

Online Payment Platform

1. Users Table (Registration & Login)

Column Name	Data Type	Constraints	Description
UserID	INT (AUTO_INCREMENT)	PRIMARY KEY	Unique user identifier.
Username	VARCHAR(50)	UNIQUE, NOT NULL	User's unique name.
Email	VARCHAR(100)	UNIQUE, NOT NULL	User's email address.
Password	VARCHAR(255)	NOT NULL	Hashed password for security.
PhoneNumber	VARCHAR(15)	UNIQUE, NOT NULL	User's contact number.
Role	ENUM('User', 'Admin')	NOT NULL	Defines access level.
CreatedAt	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP	Account creation date.
FullName	VARCHAR(100)	NOT NULL	User's full name.
Address	TEXT	NULL	User's address.
DOB	DATE	NULL	Date of birth.
ProfilePic	VARCHAR(255)	NULL	Profile picture URL.

2. Login Attempts Table

Column Name	Data Type	Constraints	Description
LoginID	INT (AUTO INCREMENT)	PRIMARY KEY	Unique login ID.
UserID	INT	FOREIGN KEY (Users) NOT NULL	References Users table.
LoginTime	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP	Timestamp of login attempt.
Status	ENUM('Success', 'Failed')	NOT NULL	Login status.
LoginID	INT (AUTO INCREMENT)	PRIMARY KEY	Unique login ID.
UserID	INT	FOREIGN KEY (Users) NOT NULL	References Users table.

3. Accounts Table (Add/Remove Bank Accounts)

Column Name	Data Type	Constraints	Description
AccountID	INT (AUTO INCREMENT)	PRIMARY KEY	Unique account ID.
UserID	INT	FOREIGN KEY (Users) NOT NULL	References Users table.
BankName	VARCHAR(100)	NOT NULL	Name of the bank.
AccountNumber	VARCHAR(20)	UNIQUE, NOT NULL	User's bank account number.
IFSC_Code	VARCHAR(11)	NOT NULL	Bank IFSC code.
Status	ENUM('Active', 'Inactive')	NOT NULL	Account status.

4. Payments Table , TransactionHistory & BankBalance

Column Name	Data Type	Constraints	Description
PaymentID	INT (AUTO INCREMENT)	PRIMARY KEY	Unique payment ID.
UserID	INT	FOREIGN KEY (Users), NOT NULL	References Users table.
AccountID	INT	FOREIGN KEY (Accounts), NOT NULL	References Accounts table.
RecipientID	INT	FOREIGN KEY (Users)	References recipient user in case of Payment.
Type	ENUM('Credit', 'Debit', 'Payment')	NOT NULL	Transaction type (Credit, Debit, or Payment).
Amount	DECIMAL(10,2)	CHECK (Amount > 0)	Transaction amount.
Balance	DECIMAL(10,2)	CHECK (Balance >= 0)	Updated bank balance after the transaction.
TransactionDate	TIMESTAMP	DEFAULT CURRENT TIMESTAMP	Date of transaction.
Status	ENUM('Pending', 'Completed', 'Failed')	NOT NULL	Payment status (if applicable).

5. Bonus Table

Column Name	Data Type	Constraints	Description
BonusID	INT (AUTO_INCREMENT)	PRIMARY KEY	Unique bonus ID.
UserID	INT	FOREIGN KEY (Users) NOT NULL	References Users table.
PaymentID			
BonusAmount	DECIMAL(10,2)	CHECK (BonusAmount > 0)	Bonus amount.
BonusDate	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP	Date of bonus allocation.
BonusType	ENUM('Referral', 'Cashback', 'Promo')	NOT NULL	Type of bonus.

6. Security Table

Column Name	Data Type	Constraints	Description
SecurityID	INT (AUTO_INCREMENT)	PRIMARY KEY	Unique security setting ID.
UserID	INT	FOREIGN KEY (Users) NOT NULL	References Users table.
TwoFactorAuth	BOOLEAN	DEFAULT FALSE	2FA enabled or not.

7. Feedback & Customer Support Table

Column Name	Data Type	Constraints	Description
FeedbackID	INT (AUTO_INCREMENT)	PRIMARY KEY	Unique feedback ID.
UserID	INT	FOREIGN KEY (Users) NOT NULL	References Users table.
Message	TEXT	NOT NULL	User's feedback or complaint.
Response	TEXT	NULL	Admin's response.
Status	ENUM('Open', 'Closed')	DEFAULT 'Open'	Ticket status.
CreatedAt	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP	Date of submission.

8. Admin Table

Column Name	Data Type	Constraints	Description
AdminID	INT (AUTO INCREMENT)	PRIMARY KEY	Unique admin ID.
Username	VARCHAR(50)	UNIQUE, NOT NULL	Admin's username.
Email	VARCHAR(100)	UNIQUE, NOT NULL	Admin's email.
Password	VARCHAR(255)	NOT NULL	Encrypted password.
Role	ENUM('SuperAdmin', 'Support')	NOT NULL	Admin role.