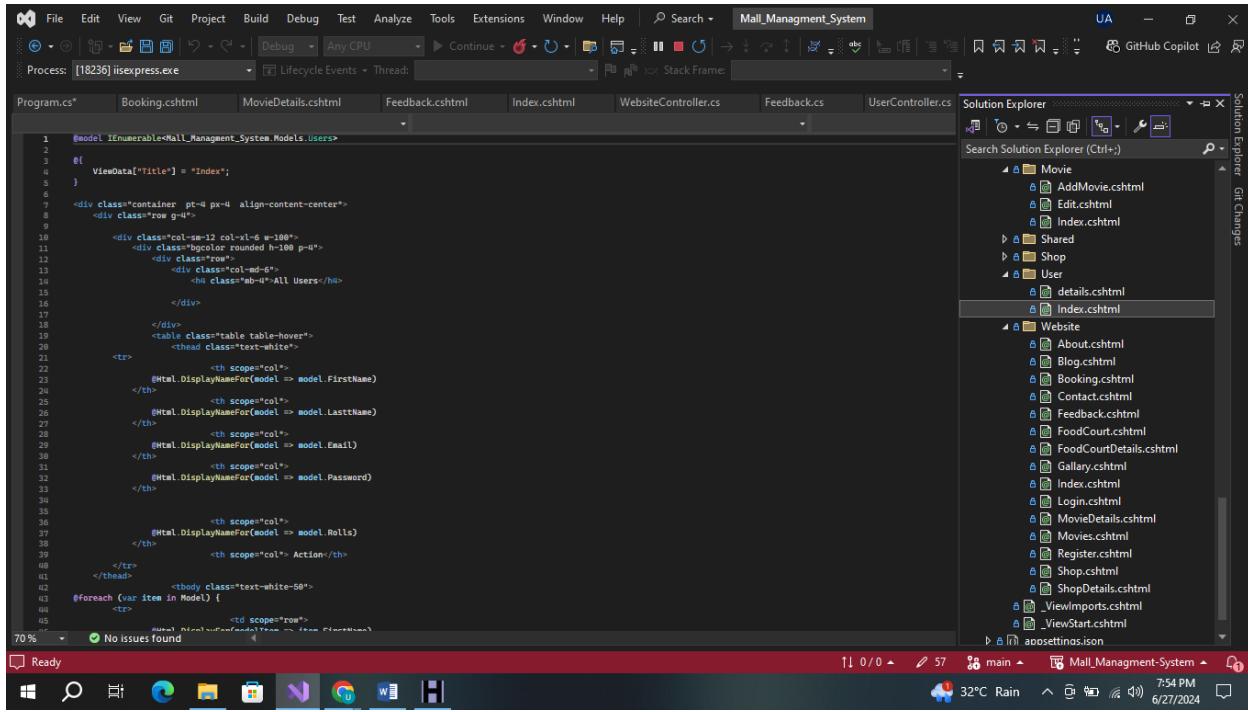


Figure 25

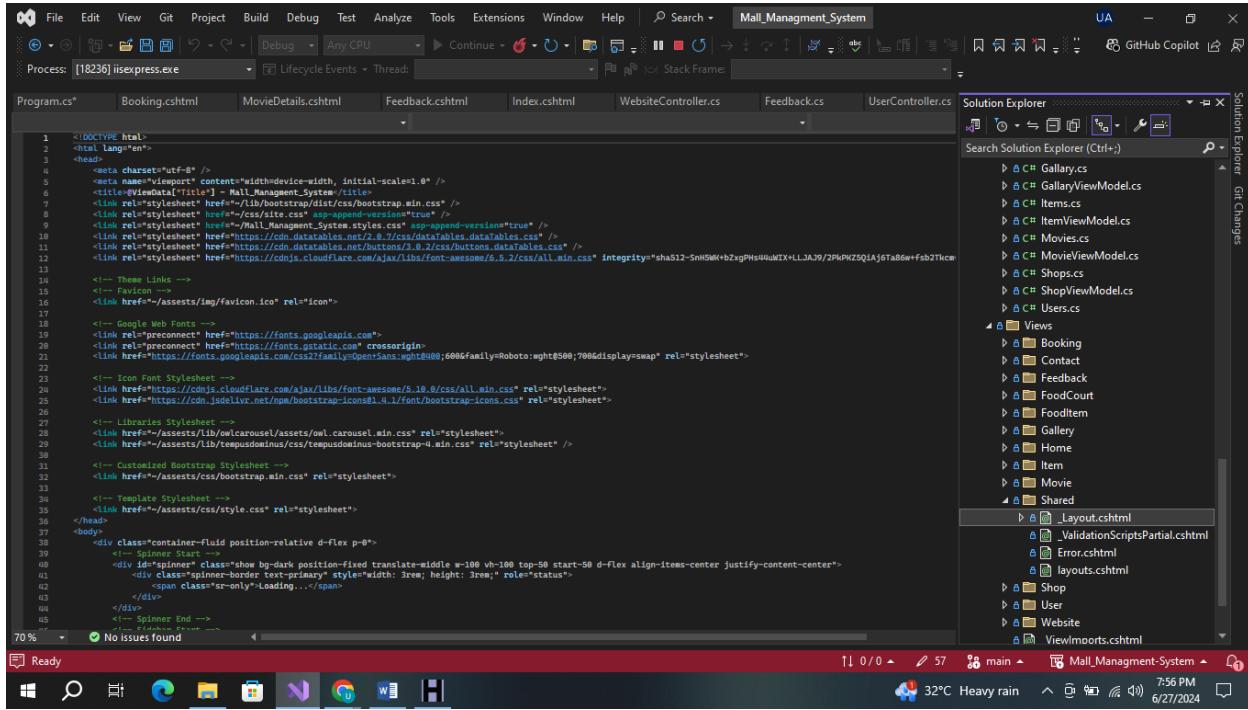


Figure 26

The screenshot shows the Microsoft Visual Studio IDE interface. The title bar reads "Mail\_Management\_System". The Solution Explorer on the right lists files like Gallery.cs, MovieDetails.cshtml, Feedback.cshtml, etc. The code editor on the left displays the content of Program.cshtml, which includes various CSS links for Bootstrap, DataTables, and custom styles. The status bar at the bottom shows "7:56 PM" and "32°C Heavy rain".

