

“EASEINFY”

Dissertation submitted in partial fulfillment of the requirement for the degree of

BACHELOR OF TECHNOLOGY

IN

Computer Science and Engineering

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To



Department of Computer Science & Engineering and Information Technology

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WAKNAGHAT, SOLAN

CERTIFICATE

I hereby declare that the project presented in this report entitled as “**EaseInfy**” submitted in the department of Computer Science & Engineering and Information Technology of Jaypee University of Information Technology (JUIT), Waknaghat is an authentic record of our work carried out under the supervision of Mr. Joshua Thomas, Training & Assessment, ETA, Infosys Mysore. This work has not been submitted elsewhere for any degree or diploma.

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This is to certify that the above statement made by the candidate is true to the best of my knowledge.

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Date: May, 2019

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Abstract

Realizing the difficulties and needs of the campus, our team tried to make a project named EaseInfy where the key idea was to make our daily lives easier. We analyzed the problem of long ques for ordering the food and booking movie tickets on weekends. There came the idea of digitalizing the entire process by making a platform where we can get all the details of food courts and make the payment using OTP.

The technologies used are ASP.net, HTML, CSS, SQL queries, C# and MVC. The provided platform is Visual Studio for performing and testing and Microsoft SQL Server Management Studio 2017 for the database.

CHAPTER 1: Introduction

1.1 Overview

EaseInfy is a web platform that is used to show all the details of availability food courts, food vendors and the menu available, the other features include the updation of menu by vendors, addition/deletion of food courts or food vendors. Also the second part comprises of the streaming movies for the weekend, OTP generation for the verification by user and view and selection of the seats available according to the previous booking.

Also the required database is made by the team itself.

1.2 Problem Statement

There were numerous problems faced by the people like waiting in long queues for the payment and selection of food, Vendors did not have a proper platform to update menu. Therefore, the entire idea of developing a Web Application was to get one platform to perform the above mentioned tasks.

The aim was to:

For Food Courts:

1. View all the food courts and its availability.
2. View of the vendors and its menu.
3. Generation of OTP for ordering the food items.
4. For vendors, alteration in menu.

For streaming movies in Multiplex:

1. Prior information about the movies streaming next weekend.
2. Checking the availability of seats for a particular time of the show.
3. Generation of OTP for the verification of user.
4. Booking of tickets.

1.3Objective

- To create a website that has a user friendly Interface.
- To create a website which enables the user to view the list of food courts, food items and vendors to update the food items list.
- To create a website which enables the user to view the movies streaming for the weekend and book the tickets.

1.4 Methodology

The following methodologies were used for the implementation of our project.

- Creation of Database using SQL server.
- Creation of Web Application using MODEL VIEW CONTROLLER structure.
- Creation of the DATA ACCESS LAYER to connect the MVC project to database.
- Creation of ENTITY DATA MODEL DESIGNER.
- Using Model classes for the basic structure of Views.
- Use of Controllers and Views to perform the required functionality.
- Use of HTML, CSS, BOOTSTRAP and JAVA SCRIPT to create an interface that is user friendly.
- Performed Unit Testing, Integration Testing using white box approach.

CHAPTER 2: Literature Reading

2.1 Asp.Net.MVC

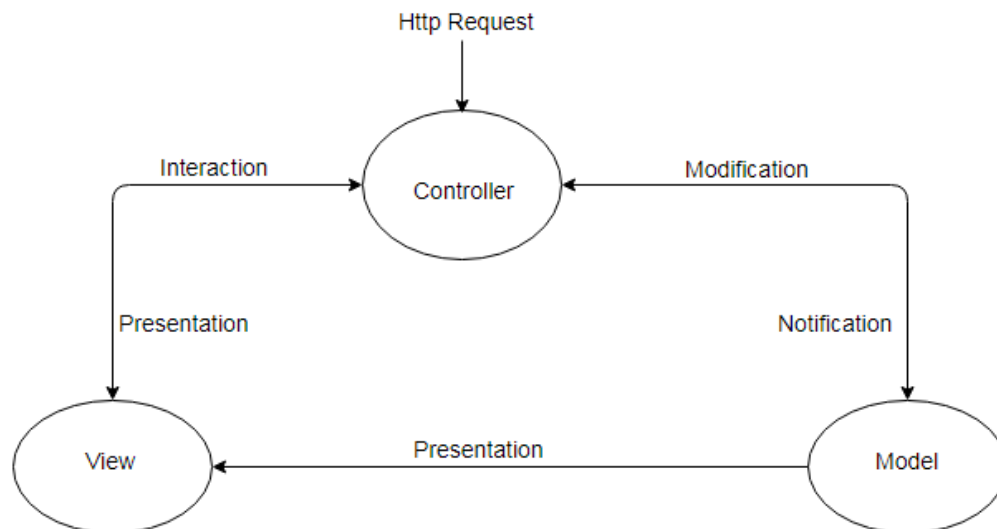
.NET Core is a new Microsoft platform, which is modular, cross-platform, open source and has a better support for cloud

MVC comprises of Models, Controllers and Views. Asp.Net.MVC is a source for creating a web application.

MVC provides loose coupling between different aspects.

Description of the Components of MVC:

1. **Model:** It is used to pass data to Views so that it can be executed further by the concerned. It handles the data related to business.
2. **Controllers:** The functionalities in controller lead to views. It responds to user input and informs the other two parts to make appropriate changes (to display to end user-View part, manage data-Model part)
3. **Views:** The part of the software that handles what is to be displayed to user (output) and takes data from the Model part.



MVC Diagram

Advantages of MVC

Most of the software applications these days (except a few like embedded systems, time-sensitive apps) contain different parts/components.

It is always better to separate these components so that they can be managed easily.

It reduces the complexity as the applications are divided in the model, view and controllers.

It also gives the user full control over the application.

Features of the ASP.NET MVC FRAMEWORK

ASP.NET MVC views (user interface pages) are created using **razor-syntax**, that helps to create dynamic server pages by embedding C# code in html files.

These files are commonly identified with .cshtml extension.

The run time responsible to evaluate these .cshtml pages is known as Razor view engine.

2.2 HTML

HTML is a markup language that defines the structure of web pages and determines how content is displayed online.

- Hypertext is the text displayed on a computer which refers to other text or image that the user can access

- Markup language is a set of tags which helps the web browser in presenting text in a document
- HTML is case-insensitive.

Working

HTML elements are made up of 2 things:

- 1) Tags - HTML instructions
- 2) Content - On which the HTML instructions should be applied



Limitations faced while working with HTML

It provides a simple and basic layout. Therefore, we use Cascading Stylesheet to add features to the layout of web pages.

2.3 Cascading Style Sheet

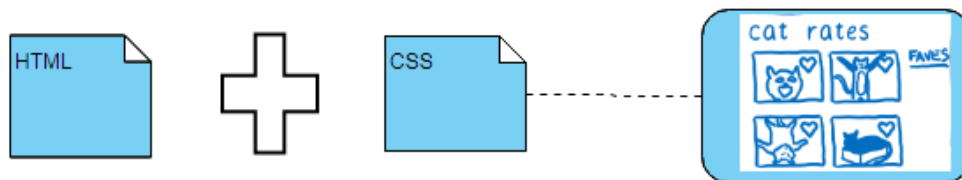
CSS (or Cascading Style Sheets) is a language/technology that is used for **defining the presentation of an HTML page**. It was introduced primarily to separate the page

content from the presentation. This provides greater flexibility and control over the styling. It helps in separating the **style** information and the **HTML** content.

Working

There are three ways of applying CSS to a web page

1. External CSS - a separate file is created that contains CSS instructions with a file extension of .css. And in the HTML page, this CSS file can be imported to provide styling to the layout.
2. Internal CSS - CSS instructions are placed at the top of the HTML web page document in the head tag of the web page.
3. Inline CSS - These kind of styles can be placed at any place where required in the tag you wish to decorate.



