

# Database Management System

# MINI PROJECT

# TEAM MEMBERS

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# Acknowledgement

We would like to express our special thanks of gratitude to our DBMS teacher 'Ms. Namita Gupta' for her guidance and support in completing our project.

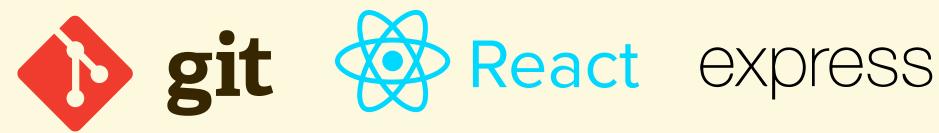


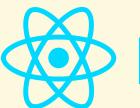






### TECH STACK















Bootstrap





FrontEnd: HTML, CSS, JS, ReactJS BackEnd: NodeJS, ExpressJS Database: MongoDB, Mongoose **Testing & Documentation:** GitHub, Postman, Visual Studio

# Idea behind working of application:

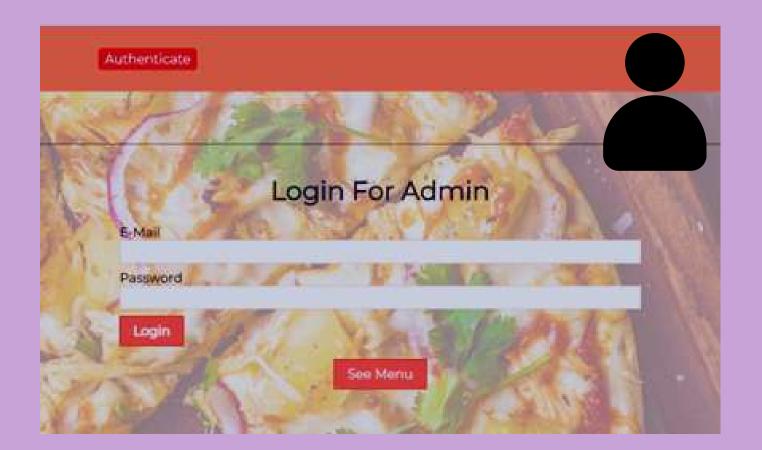
Users can visit the website and they have the options of registering and logging into the website. They can also check the menu of items even before logging in.



Admins can basically add, delete and edit products with their images as well.

# ADMIN VIEW: (LOGIN PAGE)

This feature is for admins only to update the Pizza's menu and add new items to the list. Here, admin will be provided a specific email id and a password that they can use. This info. will be stored in database every time they logged in.





## Adding a product feature:



Title	
Price	
mage URL	
Description	

#### Add a New Product

Title

Products

Tandoori Paneer

Price

18

Image URL

https://api.pizzahut.io/v1/content/en-in/in-1/images/pizza/tando

Description

Spiced paneer, Onion, Green Capsicum & Red Paprika in Tandoori Sauce

**Update Product** 

### Added Pizza Items:

#### Authenticate



#### Chicken Golden Delight

\$22

Mmm! Barbeque chicken with a topping of golden corn loaded with extra cheese. Worth its weight in gold!



#### Italian Pizza

\$20

Double Cheese Italian Pizza



#### Tandoori Paneer

\$18

Activate Windows

Spiced paneer, Onion, Green Capsicum & Red Paprika in Tandoori Saucengs to activate

# DBMS Theory & Implementation:

ER Model, when conceptualized into diagrams, gives a good overview of entity-relationship, which is easier to understand. ER diagrams can be mapped to relational schema. We cannot import all the ER constraints into relational model, but an approximate schema can be generated.

There are several processes and algorithms available to convert ER Diagrams into Relational Schema. Some of them are automated and some of them are manual. We may focus here on the mapping diagram contents to relational basics.

### NORMALIZATION:

Database normalization is the process of structuring a database, usually a relational database, in accordance with a series of normal forms in order to reduce data redundancy and improve data integrity.

