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AMERICAN INTERNATIONAL UNIVERSITY–BANGLADESH (AIUB)

Dept. of Computer Science
Faculty of Science and Technology

CSC2210: OBJECT ORIENTED PROGRAMMING 2

Spring 2023-2024

Section: A

Group No: 3

Project Report On BiyerDhum(Wedding Management System)

Supervised By

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Submitted By

Name	ID	Contribution
1. Apurbo,Tamim Hasan	22-47600-2	DataBase, Report, Presentation, VIDEO Presentation
2. Asif,Mahdi Hassan	22-47345-2	Booking Form, Customer Form, Admin Pannel, Payment Form, View Booking
3. Alam,Mir Farhana Jarin	22-47568-2	loginform,welcomeform,adminLoginForm, STAFF LoginFORM



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CO2: Display and verify the mean of a real-life Project using the concepts of C# Graphical User Interface based environment with database integration to depict a desktop-based application.

Assessment Criteria	Not Attended/ Incorrect (0)		Inadequate (1-2)	Average (3)	Good (4)	Excellent (5)
Evaluation Criteria	Evaluation Definition					Total = 15
Requirement fulfillment	Fails to demonstrate any understanding of real-life scenario-based project development or functional requirement identification. There is no attempt to depict a project or identify functional requirements accurately.	Demonstrates limited understanding of real-life scenario-based project development and functional requirement identification. The project depicted lacks coherence or relevance to real-life scenarios, and functional requirements are inaccurately identified or insufficiently described.	Presents a basic depiction of a real-life scenario-based project and identifies some functional requirements. However, the project lacks depth or complexity, and some functional requirements may be vaguely defined or missing key details.	Effectively demonstrates a realistic scenario-based project and accurately identifies most functional requirements. The project is well-developed with appropriate complexity, and functional requirements are clearly articulated with relevant details.	Exhibits an exceptional understanding of real-life scenario-based project development and accurately identifies all functional requirements. The project is meticulously developed with thorough attention to detail, reflecting a comprehensive understanding of Object-Oriented Programming project development activities.	
Validation	Fails to demonstrate any understanding or implementation of validation forms in their system. There is no attempt to deal with data validation, and validation requirements are completely ignored or incorrectly applied.	Demonstrates limited understanding of validation forms and data validation techniques. While some attempt may be made to implement validation, it is incomplete or poorly executed, leading to inadequate handling of data validation.	Shows a basic understanding of validation forms and data validation techniques. They attempt to implement validation, but some aspects may be missing or incorrectly implemented, resulting in partial or inconsistent handling of data validation.	Effectively demonstrates the use of validation forms and implements data validation techniques. Validation is mostly accurate and comprehensive, ensuring the proper handling of data input and verification in the system.	Exhibits an exceptional understanding and implementation of validation forms and data validation techniques. Validation is meticulously implemented with thorough attention to detail, ensuring robust data validation procedures and contributing to the overall reliability and integrity of the system.	



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Verification	Fails to demonstrate any attempt to verify the system data or functional requirements. There is no evidence of understanding or implementation of verification processes, and data flow is not considered.	Demonstrates limited understanding of verification processes and data flow in the system. Verification attempts are incomplete or inaccurate, and there is insufficient consideration given to ensuring data integrity and functionality.	Shows a basic understanding of verification processes and attempts to verify system data. However, verification efforts may be inconsistent or lack thoroughness, and there may be gaps in ensuring proper functional requirements and data flow.	Identifies and verifies system data, ensuring proper functional requirements are met. Verification efforts are mostly accurate and thorough, with attention to ensuring data integrity and appropriate data flow within the system.	Exhibits an exceptional understanding of verification processes and meticulously verifies system data. Verification efforts are comprehensive and precise, with a keen focus on ensuring all functional requirements are met and maintaining proper data flow throughout the system.	
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CO3: Prepare and Explain a real life desktop based application synthesizing several component of C# along with development tools to adhere the given requirements.