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="utf-8" />
5     <meta name="viewport" content="width=device-width, initial-scale=1.0" />
6     <title>@ViewData["Title"] - Mail_Management_System</title>
7     <link rel="stylesheet" href="/lib/bootstrap/dist/css/bootstrap.min.css" />
8     <link rel="stylesheet" href="https://cdn.datatables.net/2.0.7/css/dataTables.dataTables.css" />
9     <link rel="stylesheet" href="https://cdn.datatables.net/buttons/3.0.2/css/buttons.dataTables.css" />
10    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.2.0/css/all.min.css" integrity="sha512-SmNq84fQGXk+O1pcjGKnK4PhqZ+HnDm4JXeVg46ZtPZL/HuZJyq0MqUkCvJZfzqfCZB0TfHxWJZGZJLHdHJZw==" />
11    <link href="~/assets/img/favicon.ico" rel="icon">
12
13    <!-- Theme Links -->
14    <!-- Favicon -->
15    <link href="~/assets/img/favicon.ico" rel="icon">
16
17    <!-- Google Web Fonts -->
18    <link rel="preconnect" href="https://fonts.googleapis.com">
19    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin="anonymous" />
20    <link href="https://fonts.googleapis.com/css2?family=Open+Sans:wght@400;600&family=Roboto:wght@500;700&display=swap" rel="stylesheet">
21
22    <!-- Icon Font Stylesheet -->
23    <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.10.0/css/all.min.css" rel="stylesheet">
24    <link href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.4.1/font/bootstrap-icons.css" rel="stylesheet">
25
26    <!-- Libraries Stylesheet -->
27    <link href="~/assets/lib/owlcarousel/assets/owl.carousel.min.css" rel="stylesheet">
28    <link href="~/assets/lib/tempusdominus/css/tempusdominus-bootstrap-4.min.css" rel="stylesheet" />
29
30    <!-- Customized Bootstrap Stylesheet -->
31    <link href="~/assets/css/bootstrap.min.css" rel="stylesheet">
32
33    <!-- Template Stylesheet -->
34    <link href="~/assets/css/style.css" rel="stylesheet">
35
36    </head>
37
38    <body>
39        <div class="container-fluid position-relative d-flex p-0">
40            <!-- Spinner Start -->
41            <div id="spinner" class="show bg-dark position-fixed translate-middle w-100 vh-100 top-50 start-50 d-flex align-items-center justify-content-center">
42                <div class="spinner-border text-primary" style="width: 3rem; height: 3rem; border: 2px solid transparent; border-radius: 50%; border-top-color: #007bff; border-left-color: #007bff; border-bottom-color: transparent; border-right-color: transparent; animation: spin 1.5s linear infinite; margin: auto; font-size: 1.5em; font-weight: bold; color: #007bff; opacity: 0.5;"></div>
43                <span class="text-white">Loading...</span>
44            </div>
45            <!-- Spinner End -->
46        </div>
47
48    </body>
49
50</html>
```

*Figure 27*

The screenshot shows the Microsoft Visual Studio IDE interface. The title bar reads "Mall\_Management\_System". The main area displays the content of the file "Program.cshtml". The code is primarily ASP.NET Razor syntax, featuring navigation menus and header components. The code includes sections for desktop and mobile headers, as well as a login icon. The status bar at the bottom indicates "Ready", "Ln: 26 Ch: 81 Col: 84 MIXED CRLF", and the bottom right corner shows the date and time as "6/27/2024 7:56 PM".

```
<li class="text-success fw-bolder">+HttpContextAccessor.HttpContext.User.Identity.Name</li>
<li>
    <form asp-action="Logout" asp-controller="Website" method="post">
        <button type="submit">Logout</button>
    </form>
</li>
}
else
{
    <li>
        <i class="fa-solid fa-user-plus"></i>
        <ul class="sub-menu">
            <li>
                <a asp-action="Register" asp-controller="Website">Register</a>
            </li>
            <li>
                <a asp-action="Login" asp-controller="Website">Login</a>
            </li>
        </ul>
    </li>
}
</ul>
</div>
</nav>
</div>
</div>
<!-- Header Mobile -->
<div class="wrap-header-mobile">
    <!-- Logo mobile -->
    <div class="logo-mobile">
        #> <h1 class="item-202 c12 respon2">Shopping Mall</h1>
        
    </div>
    <!-- Icon header -->
    <div class="wrap-icon-header flex-w flex-r-e h-full">
        <div class="flex-cs h-full p-r-20">
            <div class="icon-header-item c12 hov-c1 trans-04 p-lr-12">
                <a href="#"> Login</a>
            </div>
        </div>
    </div>
</div>
```

*Figure 28*

The screenshot shows the Visual Studio IDE interface. The title bar reads "Mail\_Management\_System". The main window displays the code for "ApplicationDbContext.cs" in the "Models" folder. The code defines a DbContext class named "ApplicationDbContext" that inherits from "DbContext". It includes properties for various DbSet<T> representing entities like Contact, FoodCourt, Gallary, Movies, Items, FoodItems, Booking, and Feedback. The Solution Explorer on the right shows the project structure with files like "ApplicationDbContext.cs", "Booking.cs", "Contact.cs", etc., under the "Models" and "Views" folders.