2.4 Java Script

The main usage of JavaScript is to make the website dynamic such as selecting from drop down or side navigation buttons. Html and CSS are used to make web site pages in which

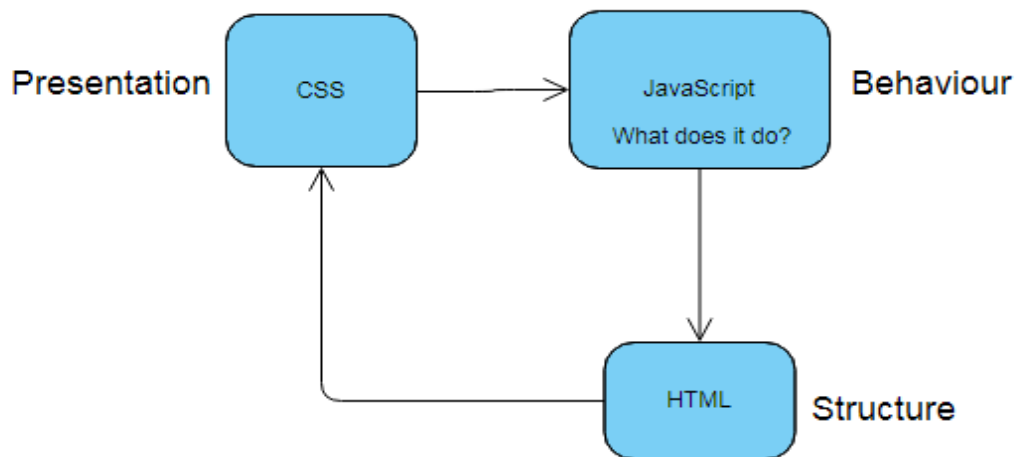
CSS helps to beautify the page but what about dependent functionalities i.e., open this page when click that such as showing error pages, this all done with the help of JavaScript

It is written with in:

```
<script>
```

```
</script>
```

You can add functions inside the JavaScript.

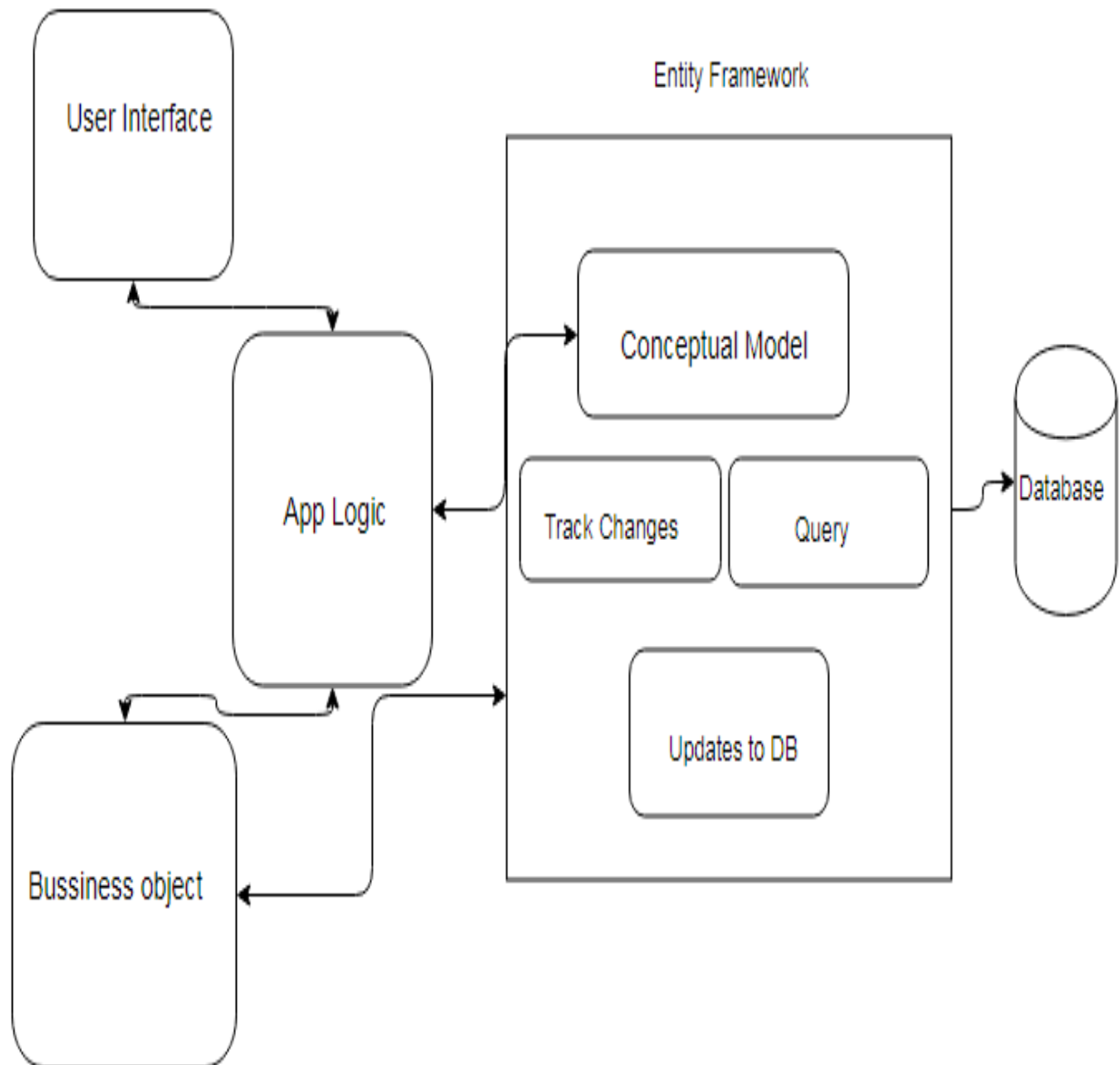


2.5 Entity Framework

Entity Framework eliminates the need for writing a lot of code for implementing the data access logic by executing queries using LINQ syntax.

It is an open-source ORM (Object Relational mapper) framework for .NET applications supported by Microsoft that makes it easy for developers to work with data which is kept in the database without actually using the database.

CHAPTER 3: PROJECT DEVELOPMENT



3.1 Database Implementation

The below mentioned are the database Tables and their attributes that are used for the project.

1. Employee: Attributes contained by this table are

- User Name
- User Password
- Phone Number
- Date of Birth
- Address

2. Vendor: Table contains attributes

- Vendor Id
- Vendor Password
- Vendor Name

3. FCoupon: Table contains attributes

- Coupon Id
- Item Id
- User Name
- Vendor Id
- Price

4. Food Coupon: Table contains attributes

- Coupon Id
- Item Id
- User Name
- Vendor Id
- Price

5. Food Court: Table contains attributes

- Food Id
- Fc Name

6. Food Item: Table contains attributes

- Item Id
- Name
- Price
- Vendor Id

7. MCoupon: Table contains attributes

- Coupon Id
- Mid
- User Id
- Price

8. Movie Coupon: Table contains attributes

- Coupon Id
- Mid

- User Id
- Price

9. Movie Vendor: Table contains attributes

- Movie Vendor Id
- MPassword

10. Multiplex: Table contains attributes

- Mid
- MovieName
- Screen No.
- Total Seats
- Price
- At Time1
- At Time2
- Evening Seats
- Morning Seats

11. Rating: Table contains attributes

- Rating Id
- User Name
- Rating Val
- Message

3.2 Data Access Layer

This layer is an intermediate between the MVC Layer and database.

Its main purpose is to help in performing the CRUD operations on database.

CRUD – Create, Read, Update, Delete.

