

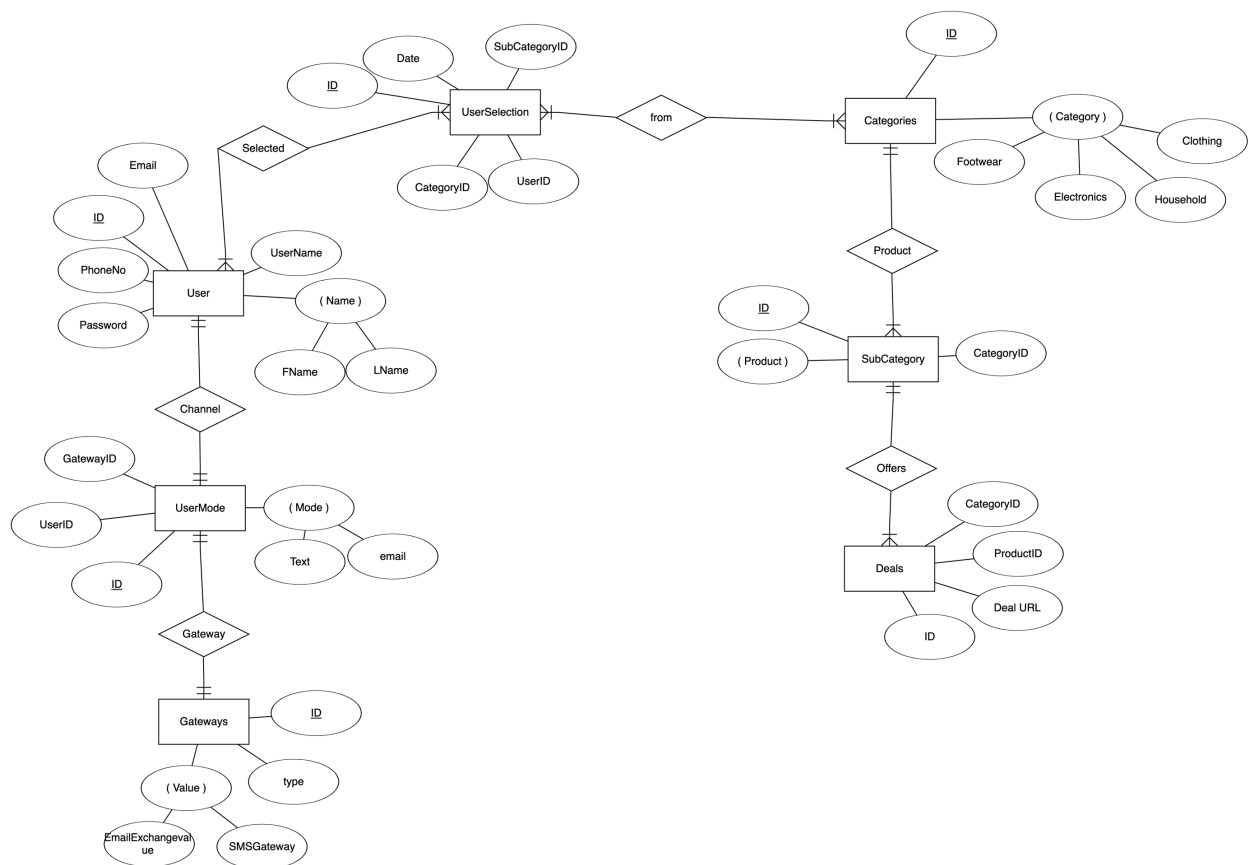
Deals Kindle

Anusha Singamaneni

Abstract:

Deals kindle is an integrated database application that offers users to receive deals as per their desires through Text/Email/Both channels based on their profiles enrolled from front end. Once user subscribe to the service then portal sends Text/Email with deals as per their interests.

ERD:



Data Source:

Fictional data is being used as of now.

SQL queries and sample results:

```
create schema Dealskindle;
```

```
use Dealskindle;
```

```
CREATE TABLE Users
(
  UserID INT NOT NULL,
  FirstName VARCHAR (25) ,
  LastName VARCHAR (25) ,
  UserName VARCHAR (45) NOT NULL,
  password VARCHAR (45) ,
  PhoneNo VARCHAR (10) ,
  Email VARCHAR(55) ,
  PRIMARY KEY (Id));
```

```
Alter Table Users
```

```
ADD COLUMN StreeName VARCHAR (155) NULL AFTER Password,
ADD COLUMN City VARCHAR (25) NULL AFTER StreeName,
ADD COLUMN State VARCHAR (25) NULL AFTER City,
ADD COLUMN ZipCode VARCHAR (6) NULL AFTER State;
```



```
#Index Creation
```

```
CREATE UNIQUE INDEX UserName ON Users (UserName);
```

```
# Show Index
```

```
Show Index from Users;
```