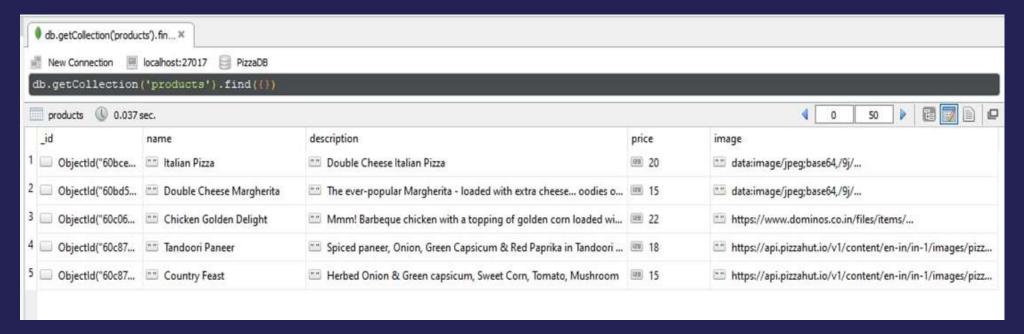
Normalization entails organizing the columns (attributes) and tables (relations) of a database to ensure that their dependencies are properly enforced by database integrity constraints. It is accomplished by applying some formal rules either by a process of synthesis (creating a new database design) or decomposition (improving an existing database design).

### Information stored in Database:

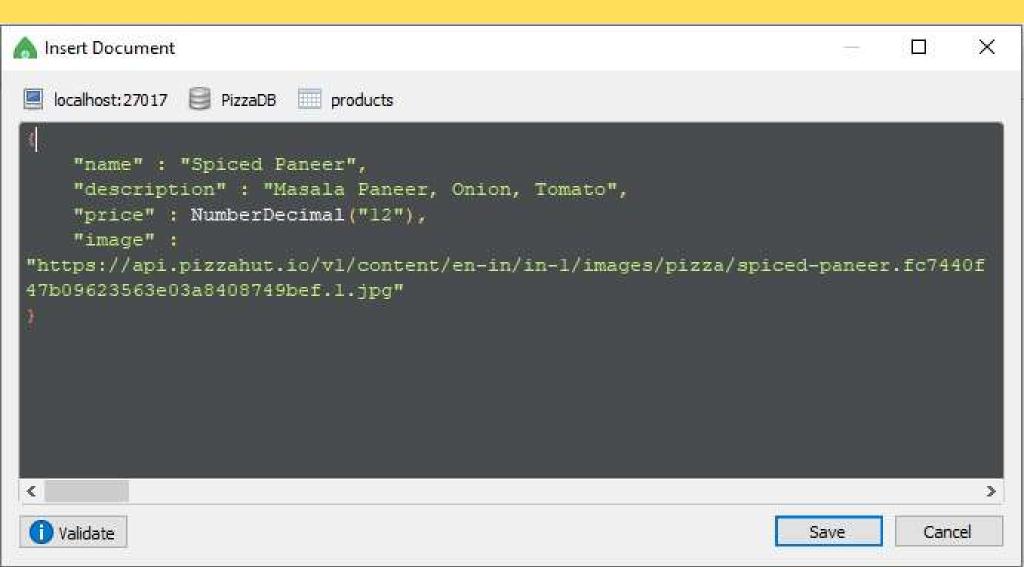




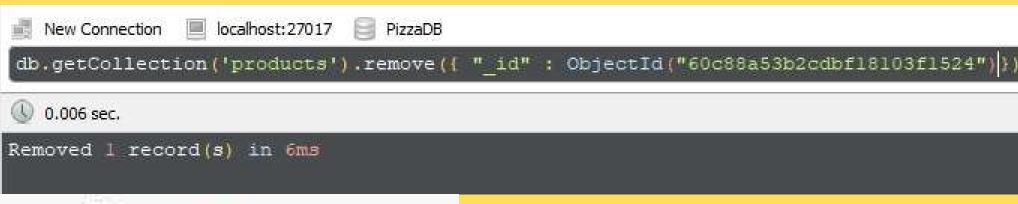


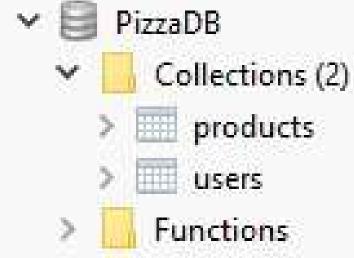


# INSERT IN DATABASE:



# DELETE IN DATABASE:





Users



# **UPDATE IN DATABASE:**

```
* db.getCollection('products').u...×
                            # db.getCollection('products'), find... ×
  New Connection
               localhost:27017 PizzaDB
db.getCollection('products').update(
    // query
        " id" : ObjectId("60c88a53b2cdbf18103f1524")
    F,
        "price" : "12"
    // options
        "multi" : false, // update only one document
        "upsert" : false // insert a new document, if no existing document match the query
```

● 0.085 sec.



# WEBSITE VIDEO DEMO:

https://drive.google.com/file/d/1GZiJTGevtVFBOuBm0w\_X1Is5s9tOIM7F/view

# Thank You