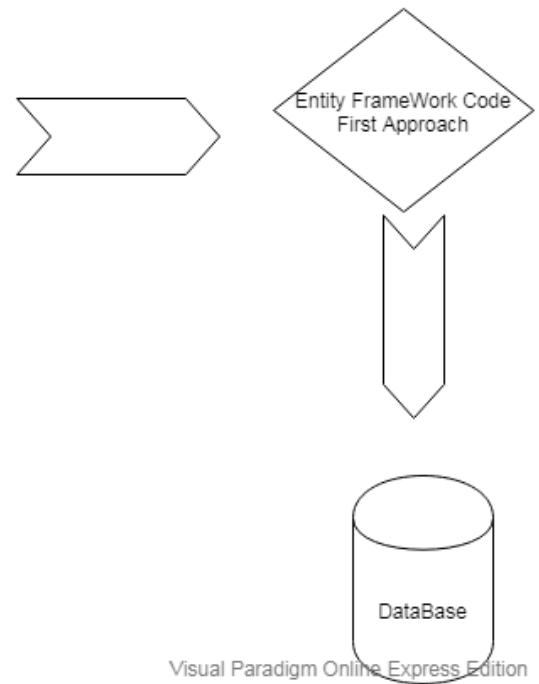
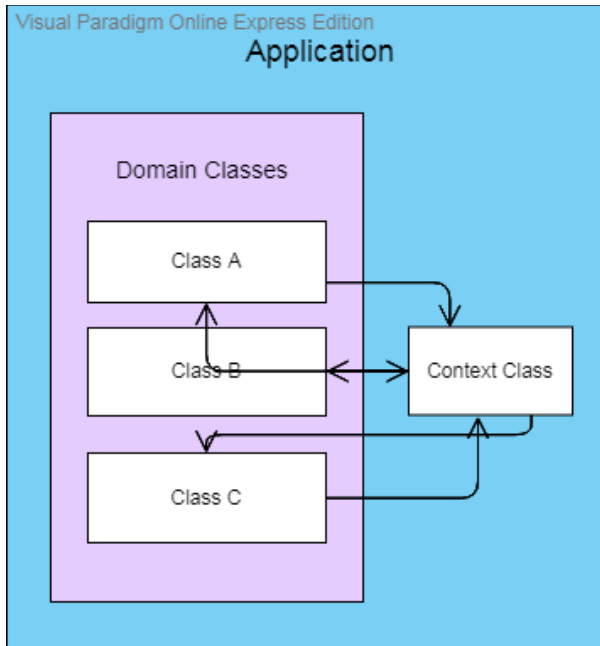
The EaseInfy Repository contains the following functionalities:

- **Get All Food Courts:** It extracts the name all the food courts from database with respect to their availability.
- **View Rating:** It extracts top/most recent five ratings from the database.
- **Get All Vendors:** It extracts the name all the vendors associated.
- **Get All Food Items:** It is specifically for vendors and extracts the name all the food items that the vendor has uploaded.
- **Get Food items:** It is specifically for the employees and extracts the food items that the vendors have mentioned.
- **Get Employee:** It extracts all the details of the registered employees.
- **Get Food List by Name:** The food items ordered by the user.
- **Get all Movies:** Movies that the Vendor has mentioned for the weekend.

- **View Customers:** Extract the details of the customers that have registered themselves.
- **AddFoodItem:** The recently added food items by the vendor are extracted.
- **AddFCoupon:** Coupons that can be added by the vendor including itemid, price and vendor id.
- **BillAmount:** It extracts the bill amount according to the price of the food item mentioned by the vendor.
- **GetBill:** Extracts the Bill details.
- **GetFCoupons:** It shows the itemid, price and the vendor from which item is purchased.
- **Clear Bill:** The database clears all the details of bill after its generation.
- **Get OTP:** It extracts a random number for every entry.
- **FindOTP:** It finds the OTP in the data set for the input given by the user.
- **VerifyOTP:** Checks if the generated OTP is same as that of Random OTP generated.
- **DeleteFoodItem:** List of food items that are removed from the menu.

- **ValidateEmployee:** At the time of login database checks the data with the existing data set.
- **ValidateVendor:** At the time of login database checks the data with the existing data set.
- **ValidateMovieVendor:** At the time of login database checks the data with the existing data set.
- **UpdateEmployee:** Any updation of new employee or updation of details of existing employee.
- **UpdateFoodItem:** The food items added/deleted by vendor is extracted.
- **UpdateMultiplex:** The movie name, seat number, screen number, timings can be updated.
- **GetUser:** Users who availed the services from the vendors.
- **RegisterUser:** The basic details for the registration of Users.
- **SaveRating:** Stores the rating done by the customers.

3.3 Design Architecture/System/Sub-System Context Diagram



3.4 Controllers

1. **Home Controller:** This controller is responsible to perform credential Validations and login and logout sessions, also the details of the web application regarding what it offers and its contact details also are a part of Home Controller.

The Functionalities included are:

- Login Employee
- Login Vendor
- Login Movie
- About
- Contact
- Register
- Check Employee
- Check Credentials
- Check Vendors
- Check Movie Vendors

2. **Employee Controller:** It controls all the functionalities that the employee as a user would need like selection, purchase, OTP generation and Bill generation.

It consists of the following functionalities:

- View Rating
- Rating
- Save Rating
- View Food Court
- View Vendor
- View Food Items
- View Movies
- Select Food
- Purchase Food
- Select Movie
- View Bill

- Generate OTP
- Generate Bill
- Generate Bill Movie
- Verify OTP
- Payment Done
- Print Bill
- Update Profile
- Same Updated Profile
- Logout

3. **Movie Controller:** It controls the updation of movies by the vendor and view of the movies its timings, screen number, seats availability and selection.

The Functionalities included are:

- View Movie
- Update Movie

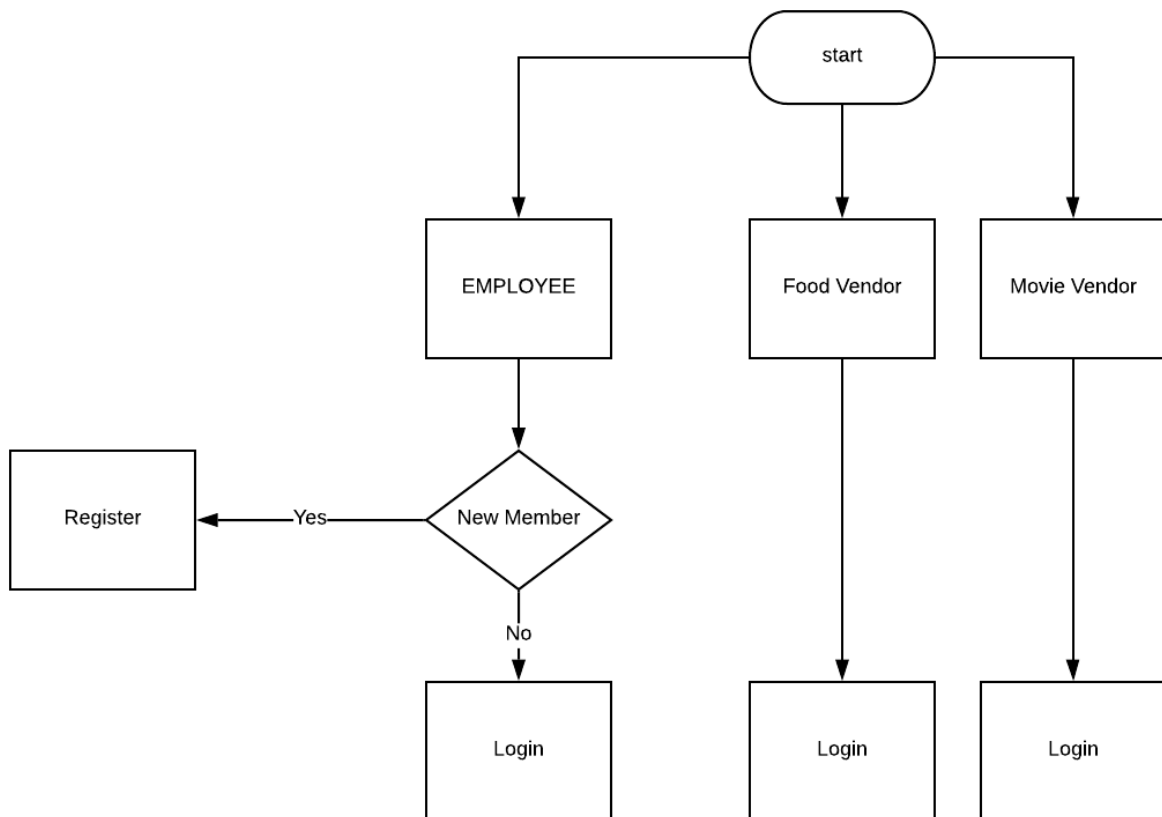
4. **Vendor Controller:** This controller's functionality is to view who all are its customers, add/delete food items and save them.