```
1 using Microsoft.EntityFrameworkCore;
2 
3 namespace Mail_Management_System.Models
4 {
5     public class ApplicationDbContext : DbContext
6     {
7         public ApplicationDbContext(DbContextOptions options) : base(options)
8         {
9             ...
10        }
11    }
12 
13    public DbSet<Contact> contact { get; set; }
14    public DbSet<Foodcourt> FoodCourt { get; set; }
15    public DbSet<Gallary> Gallary { get; set; }
16    public DbSet<Movies> Movies { get; set; }
17    public DbSet<Shop> Shops { get; set; }
18    public DbSet<Items> Items { get; set; }
19    public DbSet<FoodItems> FoodItems { get; set; }
20    public DbSet<Users> Users { get; set; }
21    ...
22    public DbSet<Booking> Booking { get; set; }
23    public DbSet<Feedback> Feedback { get; set; }
24 }
```

Figure 29

This screenshot is similar to Figure 29 but focuses on the "Booking.cs" file in the "Models" folder. The code defines a class "Booking" with properties: Id (primary key), Movie\_Name, User\_Email, Booking\_Date (with a column annotation and required attribute), Booking\_sets (with a column annotation and required attribute), and Number\_Tickets. The Solution Explorer shows the same project structure as Figure 29.

```
1 using System.ComponentModel.DataAnnotations.Schema;
2 using System.ComponentModel.DataAnnotations;
3 
4 namespace Mail_Management_System.Models
5 {
6     public class Booking
7     {
8         [Key]
9         public int Id { get; set; }
10 
11         public string Movie_Name { get; set; }
12 
13         public string User_Email { get; set; }
14 
15         [Column("Booking_Date")]
16         [Required]
17         public DateTime Booking_Date { get; set; }
18 
19         [Column("Booking_sets")]
20         [Required]
21         public string Booking_sets { get; set; }
22 
23         [Column("Number_Tickets")]
24         public string Number_Tickets { get; set; }
25     }
26 }
```

Figure 30

A screenshot of Microsoft Visual Studio showing the code editor for the UserController.cs file. The code implements a controller for managing users. It includes methods for Index, details, and Delete actions. The Index action returns a list of users. The details action retrieves a user by ID. The Delete action removes a user from the database and saves changes.

```
12
13
14     public UserController(DbContext users, IWebHostEnvironment hc)
15     {
16         this.User_Context = users;
17         env = hc;
18     }
19
20
21     [HttpGet]
22     public IActionResult Index()
23     {
24         return View(User_Context.Users.ToList());
25     }
26
27     [HttpGet]
28     public IActionResult Details(int id)
29     {
30         var data = User_Context.Users.FirstOrDefault(x => x.UserId == id);
31         return View(data);
32     }
33
34     [HttpPost]
35     public IActionResult Delete(int id)
36     {
37         var user = User_Context.Users.Find(id);
38         if (user == null)
39         {
40             return RedirectToAction("Index");
41         }
42
43         User_Context.Users.Remove(user);
44         User_Context.SaveChanges();
45         return RedirectToAction("Index");
46     }
47
48 }
49
```

Figure 31

A screenshot of Microsoft Visual Studio showing the code editor for the WebsiteController.cs file. The code implements a controller for website management. It includes methods for Login and Register actions. The Login action handles user authentication by checking if the provided email and password match a user in the database. If successful, it updates the user's login status and creates claims for the user. The Register action adds a new user to the database.