Result:

Result Grid  Filter Rows: <input type="text" value="Q Search"/> Export: 												
Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_com
► Users	0	PRIMARY	1	UserID	A	5	NULL	NULL		BTREE		
Users	0	UserName	1	UserName	A	5	NULL	NULL		BTREE		

```
INSERT INTO Dealskindle.Users VALUES
```

```
(1, 'Anusha', 'Singamaneni', 'anukrish', 'Rithwik10', '28 Oaklawn  
Ave','Cranston','RI','02920','40129805050', 'anushasa10@gmail.com'),
```

```
(2, 'Krishna', 'Katta', 'kvkc1018', 'Password', '28 Oaklawn Ave','Cranston','RI','02920',
'4012985051', 'kvkc1018@gmail.com'),
(3, 'Adam', 'J', 'adj', 'Pass1234', '307 Greenwich Ave','Warwick','RI','02886','4012985052',
'adj@gmail.com'),
(4, 'Jeff', 'Broke', 'jeffb', 'Pass123','309 Greenwich Ave','Warwick','RI','02920', '4012985053',
'jb@icloud.com'),
(5, 'Dianne', 'Pisaturo', 'dipis', 'Welcome123','30 Oaklawn Ave','Cranston','RI','02920',
'4012985054', 'dp@yahoo.co.in'),
(6, 'Anusha', 'katta', 'anukrish', 'Rwth10', '20 oaklawn', 'Cranston', 'RI','02920','01233445576',
'kvkc1018@gmail.com');
```

```
SELECT * FROM Dealskindle.Users;
```

UserID	FirstName	LastName	UserName	Password	StreeName	City	State	ZipCode	PhoneNo	Email
1	Anusha	Singamaneni	anukrish	Rithwik10	28 Oaklawn Ave	Cranston	RI	02920	40129805050	anushasa10@gmail.com
2	Krishna	Katta	kvkc1018	Password	28 Oaklawn Ave	Cranston	RI	02920	4012985051	kvkc1018@gmail.com
3	Adam	J	adj	Pass1234	307 Greenwich Ave	Warwick	RI	02886	4012985052	adj@gmail.com
4	Jeff	Broke	jeffb	Pass123	309 Greenwich Ave	Warwick	RI	02886	4012985053	jb@icloud.com
5	Dianne	Pisaturo	dipis	Welcome123	30 Oaklawn Ave	Cranston	RI	02920	4012985054	dp@yahoo.co.in
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

```
CREATE TABLE UserMode
(
Id INT NOT NULL,
UserID INT NULL,
GatewayID INT NULL,
Mode VARCHAR (45) NULL,
PRIMARY KEY (Id));
```

```
CREATE TABLE Categories
(
Id INT NOT NULL AUTO_INCREMENT,
Category VARCHAR (55),
PRIMARY KEY (Id));
```

```
insert into Dealskindle.Categories values(1,'clothing'), (2,'Electronics'), (3,'Toys'),(4,'Home
Appliances'),(5,'Books'),(6,'Baby products'),(7,'Jewelry'),(8,'Foot wear'),(9,'Cosmetics');
```

```
select * from Dealskindle.Categories;
```

Id	Category
1	clothing
2	Electronics
3	Toys
4	Home Appliances
5	Books
6	Baby products
7	Jewelry
8	Foot wear
9	Cosmetics
NULL	NULL

#truncate Categories

```
CREATE TABLE SubCategory
(
  Id INT NOT NULL,
  Category_ID INT NOT NULL,
  Product VARCHAR(55),
  PRIMARY KEY (Id));
```

```
INSERT INTO Dealskindle.SubCategory VALUES
```

```
(1, 1, 'Men T Shirts'),
(2, 1, 'Men Shirts'),
(3, 1, 'Men Shorts'),
(4, 1, 'Men Pants'),
(5, 1, 'Women Tops'),
(6, 1, 'Boy T Shirt'),
(7, 2, 'TV'),
(8, 2, 'Laptop'),
(9, 2, 'Tablet/Ipad'),
(10, 2, 'Head Phones'),
(11, 7, 'Bracelet'),
(12, 7, 'Ring'),
(13, 7, 'Chain'),
(14, 3, 'Legos'),
(15, 3, 'Dolls'),
(16, 4, 'Microwave'),
(17, 4, 'Dish Washer'),
(18, 5, 'Action & Adventure'),
(19, 5, 'Comic'),
(20, 5, 'Horror'),
(21, 6, 'Nursing'),
(22, 6, 'Bedding'),
(23, 8, 'Men Boots'),
(24, 8, 'Women Shoes'),
```

```
(25, 8, 'Women Boots'),
(26, 9, 'Blush'),
(27, 9, 'LipSticks');
#truncate SubCategory
```

```
select * from Dealskindle.SubCategory;
```