The Functionalities included are:

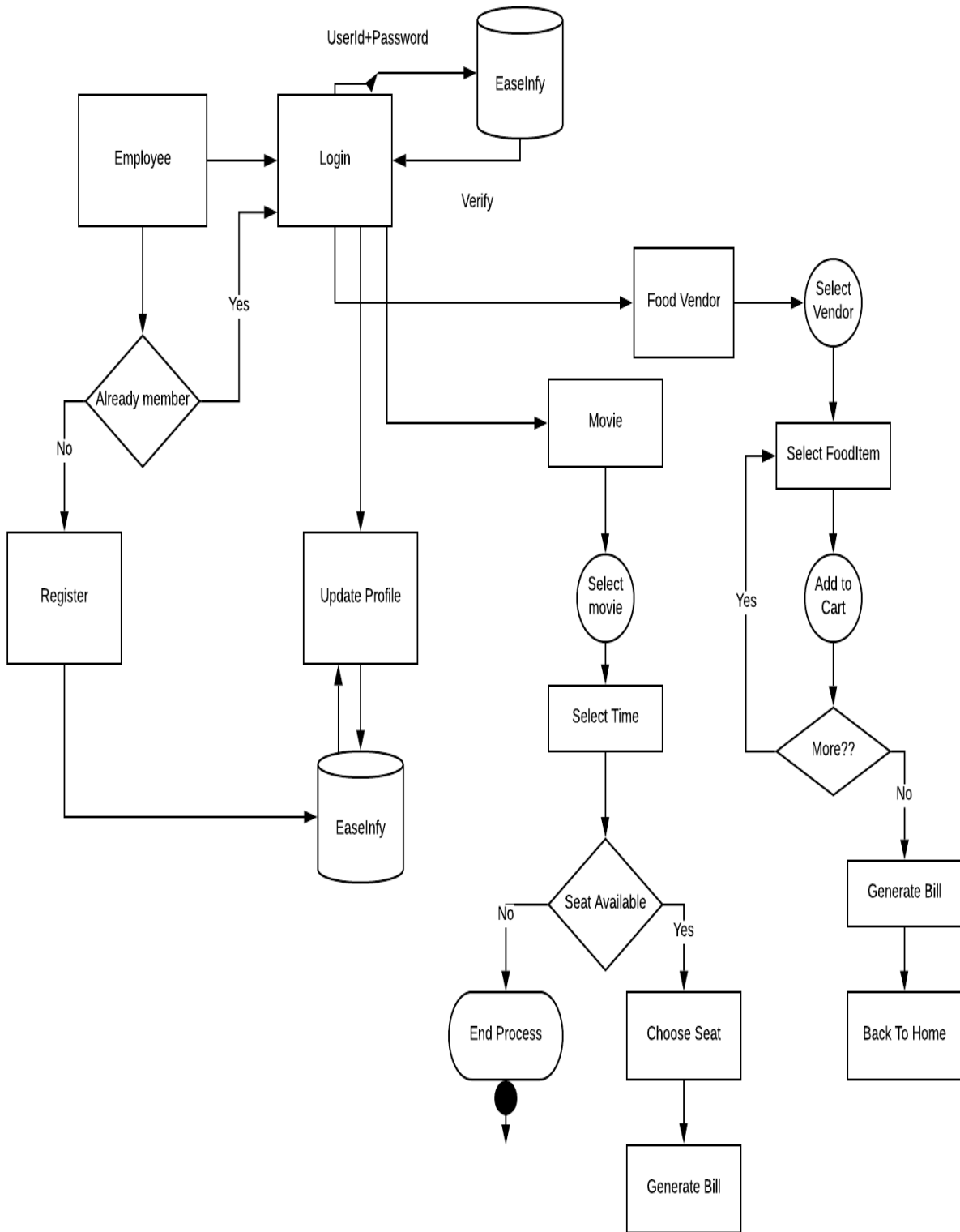
- View Customer
- View Food Items
- Delete Items
- Add Food Items
- Save Added Items
- Save Update Price
- Save Deletion

3.5 Views, Functionalities and Control Flow

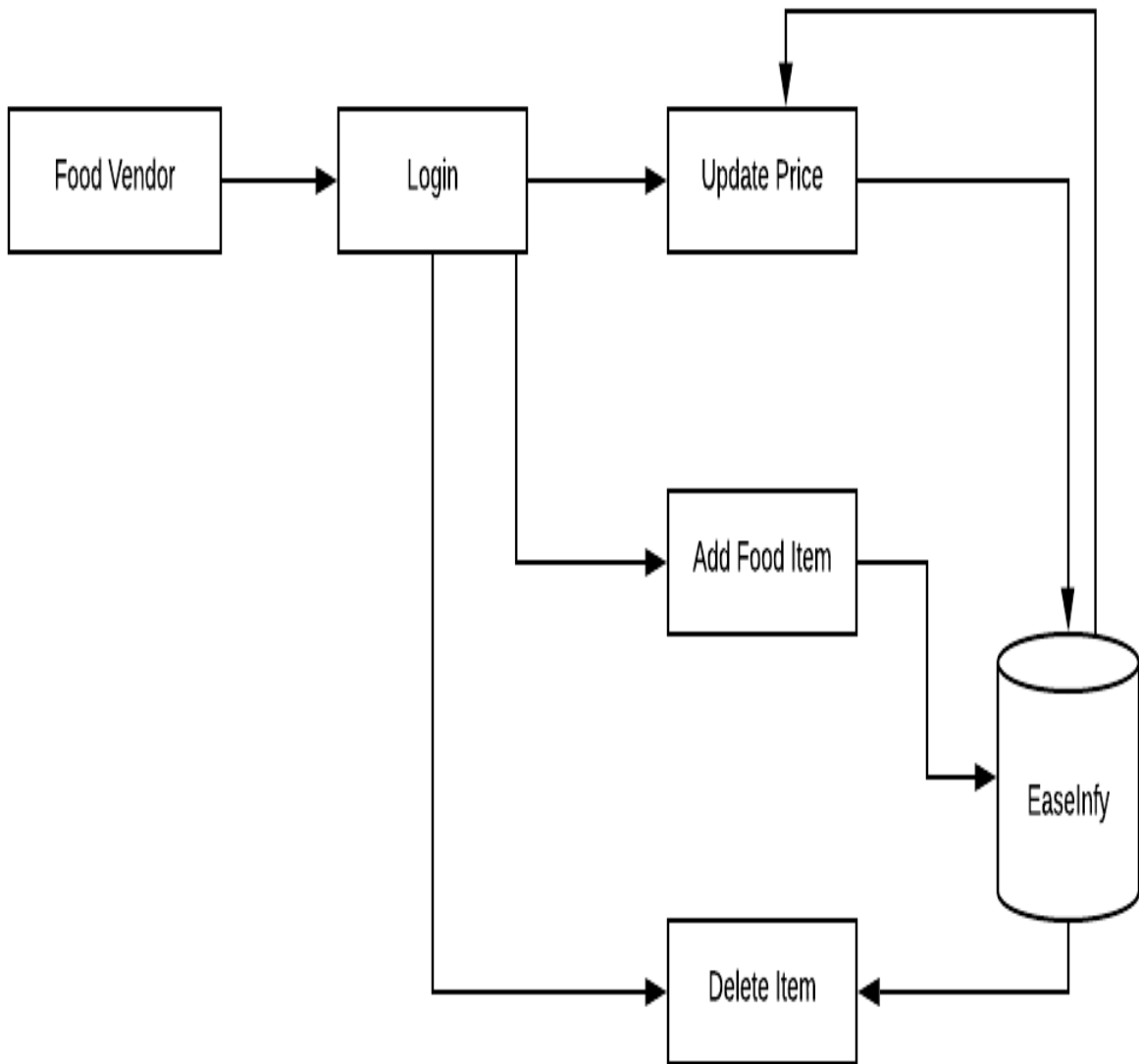
1. This Picture shows who can use it: Employee, Food Vendor, Movie Vendor