Assessment Criteria	Not Attended/ Incorrect (0)	Inadequate (1-2)	Average (3)	Good (4)	Excellent (5)	
Evaluation Criteria	Evaluation Definition					Total = 15
Organization of the application	Fails to identify any suitable real time application or requirements for project development activities related to OOP.	Limited understanding about the project scopes and scenarios or identification of functional requirements.	Lacks depth or relevance to OOP project development activities and may contain inaccuracies. Real-life scenarios are mentioned, but the discussion lacks depth or clarity.	Consider and integrate the idea of several core aspects of the project along with relevance to real-life scenarios. Demonstrating a solid understanding of the application presentation.	Generalize and exhibits an exceptional understanding of project preparation according to a to real-life scenarios. Also contains proper and insightful identification of the system which is comprehensive and precise.	
Representation and Integration of Database	Fails to identify and present any understanding or implementation of database. Also failed to integrate the data	Limited understanding of the database concepts or their proper way of using in a real time	Lacks depth or relevance to database integration with the application. Shows a basic	Integrate the database with the forms properly and implements it with proper validation	Exhibits an exceptional understanding and implementation of database ensuring attention to detail, and robust data	



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	with the project itself.	project. While some attempt may be made to implement but it is incomplete or poorly executed, leading to inadequate design.	understanding but some aspects may be missing or incorrectly implemented, resulting in partial or inconsistency. May lack proper normalization.	which is mostly accurate and comprehensive, ensuring the proper handling of data input and verification along with general normalization.	manipulation procedures and contributing to the overall clarity.	
Graphical User Interface	Fails to present or prepare GUI based application interfaces. There is no evidence of creating or integrating such things according to their usefulness.	Limited understanding of graphical user interfaces. Lack of design knowledge. Very poor attempt to make such things which are currently obsolete or can't be identified as coherent.	Shows a basic understanding of creating user interfaces. Most of them are interconnected but maybe some of them lack it. However, most of it can be described as user friendly.	Effectively identifies and meet the consider the simplicity. Design related works are mostly accurate and taken proper attention to ensuring a user-friendly coherent system.	Exhibits an exceptional work design following a high standard of simple and elegant work. Several controls and mechanism has been organized in a preferred way according to the coherent usage.	



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Chapter:1

Introduction:(Chapter:1.1):-

Embark on your journey to the perfect wedding with BiyerDhum, the ultimate Wedding Management System designed to streamline every aspect of your special day. From seamless bookings to efficient order management, BiyerDhum empowers couples, wedding planners, and vendors with intuitive tools and features, ensuring a stress-free and memorable wedding experience.

Scenario Description:(Chapter:1.2):-

Planning a wedding can be a daunting task with numerous details to manage and coordinate. To simplify this process, "BiyerDhum" offers a comprehensive Wedding Management System tailored to the needs of couples, wedding planners, and vendors alike.

For couples, BiyerDhum provides a user-friendly interface with separate logins for customers, admins, and staff. Upon logging in, couples can access a range of wedding-related resources, including customizable packages designed to fit various themes, budgets, and preferences. They can specify guest counts and select quantities for drinks and biriyani, with the system instantly generating a total cost and guiding them to the payment page for secure transactions.

Admins have their own dedicated panel, accessible through separate logins, where they can view customer orders, add, edit, or delete customer accounts, and manage staff accounts. This centralized admin platform ensures efficient management of orders and personnel.