	Id	Category_ID	Product	
►	1	1	Men T Shirts	
	2	1	Men Shirts	
	3	1	Men Shorts	
	4	1	Men Pants	
	5	1	Women Tops	
	6	1	Boy T Shirt	
	7	2	TV	
	8	2	Laptop	
	9	2	Tablet/Ipad	
	10	2	Head Phones	
	11	7	Bracelet	
	12	7	Ring	
	13	7	Chain	
	14	3	Legos	
	15	3	Dolls	
	16	4	Microwave	
	17	4	Dish Washer	
	18	5	Action & Adventure	
	19	5	Comic	
	20	5	Horror	
	21	6	Nursing	
	22	6	Bedding	
	23	8	Men Boots	
	24	8	Women Shoes	
	25	8	Women Boots	
	26	9	Blush	
	27	9	LipSticks	
	NULL	NULL	NULL	

```
CREATE TABLE UserSelection
(
  Id INT NOT NULL,
```

```

UserID INT NOT NULL,
Category_ID INT NOT NULL,
Sub_Category_ID INT NOT NULL,
Date_Enrolled DATETIME ,
PRIMARY KEY (Id));

```

```

INSERT INTO Dealskindle.UserSelection (`Id`, `UserID`, `Category_ID`, `Sub_Category_ID`,
`Date_Enrolled`) VALUES
('1', '1', '1', '5', '2021-11-01 00:00:00'),
('2', '1', '8', '24', '2021-11-02 00:00:00'),
('3', '1', '8', '25', '2021-11-02 00:00:00'),
('4', '1', '9', '27', '2021-11-02 00:00:00'),
('5', '2', '2', '8', '2021-11-05 00:00:00'),
('6', '2', '2', '9', '2021-11-05 00:00:00'),
('2', '2', '10', '2021-11-05 00:00:00');

```

```
select * from Dealskindle.UserSelection;
```

	Id	UserID	Category_ID	Sub_Category_ID	Date_Enrolled	
▶	1	1	1	5	2021-11-01 00:00:00	
	2	1	8	24	2021-11-02 00:00:00	
	3	1	8	25	2021-11-02 00:00:00	
	4	1	9	27	2021-11-02 00:00:00	
	5	2	2	8	2021-11-05 00:00:00	
	6	2	2	9	2021-11-05 00:00:00	
	7	2	2	10	2021-11-05 00:00:00	
	NULL	NULL	NULL	NULL	NULL	

```

CREATE TABLE Offers
(
Id INT NOT NULL,
Category_ID INT NOT NULL,
Sub_Category_ID INT NOT NULL,
Description VARCHAR (255),
DealURL VARCHAR (155),
Status VARCHAR (45),
DateAdded DATETIME,
PRIMARY KEY (Id));

```

```

INSERT INTO Dealskindle.Offers VALUES
('1', '1', '1','ABCD provides Mens Shirt with discount of 60%', 'www.abcd.com\tshirts', 'Active',
'2021-11-02 00:00:00'),

```

```
(
    '2', '1', '1', NULL, 'www.123.com\tshirts', 'Active', '2021-11-02 00:00:00'),
    ('3', '1', '5', NULL, 'www.123.com\womenwear', 'Active', '2021-11-02 00:00:00'),
    ('4', '2', '9', 'JKH provides 40% discount on Ipads', 'www.JKH.com\tablet', 'Active', '2021-11-08 00.00.00'),
    ('5', '5', '18', 'QQQ provides 25% discount on books', 'www.books.com', 'Active', '2021-11-08 00.00.00');
#truncate Offers;
```

```
select * from Dealskindle.Offers;
```