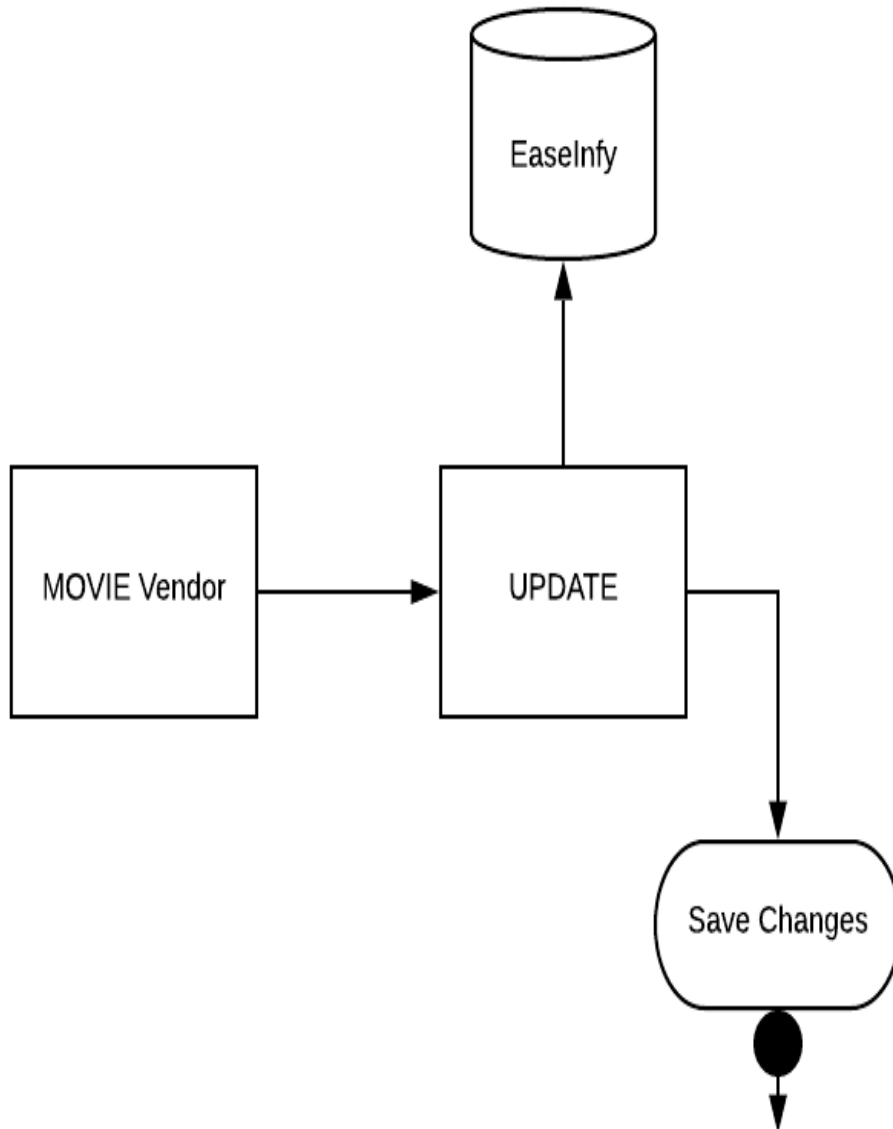
2. Functionalities of Employee



3. Functionalities of Food Vendor



4. Functionalities of Movie Vendor



A. VIEWS

1. Employee:

- View Rating
- View Food Court
- View Vendor
- View Food Items
- View Movies
- Select Food
- Select Movie
- View Bill
- Generate OTP
- Generate Bill
- Generate Bill Movie
- Update Profile

2. Home:

- About
- Contact
- Index
- Login Employee
- Login Movie
- Login Vendor
- Privacy
- Register
- Success

-

3. Movie:

- Update Movie
- View Movie

4. Vendor:

- View Imports
- View Vendors

5. Shared Layouts:

Many views are used as shared layout by other views. The similar logo, header, footer are displayed on each of the webpages. It is used to maintain a consistent look and structure. Therefore to avoid repetition the shared layout file is maintained.

Below mentioned are the layouts used in the project:

- Layout
- Layout Error
- Layout Movie
- Layout Vendor
- Employee Layout
- Error

3.6Models

- Employee
- Vendor
- FCoupon
- Food Coupon
- Food Court
- Food Item
- MCoupon
- Movie Coupon
- Movie Vendor
- Multiplex
- Rating

Chapter 4: System Development

4.1 Functional Requirements

The application should be used by the employees of the organization for View of Food Items, Food Courts, Movies for the weekend and Seat Selection .The employee will be one of the three user of the the application available for the different users.

A user can see the basic functionalities of the Web Application without logging in.But to make changes the User be it Employee or Vendor has to register and then login.

After login to the application

For User:

- View the list of all the food courts.
- View all the food items with its price.
- Select the Food item to order.
- Place order of food items.
- View the list of movies
- Select seats
- Generate OTP for verification
- Generate Bill
- Rate Services
- View previous ratings

For Guest User:

- View the services provided by the web application
- Register as an employee

For Food Vendors:

- Add food item to list
- Delete food items from list
- Change price of a particular food item
- View of its customers
- View food items

For Movie Vendors:

- Update Movie for weekend
- View customers

4.2 User Interface and Hardware/ Software and Platform

User Interface:

- Should be user friendly and easy to understand by the user.
- Should auto adjust to various screen sizes.
- Any user can view the web application but only registered users can avail the services.