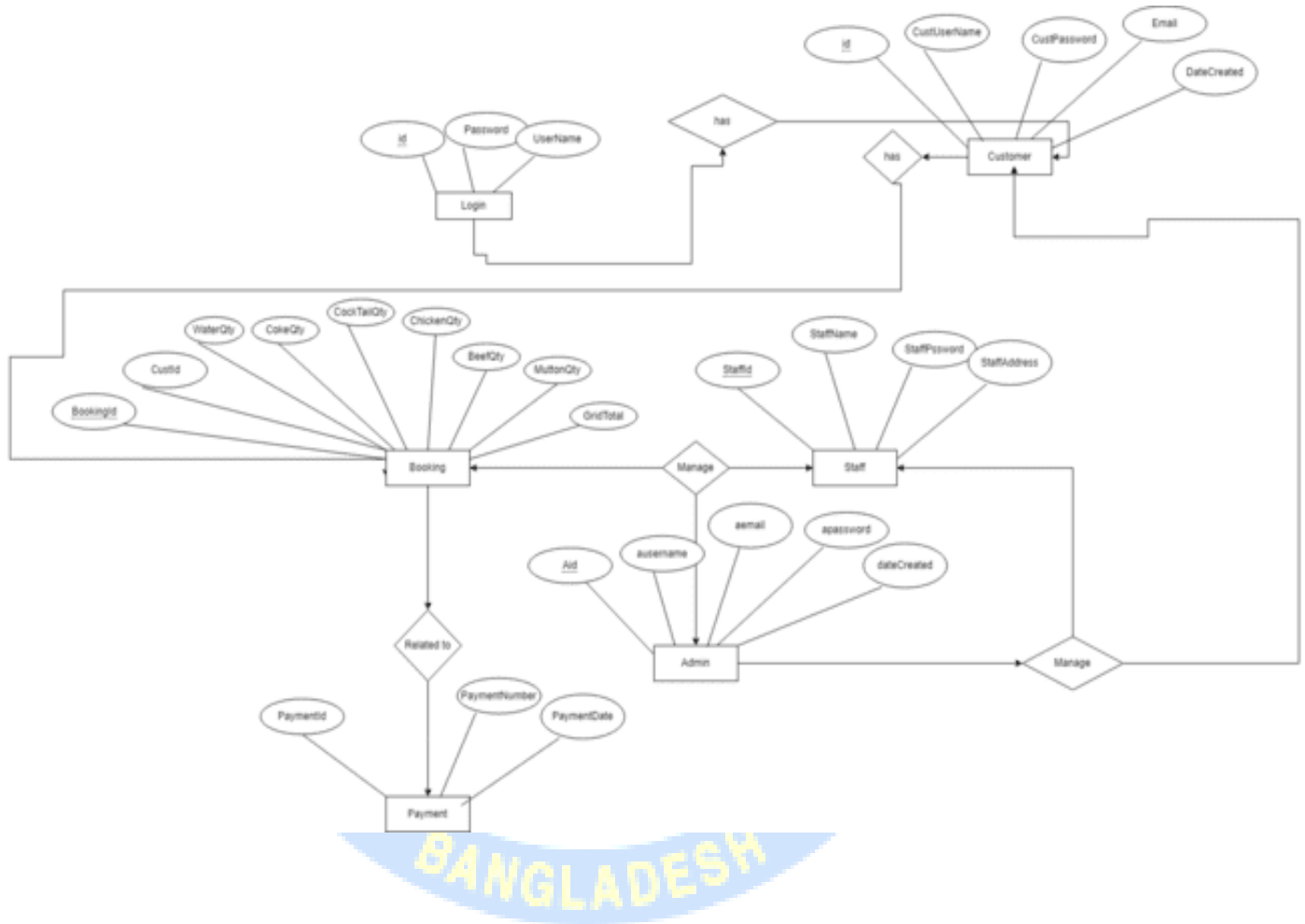
Staff members, with their unique login credentials, have access to a simplified interface displaying only customer orders. This allows them to focus on fulfilling orders and providing excellent customer service without unnecessary distractions.

Overall, BiyerDhum revolutionizes the wedding planning process by providing a streamlined platform for couples, wedding planners, and vendors to collaborate and create memorable weddings with ease and efficiency.



