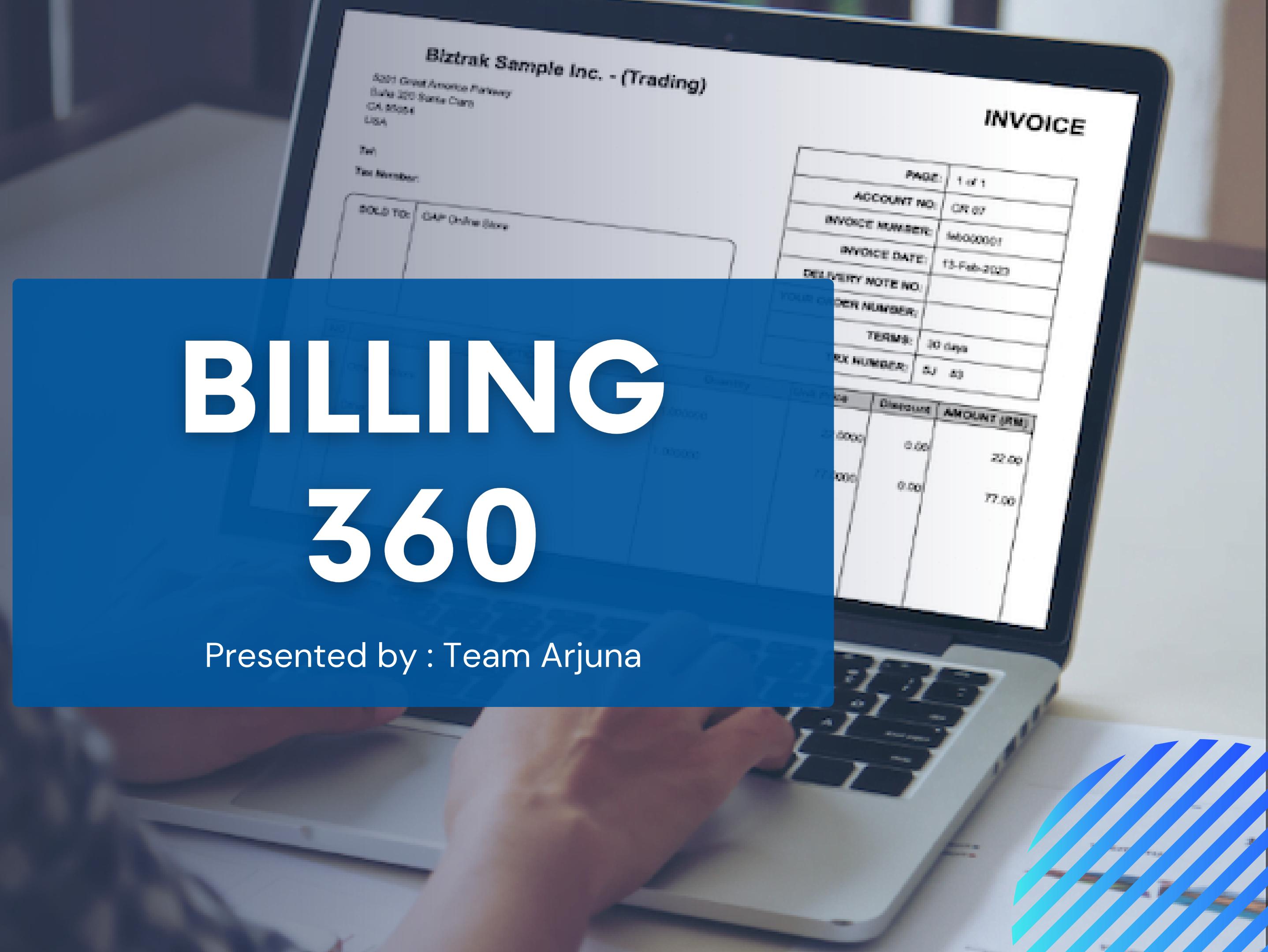




Billing 360

BILLING 360

Presented by : Team Arjuna





NEED FOR THE SOFTWARE

- Seamless invoice generation process
- Efficient inventory management
- Efficient reports for business prosper
- Effortlessly manage the credit log of his customers and debit log of his suppliers.