Software:

- Visual Studio 2017
- Microsoft SQL Server Management Studio 2017

Chapter 5: Performance Analysis

5.1 Test Environment

- Hardware: Window 7 Desktop
- Software: Visual Studio 2017, Microsoft SQL Server Management Studio 2017

1) Login

<u>Sr. No.</u>	<u>Test Condition</u>	<u>Expected Result</u>	<u>Status</u>
1	Successful Login	Admin Page	Pass
2	Validation of credentials	Alert Box	Pass
3	Validation of credentials	Proper User Friendly Message	Pass

2) Register Page

<u>Sr. No.</u>	<u>Test Condition</u>	<u>Expected Result</u>	<u>Status</u>
1	Successful Registration	Login Page	Pass
2	Validation of credentials	Proper User Friendly Message	Pass
3	Validation of Data Annotations	Proper User Friendly Message	Pass
4	Unsuccessful Registration	Error Page	Pass

3) Movie Vendor Page

<u>Sr. No.</u>	<u>Test Condition</u>	<u>Expected Result</u>	<u>Status</u>
1	Successful Login	Ticket booking Page	Pass
2	Unsuccessful Login	Error Page	Pass
3	Validation of Credentials	Display of proper message	Pass

4	Validation of Data Annotations	Display of proper message	Pass
---	--------------------------------	---------------------------	------

4. Food Court Vendor Page

<u>Sr. No.</u>	<u>Test Condition</u>	<u>Expected Result</u>	<u>Status</u>
1	Successful Login	Food Menu Page	Pass
2	Validation of Credentials	Display proper message	Pass
3	Unsuccessful Login	Error Page	Pass
4	Validation of Data Annotations	Display proper message	Pass

5. OTP Generation

<u>Sr. No.</u>	<u>Test Condition</u>	<u>Expected Result</u>	<u>Status</u>
1	OTP is generated successfully	Payment Page	Pass
2	OTP not generated successfully	Error Page	Pass

3	OTP matched correctly	Payment Page	Pass
4	Incorrect match of OTP	Error Page	Pass

6. Menu Display Page

<u>Sr. No.</u>	<u>Test Condition</u>	<u>Expected Result</u>	<u>Status</u>
1	Selection of any food item	Bill Generation Page	Pass
2	Deselection of any unwanted food item	Same page stays	Pass
3	Final submission of selected food items	Bill Generation Page	Pass

7. Movie Display Page

<u>Sr. No.</u>	<u>Test Condition</u>	<u>Expected Result</u>	<u>Status</u>
1	Selection of movie currently being showed	Seat selection Page	Pass
2	Unselecting or Changing of already selected movie	Same page stays	Pass

8. Seat Generation Page

<u>Sr. No.</u>	<u>Test Condition</u>	<u>Expected Result</u>	<u>Status</u>
1	Selecting a seat in the multiplex	Bill generation page	Pass
2	Unselecting or Changing already selected seats	Same page stays	Pass

Chapter 6:Results

ScreenShots

LOGIN

WHO DO YOU WANT TO LOGIN AS?



ABOUT

1

FOOD COURTS

Pull up a chair. Take a taste. Life is so endlessly delicious. And do you know the best update for the day? No long queues anymore! Because we are here to provide you the easiest and best way to order your food at just one go!

2

MULTIPLEX

What's a bigger mystery box than a movie theater? We realise the importance of entertainment after a hectic weekend! We have come up with a solution for you to be hassle free while booking your movie tickets at our very own Multiplex.

WANT TO CONTACT US? CALL 1234567890

You can also contact us through email.

ABC@GMAIL.COM

CONTACT

ADDRESS

Infosys Limited.
Mysore, Karnataka

OPENING HOURS

Exit time: 8:00 pm
Enter before: 9:30 pm
Duh!

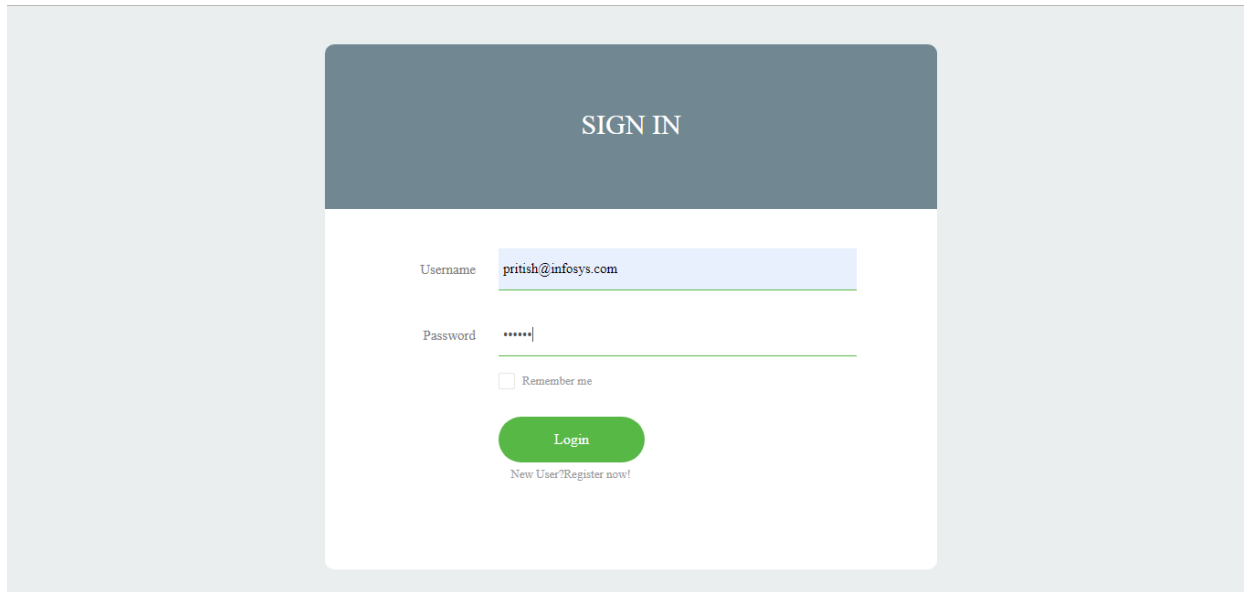
CONTACT INFO

Phone: 1234567890
Email: abc@gmail.com

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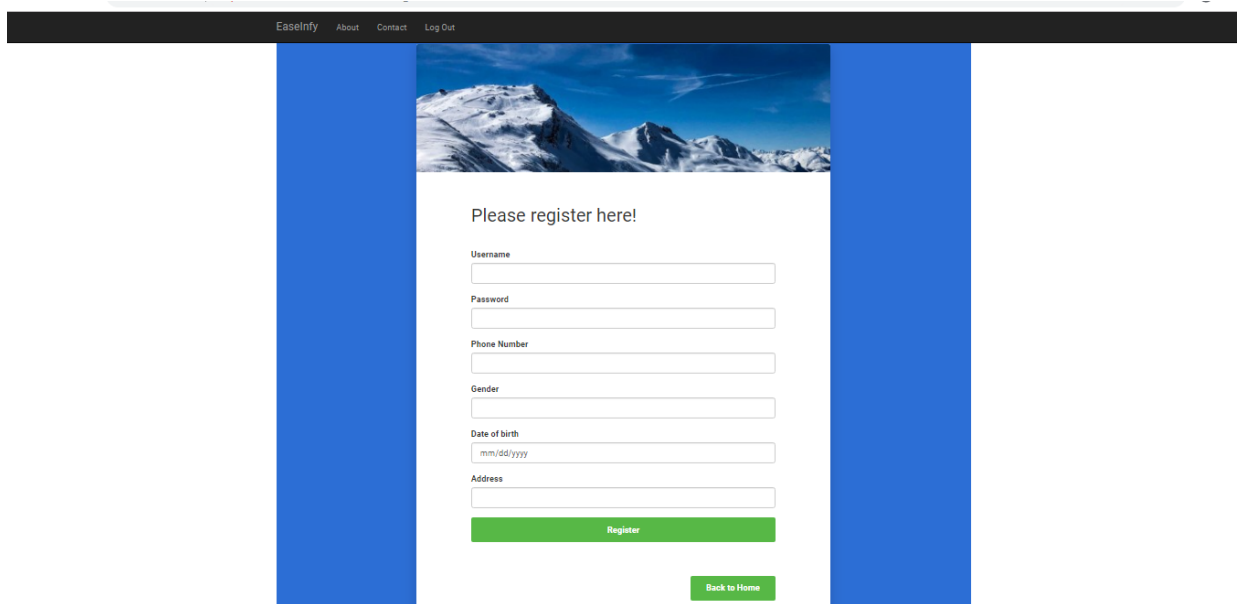
[Our Privacy Policy](#)

LOGIN

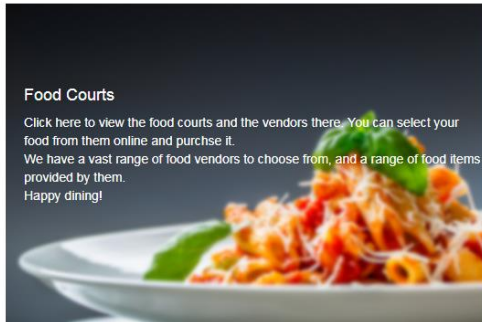


The screenshot shows a login form with a dark blue header containing the text "SIGN IN". Below the header, there are two input fields: "Username" with the value "prish@infosys.com" and "Password" with masked characters "*****". A "Remember me" checkbox is present and unchecked. A green "Login" button is centered below the fields. At the bottom, there is a link that says "New User? Register now!".