Chapter-:2

ER Diagram:(Chapter-:2.1)





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Normalization:(Chapter-:2.2)

Database Name -: LoginDB

1. Table Name: Admin

Columns:

aid (PRIMARY KEY)

aemail

username

password

date_created

2. Table Name: Customer

Columns:

CustId (PRIMARY KEY)

CustName

CustAdd

CustPhone

3. Table Name: CustomerLogin

Columns:

id (PRIMARY KEY)

email

CustId (FOREIGN KEY to Customer table)

Custusername

Custpassword

date_create

4. Table Name: Staff

Columns:

sid (PRIMARY KEY)

semail

susername

spassword

date_created

5. Table Name: StaffDetail

Columns:

StaffId (PRIMARY KEY)

StaffName

StaffPhone

StaffAddress



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6. Table Name: Booking

Columns:

Bid (PRIMARY KEY)

BDate

BTime

CustId (FOREIGN KEY to Customer table)

Person

Dishes

Drinks

CostFood

OtherCharges

GrdTotal

Advance

Balance

7. Table Name: ViewBooking

Columns:

BookingId (PRIMARY KEY)

Bid (FOREIGN KEY to Booking table)

WaterPrice

WaterQty

CokePrice

CokeQty

CocktailPrice

CocktailQty

MuttonPrice

MuttonQty

ChickenPrice

ChickenQty

BeefPrice

BeefQty

TotalCost



Final Table and Optimized Table:(Chapter-:2.3)

1. Table Name: Admin

Columns:

aid (PRIMARY KEY)

aemail

username

apassword

date_created



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2. Table Name: Customer

Columns:

CustId (PRIMARY KEY)

CustName

CustAdd

CustPhone

Cemail

3. Table Name: Staff

Columns:

StaffId (PRIMARY KEY)

semail

susername

spassword

date_created

4. Table Name: Booking

Columns:

Bid (PRIMARY KEY)

BDate

BTime

CustId (FOREIGN KEY to Customer table)

StaffId (FOREIGN KEY to Staff table)

Person

Dishes

Drinks

CostFood

OtherCharges

GrdTotal

Advance

Balance

5. Table Name: Menu

Columns:

MenuId (PRIMARY KEY)

ItemName

ItemPrice





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6. Table Name: BookingItems

Columns:

BookingItemId (PRIMARY KEY)

Bid (FOREIGN KEY to Booking table)

MenuId (FOREIGN KEY to Menu table)

Quantity

Chapter:-3

User Story-:

Functional Description:(Chapter:-3.2)

Login-:

- 1.Username
- 2.Password

User Story of User:(Chapter:-3.2)

Customer-:

- 1.Username
- 2.Password
- 3.Booking

Staff -:

- 1.Username
- 2.Password
- 3.View Booking

User Story of Admin:(Chapter:-3.3)

Admin-:

- 1.Username
- 2.Password
- 3.View Booking
- 4.View Customer
- 5.View Staff





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Chapter:- 4

SQL:-

Database Name -: LoginDB

1. Table Name – admin

```
CREATE TABLE [dbo].[admin] (  
    [aid] INT IDENTITY (1, 1) NOT NULL,  
    [aemail] VARCHAR (MAX) NULL,  
    [ausername] VARCHAR (MAX) NULL,  
    [apassword] VARCHAR (MAX) NULL,  
    [date_created] DATE NULL,  
    PRIMARY KEY CLUSTERED ([aid] ASC)  
);
```

2. Table Name – BookingTbl

```
CREATE TABLE [dbo].[BookingTbl] (  
    [Bid] INT IDENTITY (100, 1) NOT NULL,  
    [BDate] DATE NOT NULL,  
    [BTime] VARCHAR (10) NOT NULL,  
    [CustName] NCHAR (50) NOT NULL,  
    [Person] INT NOT NULL,  
    [Dishes] NCHAR (100) NOT NULL,  
    [Drinks] NCHAR (100) NOT NULL,  
    [CostFood] INT NOT NULL,  
    [OtherCharges] INT NOT NULL,  
    [GrdTotal] INT NOT NULL,  
    [Advance] INT NOT NULL,  
    [Balance] INT NOT NULL,  
    PRIMARY KEY CLUSTERED ([Bid] ASC)  
);
```