A photograph of a middle-aged man with dark hair and a mustache, wearing a light blue and white striped long-sleeved shirt. He is smiling and looking towards the camera while sitting at a desk in what appears to be a small convenience store or microenterprise. Behind him are shelves stocked with various products, including boxes of cereal and other packaged goods.

POTENTIAL USERS

MICROENTERPRISES AND RETAILERS



Billing 360



MAJOR REQUIREMENTS

Dashboard :

- Display details of current day's sales and profits. Show details of yesterday's sales.
- Present a graph of sales and profits per day for the last week.

Inventory Management:

- Display current items in the inventory.
- Show quantity, display color-coded expiry, and price for each item.
- Add new items or delete existing items.

Invoice Generation:

- Generate bills for transactions.
- Automatically update the inventory
- Send a pdf of the Invoice on Customer's Email



MAJOR REQUIREMENTS

Pending Transactions :

- View credit and debit details.
- Add new credit/debit or clear existing ones.

Reports:

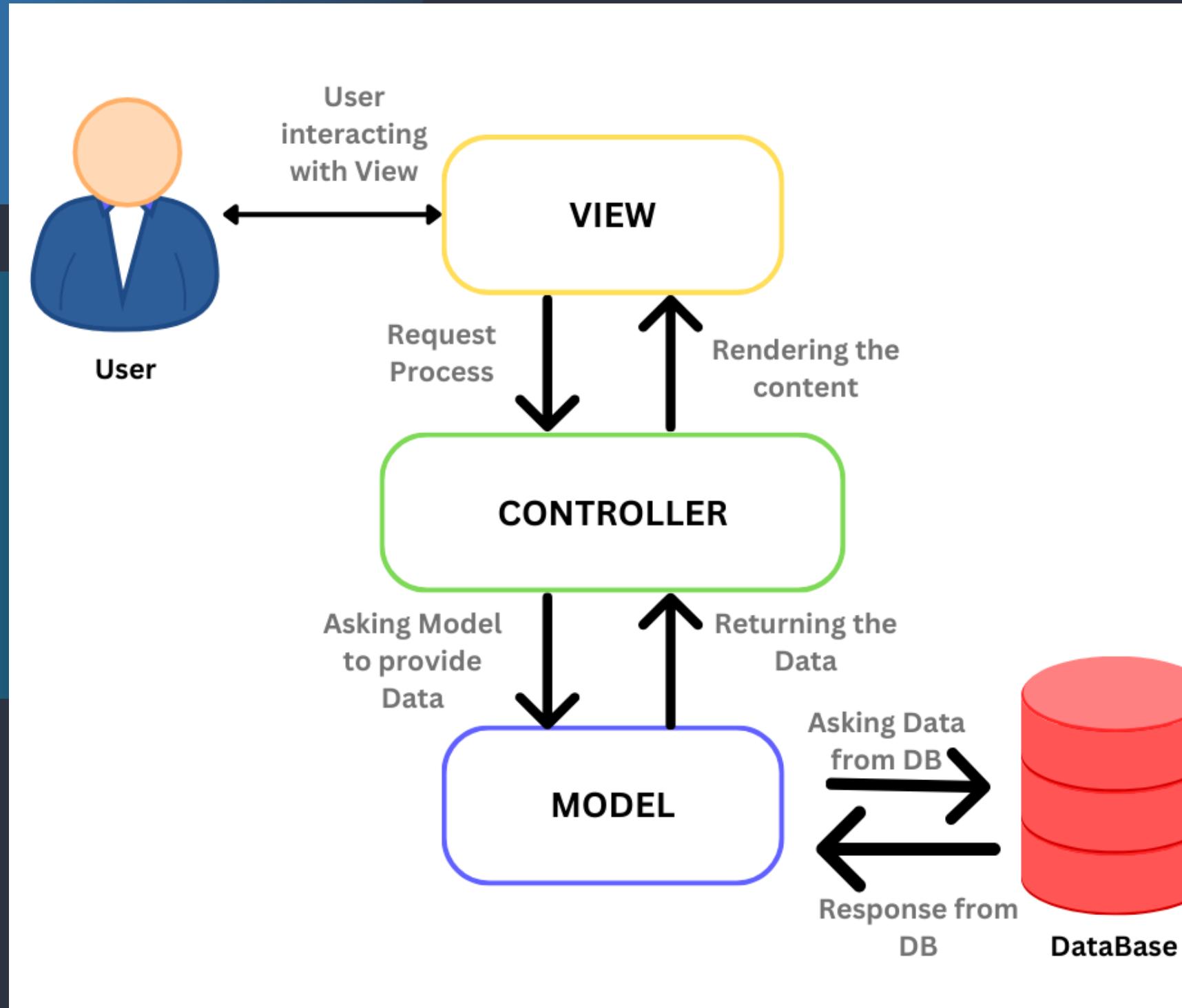
- Generate graphs of sales and profit per day within specified dates.
- Shows top 5 customers by sales.