	Id	Category_ID	Sub_Category_ID	Description	DealURL	Status	DateAdded
▶	1	1	1	ABCD provides Mens Shirt with discount of 60%	www.abcd.com shirts	Active	2021-11-02 00:00:00
	2	1	1	NULL	www.123.com shirts	Active	2021-11-02 00:00:00
	3	1	5	NULL	www.123.comwomenwear	Active	2021-11-02 00:00:00
	4	2	9	JKH provides 40% discount on Ipads	www.JKH.com ablet	Active	2021-11-08 00:00:00
	5	5	18	QQQ provides 25% discount on books	www.books.com	Active	2021-11-08 00:00:00
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

```
CREATE TABLE Gateway
(
    Id INT NOT NULL,
    Type VARCHAR (25),
    Value VARCHAR (155),
    PRIMARY KEY (Id));
```

```
INSERT INTO Dealskindle.Gateway (`Id`, `Type`, `Value`) VALUES
('1', 'SMS', 'https://bulksms.com'),
('2', 'Email', 'smtp.dealskindle.com');
```

```
select * from Dealskindle.Gateway;
```

	Id	Type	Value
▶	1	SMS	https://bulksms.com
	2	Email	smtp.dealskindle.com
	NULL	NULL	NULL

```
CREATE TABLE Dealskindle.DealsProcessed (
    Id INT NOT NULL AUTO_INCREMENT,
    UserID INT NULL,
    OfferID INT NULL,
    Mode VARCHAR (45) NULL,
    Date DATETIME NULL,
    PRIMARY KEY (Id));
```

```
INSERT INTO Dealskindle.DealsProcessed VALUES
('1', '1', '1', 'SMS', '2021-11-01 00:00:00'),
('2', '1', '2', 'SMS', '2021-11-01 00:00:00'),
('3', '1', '3', 'SMS', '2021-11-03 00:00:00'),
('4', '2', '2', 'Email', '2021-11-01 00:00:00');
```

```
select * from Dealskindle.DealsProcessed;
```

	Id	UserID	OfferID	Mode	Date
▶	1	1	1	SMS	2021-11-01 00:00:00
	2	1	2	SMS	2021-11-01 00:00:00
	3	1	3	SMS	2021-11-03 00:00:00
	4	2	2	Email	2021-11-01 00:00:00
	NULL	NULL	NULL	NULL	NULL

Find all products for category named “Electronics”.

```
select sb.Product
```

```
From Categories as c inner join SubCategory as sb On c.Id = sb.Category_ID
Where c.Category = 'Electronics' ;
```

Product
▶ TV
Laptop
Tablet/Ipad
Head Phones

#Find on which dates the deals are send to users

```
select FirstName, LastName, Date from Users inner join DealsProcessed using (UserID);
```

FirstName	LastName	Date
▶ Anusha	Singamaneni	2021-11-01 00:00:00
Anusha	Singamaneni	2021-11-01 00:00:00
Anusha	Singamaneni	2021-11-03 00:00:00
Krishna	Katta	2021-11-01 00:00:00

Create View

```
CREATE VIEW DealsSent as  
select FirstName, LastName, Date from Users inner join DealsProcessed using (UserID);
```



#Calling View

```
Select * from DealsSent;
```

	FirstName	LastName	Date	
▶	Anusha	Singamaneni	2021-11-01 00:00:00	
	Anusha	Singamaneni	2021-11-01 00:00:00	
	Anusha	Singamaneni	2021-11-03 00:00:00	
	Krishna	Katta	2021-11-01 00:00:00	

Find Count of offers available for each category

```
select c.Category, Count(o.Id) as OffersCount from Offers o, Categories c where o.Category_ID  
= c.Id group by c.Category;
```

	Category	OffersCount	
▶	clothing	3	
	Electronics	1	
	Books	1	

#Number Of deals sent to user "Anusha"

Select Description, DealURL

From Offers

Where Id in (select OfferId from DealsProcessed where UserID = (select UserID from Users where FirstName = 'Anusha'));

Description	DealURL	
▶ ABCD provides Mens Shirt with discount of 60%	www.abcd.com shirts	
NULL	www.123.com shirts	
NULL	www.123.comwomenwear	

Description of the Technology used for your interface

- Application is developed on java platform. JSP is used to develop User Interface webpages and all the business methods are written using core java which executes database queries by using persistent database sessions.
- Hibernate is used for db. connection between the application and database which holds database drivers, connections, and resources.
- A web container or web server is needed to run this application, so used Apache Tomcat
- MySQL database has been used to store the data.
- We used ant to build the source code
- Used html and css for styling
- Used java script for data validations and form submission
- This application was hosted in AWS cloud. Have used various services like EC2, route 58, elastic IP. EC2 instance is used to build windows 2019 server
- Route 58 used to buy the domain name (DNS)
- Elastic Ip is used to create the public Ip and assign to the server

Software versions for server

- Apache Tomcat 8.5
- Java 1.8.0_202
- MySQL workbench 8.0.27
- Ant 1.7.1
- Hibernate

A link to accessible website

- www.dealskindle.com