3. Table Name – CustomerLogin

```
CREATE TABLE [dbo].[CustomerLogin] (  
    [id] INT IDENTITY (1, 1) NOT NULL,  
    [email] VARCHAR (MAX) NULL,  
    [Custusername] VARCHAR (MAX) NULL,  
    [Custpassword] VARCHAR (MAX) NULL,  
    [date_created] DATE NULL,  
    PRIMARY KEY CLUSTERED ([id] ASC)  
);
```



4. Table Name – CustomerTbl

```
CREATE TABLE [dbo].[CustomerTbl] (  
    [CustId] INT IDENTITY (500, 1) NOT NULL,  
    [CustName] VARCHAR (50) NOT NULL,  
    [CustAdd] VARCHAR (50) NOT NULL,  
    [CustPhone] VARCHAR (50) NOT NULL,  
    PRIMARY KEY CLUSTERED ([CustId] ASC)  
);
```

5. Table Name – staff

```
CREATE TABLE [dbo].[staff] (  
    [sid] INT IDENTITY (1, 1) NOT NULL,  
    [semail] VARCHAR (MAX) NULL,  
    [susername] VARCHAR (MAX) NULL,  
    [spassword] VARCHAR (MAX) NULL,  
    [date_created] DATE NULL,  
    PRIMARY KEY CLUSTERED ([sid] ASC)  
);
```

6. Table Name – StaffTbl

```
CREATE TABLE [dbo].[StaffTbl] (  
    [StaffId] INT IDENTITY (1, 1) NOT NULL,  
    [StaffName] VARCHAR (50) NOT NULL,  
    [StaffPhone] VARCHAR (50) NOT NULL,  
    [StaffPassword] VARCHAR (50) NOT NULL,  
    [StaffAddress] VARCHAR (50) NOT NULL,  
    PRIMARY KEY CLUSTERED ([StaffId] ASC)  
);
```

7. Table Name – ViewBookingTbl

```
CREATE TABLE [dbo].[ViewBookingTbl] (  
    [BookingId] INT IDENTITY (1, 1) NOT NULL,  
    [CustId] INT NOT NULL,  
    [WaterPrice] DECIMAL (10, 2) NULL,  
    [WaterQty] DECIMAL (10, 2) NULL,  
    [CokePrice] DECIMAL (10, 2) NULL,  
    [CokeQty] DECIMAL (10, 2) NULL,  
    [CocktailPrice] DECIMAL (10, 2) NULL,  
    [CocktailQty] DECIMAL (10, 2) NULL,  
    [MuttonPrice] DECIMAL (10, 2) NULL,
```