Contact Us:

- Display contact details of the developers.
- Allow users to submit queries to the developers.



Design



- **Model View Architecture**
Multiples views - same data
- **Object Oriented Design**
Nested classes
Data encapsulation
Concurrency
Polymorphism
- **Page wise views and controllers**
Easy Integration
- **FSMs and sub FSMs**



```
_id: ObjectId('660405ff9b168a520ab2dfa')
```

```
userID : "660025ef8ec47492acd7fd3e"
```

```
invoiceID : 0
```

```
customerName : "Kundan Kumar"
```

```
phoneNo : "1234567890"
```

```
customerEmail : "kundan91700@gmail.com"
```

```
totalAmount : 47.15
```

```
notes : "Thanks for your visit. Come Again!"
```

```
paymentMode : "Paid"
```

```
discount : 50
```

```
itemList : Array (2)
```

```
  ▶ 0: Object
```

```
  ▶ 1: Object
```

```
    itemName : "samosa chat"
```

```
    quantity : 3
```

```
    costPrice : 10
```

```
    rate : 15
```

```
    gst : 10
```

```
    amount : 49.5
```

```
    _id : ObjectId('660405829b168a520ab2df83')
```

```
createdAt : 2024-03-27T17:11:45.735+00:00
```

```
totalCostPrice : 54
```

```
totalSales : 85
```

```
--v : 0
```

MERN Stack

- M - MongoDB (Database)
- E - Expressjs (easy routing of API calls)
- R - Reactjs (Interactive Frontend)
- N - Nodejs (Robust Backend)

MongoDB

- NoSQL, Non-Relational Database System
- Stores data in form of objects (documents)
- Easy to store different types of data
- Allows concurrent access
- MongoDB provides a unique '_id'.
- Fast and Efficient



Future Improvements

- *Connecting with suppliers:*

*Database of suppliers
placing orders for items*

- *Recommendation System:*

*Leverage ML to analyse records.
Recommendations for most profitable items
Discounts for frequent customers*

- *ITR Report generation:*

Generate ITR report based on transaction records.

- *Tutorial:*

Give user a dynamic tutorial on how to use the website





Lessons Learnt

Coordination

Technical Skills

Team Spirit

Plan-driven process



Billing 360

OUR TEAM



Abhishek



Poojal



Venkatesh



Saagar



Dhruv



Kundan



Pragati



Nipun



Ansh



Pallav



Billing 360

Thanks
y'all!



billing360iitk@gmail.com