```
253
254
255     }
256
257
258
259
260     [HttpGet]
261     public IActionResult Login()
262     {
263         return View();
264     }
265
266
267     [HttpPost]
268     [ValidateAntiForgeryToken]
269     public async Task<IActionResult> Login(Users user)
270     {
271         var dbUser = user_context.Users.FirstOrDefault(u => u.Email == user.Email && u.Password == user.Password);
272
273         if (dbUser != null)
274         {
275             // Update UserLogin field to "1"
276             dbUser.UserLogin = "1";
277             user_context.SaveChanges();
278
279             // Set session variables
280             HttpContext.Session.SetString("UserEmail", dbUser.Email);
281             HttpContext.Session.SetString("UserRole", dbUser.Rolls);
282
283             // Create claims
284             var claims = new List<Claim>;
285             {
286                 new Claim(ClaimTypes.Name, dbUser.Email),
287                 new Claim(ClaimTypes.Role, dbUser.Rolls),
288             };
289
290             var claimsIdentity = new ClaimsIdentity(claims, CookieAuthenticationDefaults.AuthenticationScheme);
291
292             var authProperties = new AuthenticationProperties
293             {
294                 IsPersistent = true
295             };
296
297             await HttpContext.SignInCookieAsync(claimsIdentity, authProperties);
298         }
299     }
300
301 }
```

Figure 32

## Conclusion:

The development of an advanced Mall Management System that integrates online movie booking, detailed food court information, and comprehensive shop listings marks a significant leap in enhancing the shopping and entertainment experience for customers. This system, designed to streamline operations and elevate customer convenience, offers numerous benefits that contribute to its overall effectiveness and appeal. The online movie booking feature stands out as a crucial component, allowing users to browse movie schedules, check seat availability, and book tickets from the comfort of their homes or on-the-go via mobile devices. This not only saves time but also reduces the hassle associated with traditional in-person bookings. With real-time updates, customers can make informed decisions about their movie plans, ensuring they never miss out on the latest releases. Secure payment gateways make transactions safe and efficient, fostering trust among users. The convenience of selecting preferred seats, viewing trailers, and reading reviews further enhances the movie-going experience, attracting a larger audience and benefiting the mall's cinema operators through increased foot traffic and revenue. The inclusion of detailed food court information is another vital aspect, providing a comprehensive overview of all available dining options within the mall, complete with menus, pricing, and customer reviews. This transparency helps visitors make informed dining choices that cater to their tastes and dietary preferences. Real-time updates on promotions, special offers, and new menu items encourage customers to explore various food options, enhancing the dining experience and making the mall a more attractive destination for food enthusiasts. Showcasing the diversity and quality of food court offerings drives increased patronage, ultimately benefiting both the mall and its tenants. The comprehensive shop listings provide a detailed directory of all retail stores within the mall, including store locations, operating hours, product offerings, and contact details. This ensures that customers can easily find and navigate to their desired shops, improving their shopping experience. By categorizing stores based on their offerings—such as fashion, electronics, home goods, and more—the system allows users to quickly locate the types of stores they are interested in. Featuring special promotions, sales events, and new arrivals within these listings attracts more customers to the mall, benefiting retailers through increased visibility and foot traffic, which can translate to higher sales and customer engagement. The Mall Management System significantly enhances customer engagement and satisfaction by providing a user-friendly interface that integrates movie booking, dining information, and shopping directories. The ease of accessing all necessary information in one place simplifies planning and decision-making for customers, leading to higher levels of satisfaction and repeat visits. The system's ability to gather and analyze data on customer preferences and behaviors enables mall management to tailor their services and promotions more effectively. Personalized recommendations, targeted marketing campaigns, and loyalty programs can be developed based on this data, fostering a stronger connection between the mall and its patrons. From an operational standpoint, the system contributes to increased efficiency and growth. By automating various processes such as ticket booking, information dissemination, and customer feedback collection, the system reduces the workload on staff and minimizes the potential for human error, allowing mall management to focus on more strategic initiatives aimed at improving the overall visitor experience. The data generated provides valuable insights into customer preferences, peak visiting times, and popular services, enabling mall operators to make data-driven decisions. These insights can guide future developments, such as the introduction of new stores, renovation of existing facilities, or the launch of targeted marketing campaigns. Overall, the

Mall Management System with online movie booking, detailed food court display, and comprehensive shop listings is a robust solution that enhances customer experience, boosts operational efficiency, and drives growth. By integrating these features into a single platform, the system meets the diverse needs of modern shoppers and positions the mall as a leading destination for entertainment, dining, and shopping.