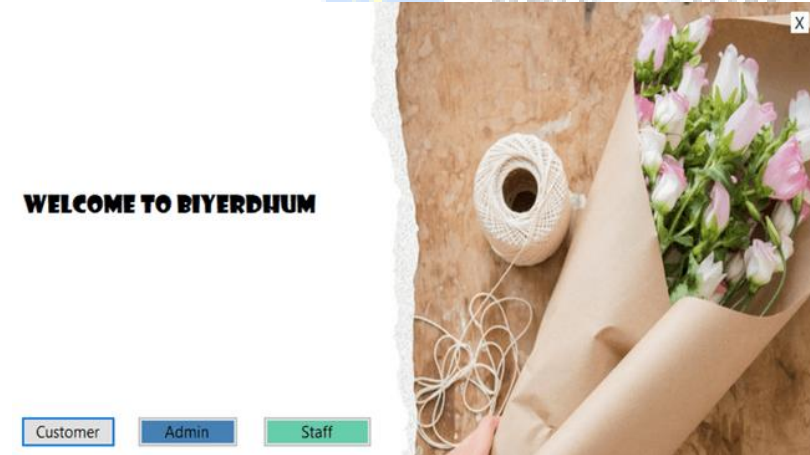
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```
[MuttonQty] DECIMAL (10, 2) NULL,  
[ChickenPrice] DECIMAL (10, 2) NULL,  
[ChickenQty] DECIMAL (10, 2) NULL,  
[BeefPrice] DECIMAL (10, 2) NULL,  
[BeefQty] DECIMAL (10, 2) NULL,  
[TotalCost] DECIMAL (10, 2) NULL,  
[Person] INT NULL,  
PRIMARY KEY CLUSTERED ([BookingId] ASC),  
FOREIGN KEY ([CustId]) REFERENCES [dbo].[CustomerTbl] ([CustId])  
);
```

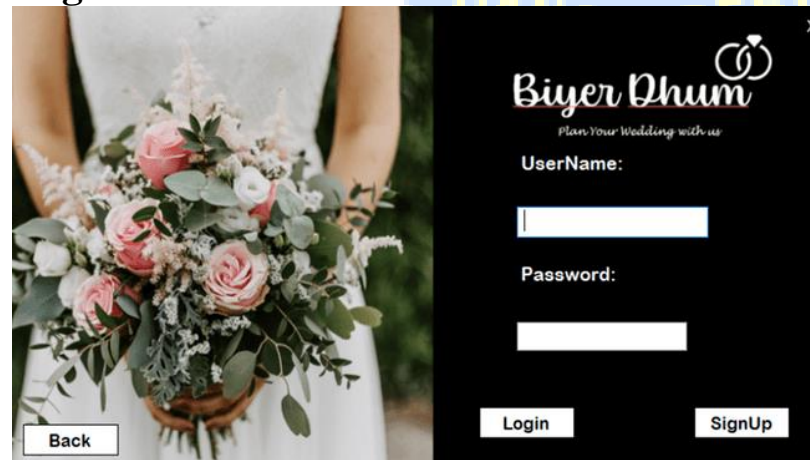
Chapter-:5

Form Images

Welcome Form:




Login Form:





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SignUP Form:



Register Account

Email:

UserName:

Password:

Booking Form:

Date:

Time:

Persons:


CustomerId:

Drinks	Price	Quantity
<input type="checkbox"/> Water	15	<input type="text" value="0"/>
<input type="checkbox"/> Coke	25	<input type="text" value="0"/>
<input type="checkbox"/> Cocktail	50	<input type="text" value="0"/>

DrinkCost

Biriyani	Price	Quantity
<input type="checkbox"/> Mutton	250	<input type="text" value="0"/>
<input type="checkbox"/> Chicken	220	<input type="text" value="0"/>
<input type="checkbox"/> Beef	280	<input type="text" value="0"/>

BiriyaniCost



Payments

Grid Total:

Payment Form:

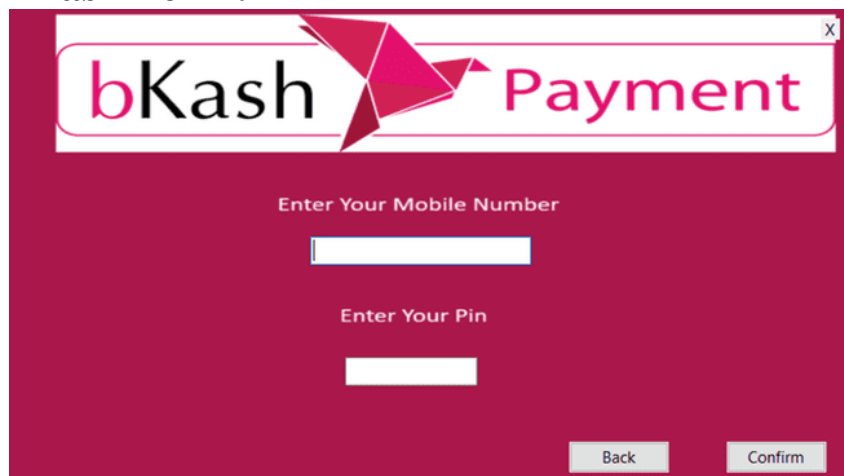
Confirm Your Payment

☐☐



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Bkash Form:



The Bkash Payment form is a maroon-colored window with a title bar. It features the 'bKash' logo and the word 'Payment' in a stylized font. Below the header, there are two input fields: 'Enter Your Mobile Number' and 'Enter Your Pin'. At the bottom right, there are two buttons: 'Back' and 'Confirm'.

Nagad Form:



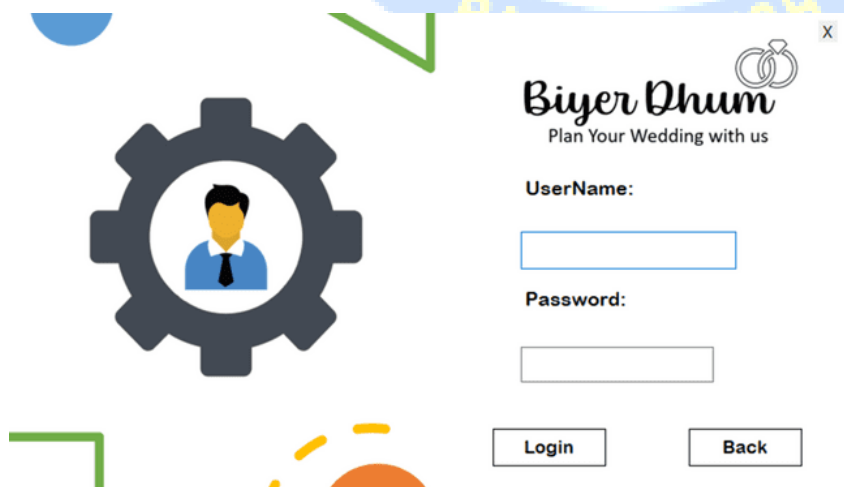
Enter Your Mobile Number

Enter Your Pin

Back

Confirm

Admin Login Form:



The Admin Login Form is a white window with a title bar. It features a large gear icon with a person inside, representing an administrator. To the right of the icon, the text 'Biyer Dhum' is displayed in a stylized font, followed by the tagline 'Plan Your Wedding with us'. Below this, there are two input fields: 'UserName:' and 'Password:'. At the bottom right, there are two buttons: 'Login' and 'Back'.



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Admin Pannel Form:

View Booking

View Customer

View Staff

Back



Admin View Orders Form:

View Orders

Coke Quantity Cocktail Quantity Water Quantity Chicken Quantity Mutton Quantity Beef Quantity Total Cost

Delete Order Edit Order Reset

BookingId	CustId	WaterPrice	WaterQty	CokePrice	CokeQty	CocktailPrice
2	501	15.00	100.00	25.00	70.00	50.00
4	501	15.00	22.00	25.00	242.00	50.00
6	506	15.00	45.00	25.00	54.00	50.00
*						

Back

Customer Form:

Customer