REGISTER

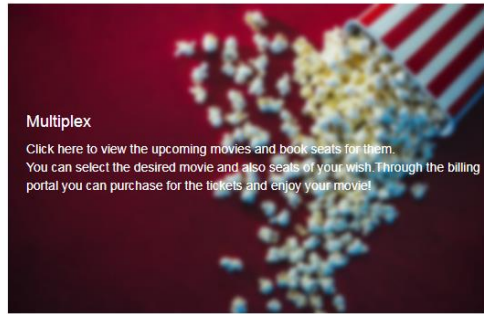


The screenshot shows a registration form with a black header containing navigation links: "EaseInfy", "About", "Contact", and "Log Out". Below the header is a blue vertical bar on the left and right, and a central white area with a background image of snow-capped mountains. The form title is "Please register here!". It contains several input fields: "Username", "Password", "Phone Number", "Gender", "Date of birth" (with a placeholder "mm/dd/yyyy"), and "Address". A green "Register" button is positioned below the "Address" field. At the bottom right, there is a green "Back to Home" button.



Food Courts

Click here to view the food courts and the vendors there. You can select your food from them online and purchase it. We have a vast range of food vendors to choose from, and a range of food items provided by them. Happy dining!



Multiplex

Click here to view the upcoming movies and book seats for them. You can select the desired movie and also seats of your wish. Through the billing portal you can purchase for the tickets and enjoy your movie!

© 2019 - Easelnfy

UPDATE EMPLOYEE

Update your profile

Username

Username is mandatory.

Password

Password is mandatory.

Phone Number

Phone Number is mandatory.

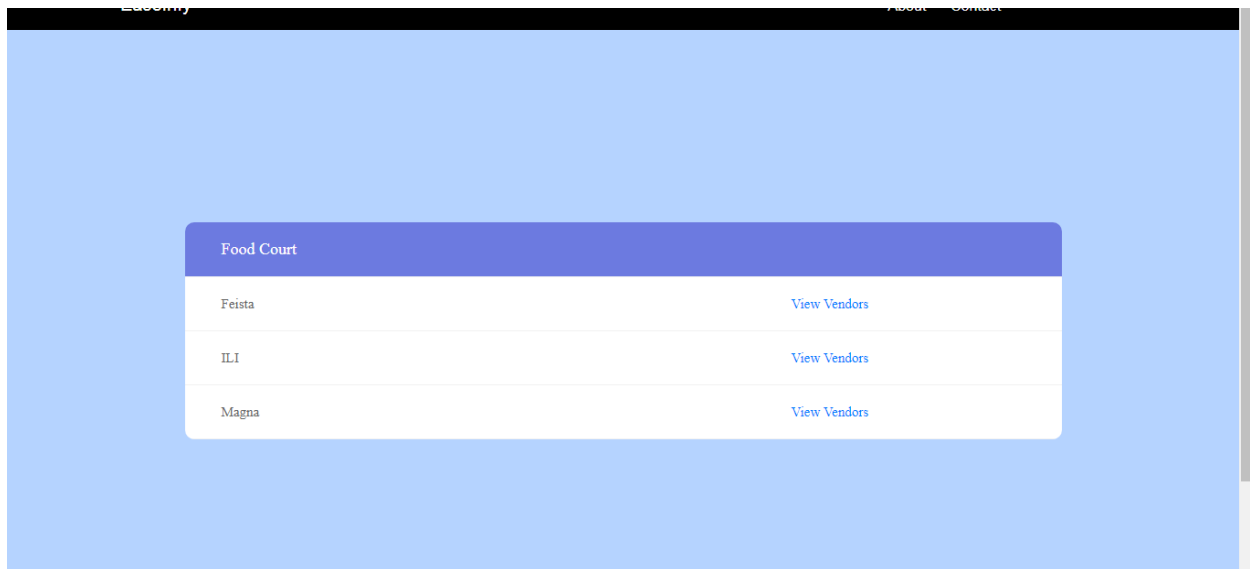
Gender

Gender is mandatory.

Address

Address is mandatory.

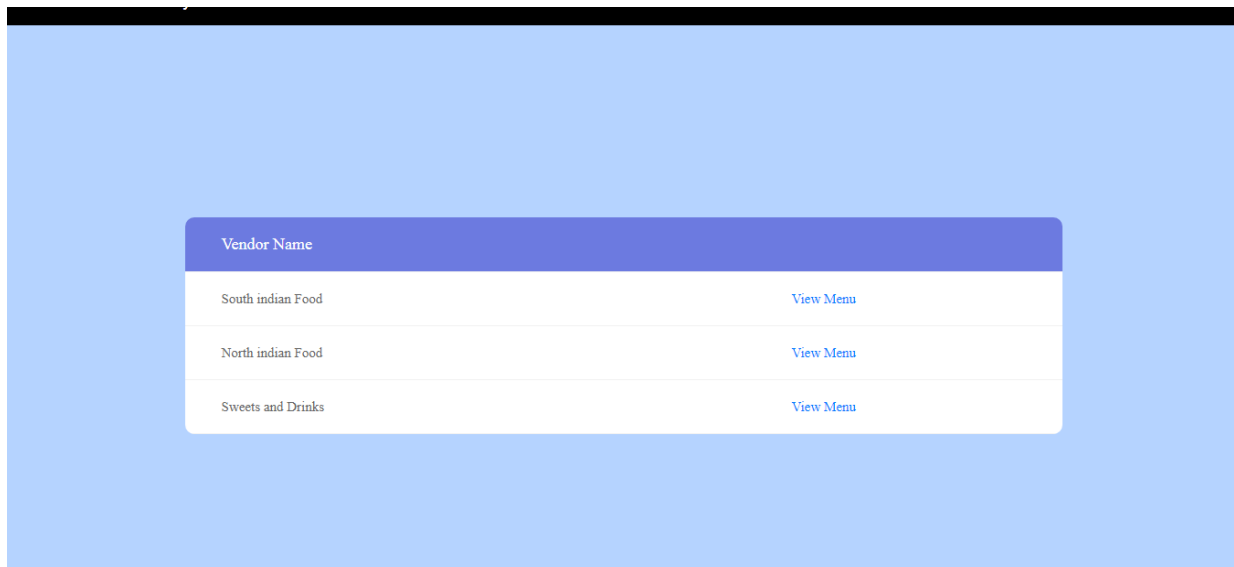
VIEWFOODCOURTS



The screenshot shows a web page with a light blue background. At the top, there is a black navigation bar with the text "Home" on the left and "About Contact" on the right. Below the navigation bar, there is a table with a blue header row labeled "Food Court". The table contains three rows of data, each with a food court name and a "View Vendors" link.