Customer Name: Customer Address: Customer Phone:

Add Customer Delete Customer Edit Customer Reset

CustId	CustName	CustAdd	CustPhone
501	Mahdi	Dhaka	123
506	Akib	Gram	123
507	Shuvo	Dhaka	1234
508	Tamim	Bashundhara	123
*			

Back



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Staff Form:

Staff

Staff Name:

Staff Password:

Staff Address

Staff Phone Number:

Add Staff

Edit Staff


Delete Staff

Reset

	StaffId	StaffName	StaffPhone	StaffPassword	StaffAddress
▶	1	321	321	321	321
	2	NOOR	123	123	123
*					

Back

Staff Login Form:



Biyer Dhum

UserName:

Password:

Login

Back

Staff View Order Form:

View Orders

Coke Quantity

Cocktail Quantity

Water Quantity

Chicken Quantity

Mutton Quantity

Beef Quantity

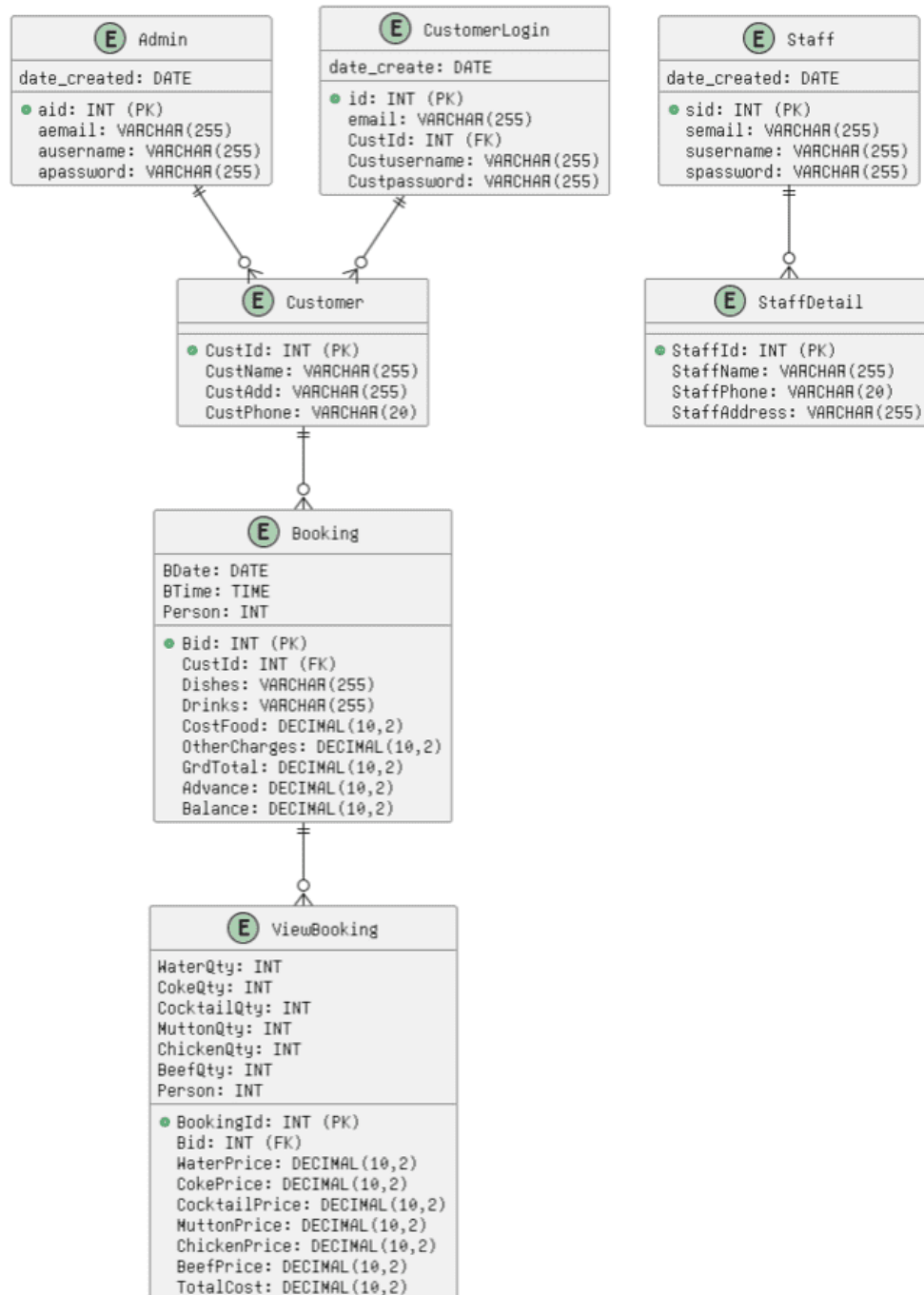
Total Cost

Reset

Back

Chapter-:6

Schema Diagram-:





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Chapter-:7

Conclusion:

BiyeDhum is a comprehensive wedding planning solution that offers a user-centric interface, customizable packages, and a secure payment gateway. It guides couples through guest counts, beverage selections, and culinary preferences, and allows administrators to manage orders and supervise staff. BiyeDhum's intuitive platform combines the aspirations of couples, the organizational skills of planners, and the expertise of vendors, making it a companion for couples.