Food Court	
Feista	View Vendors
ILI	View Vendors
Magna	View Vendors

VIEWVENDORS



The screenshot shows a web page with a light blue background. At the top, there is a black navigation bar with the text "Home" on the left and "About Contact" on the right. Below the navigation bar, there is a table with a blue header row labeled "Vendor Name". The table contains three rows of data, each with a vendor name and a "View Menu" link.

Vendor Name	
South indian Food	View Menu
North indian Food	View Menu
Sweets and Drinks	View Menu

VIEW MENU

Food Item	Price	
Sweetcorn Dosa	40.00	Select
Paper Dosa	45.00	Select
Set Masala Dosa	30.00	Select
Masala Rawa Idli	40.00	Select
3 Masala Idli	35.00	Select

SELECT FOOD

Select Food

Item Id

Username

Price

Vendor Id

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LIST

Welcome pritish@infosys.com

Item Id	Name	Price
134	Sweetcorn Dosa	40.00

Want to Purchase More Item?

[Verify OTP](#) [Generate OTP](#)

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OTP GENERATION

otp (44).pdf 1 / 1

Thanks for availing services from EaseInfy.

Username-
pritish@infosys.com

Total Amount-
40.00

One-time password-
JnlIJY

Navigation icons: Refresh, Download, Print, Bookmark, Zoom in (+), Zoom out (-).

OTP VERIFICATION

Verify your OTP

Enter your one-time password.

Verify

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VIEW BILL

View your Bill

Username pritish@infosys.com
Amount 40.00

Pay Now

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BILL

Payment Done!

[Print Coupons](#)

Coupon Id	Item Id	Price	Vendor Id
4017	134	40.00	107

Don't forget to rate us [BackToHome](#)

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MOVIE SELECTION

Movie	Movie Id	Screen Number	Seats Available	Book Seats
Shazam	1	1	Not Available	House Full
Avengers:End Game	2	2	Not Available	House Full
Kesari	3	3	71	Book
Kabir Singh	4	4	72	Book

SEAT SELECTION

Selected Movie Information

Movie Id

Username

Price

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Select
Seat of
Your
Choice

<https://localhost:44353/Emolovee/SelectMovie?Mid=3&MovieName=Kesari&Scre...>

SEAT MATRIX

SCREEN THIS WAY

1	2	3	4	5		7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24
25	26		28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70	71	72

[Click for Bill](#)

SELECTED MOVIE LIST

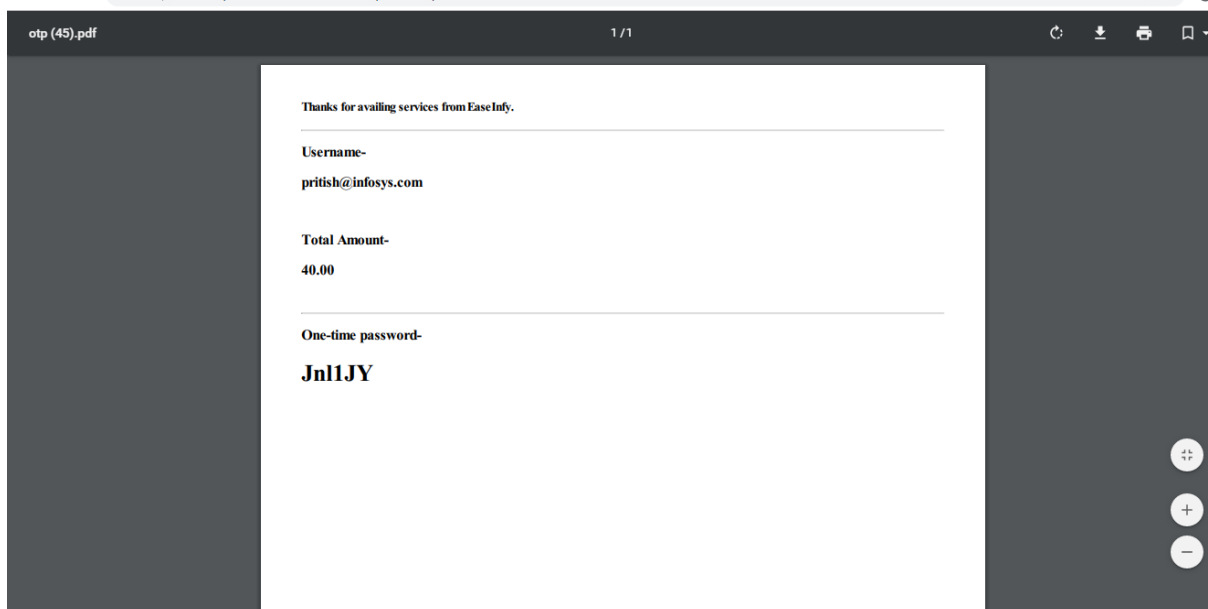
Movies Selected

Mid	MovieName	ScreenNo	Price
3	Kesari	3	100.00

[Verify OTP](#) [Generate OTP](#)

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OTP GENERATION



VERIFY OTP

[Easelny](#) [About](#) [Contact](#) [Log Out](#)

Verify your OTP

Enter your one-time password.

Verify

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BILL

Payment Done!

[Print Coupons](#)

Coupon Id	Movie Id	Price
1023	3	100.00

[Rate Us](#)

[BackToHome](#)

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FOOD VENDOR



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UPDATE FOOD ITEM SELECTION

Item Id	Name	Price	Update Items
100	Masala Dosa	40.00	Update
101	Onion Dosa	45.00	Update
102	Idli	30.00	Update
103	Rawa Idli	40.00	Update
104	Podi Idli	35.00	Update

UPDATE FOOD ITEM

UpdateFoodItem

FoodItem

Item Id

Name

Price

[Back to List](#)

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VIEW CUSTOMERS

ViewCustomers

CouponId	Mid	Userld
1004	1	pritish@infosys.com
1005	1	pritish@infosys.com
1006	1	pritish@infosys.com
1007	1	pritish@infosys.com
1008	1	pritish@infosys.com
1009	1	pritish@infosys.com
1010	1	pritish@infosys.com
1011	1	pritish@infosys.com
1012	1	pritish@infosys.com
1013	1	pritish@infosys.com
1014	1	pritish@infosys.com
1015	4	pritish@infosys.com
1016	1	pritish@infosys.com

SEAT UPDATION SELECTION



The screenshot shows a web browser window with the URL `http://localhost:44353/Movie/ViewMovies`. The page title is "MOVIES". Below the title is a table with the following data:

Movie	Movie Id	Screen Number	Available Seats	Update.
Shazam	1	1	0	Update
Avengers:End Game	2	2	0	Update
Kesari	3	3	70	Update
Kabir Singh	4	4	72	Update

UPDATE MOVIES

Update Movie

Movie Name

Screen Number

Total Seats

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Chapter 7: Conclusion

7.1 Conclusion

The entire project EaseInfy was up to the satisfaction of Our mentors/Clients. All the user requirements are fulfilled and the application works well in the intranet environment of an organization. The Application is well tested in different erroneous conditions and the errors are handled properly in debugging phase. The Users can login and logout successfully without facing any session error. The Application works fine in different conditions of respective systems. It can be improved further and can offer additional functionalities in terms of addition of payment portal.

7.2 Future Scope

The Application has covered all the requirements provided by the Client. It can be modified further to implement the extra requirements and functionalities and the improvements can be made easily. Improvements can be executed by adding new modules. Further enhancements that can be added includes:

1. Better User-Interface
2. More functionalities can be added with respect to the payment portal.
3. The web application can also be converted to an Android App for more frequent use.

References

1. ASP.Net.MVC Infosys Lex.
2. Programming ASP.NET MVC 5 - C# Corner
3. Programming ASP.NET MVC 5 A Problem Solution Approach, Nimit Joshi Software Developer Sam Hobbs Editor, C# Corner