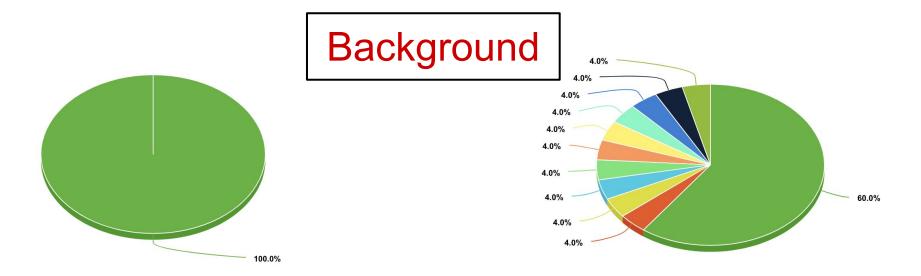
# Stock Brokerage Management System

Homepage URL

Shruti Singh ss13345

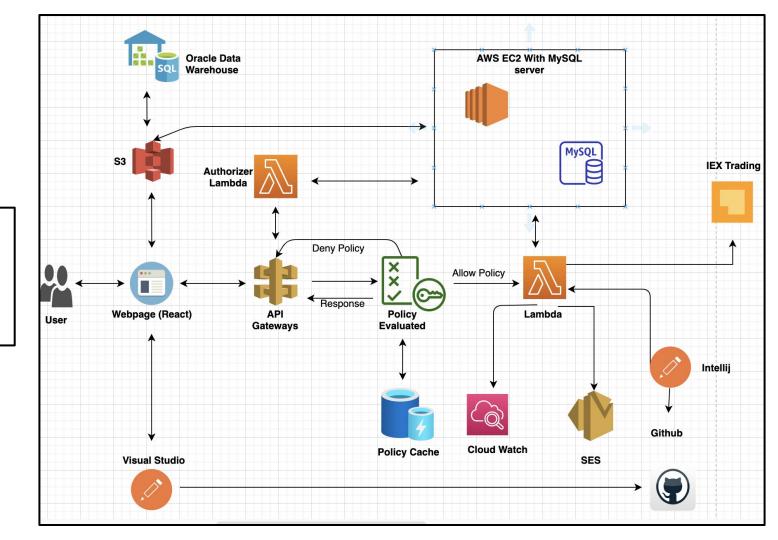
Asif Hasnain mah1042



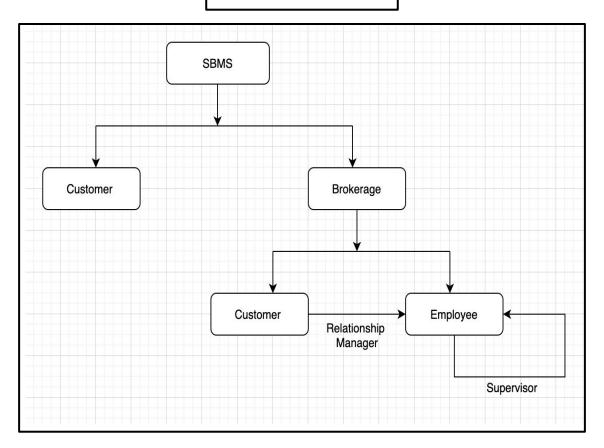




System Design

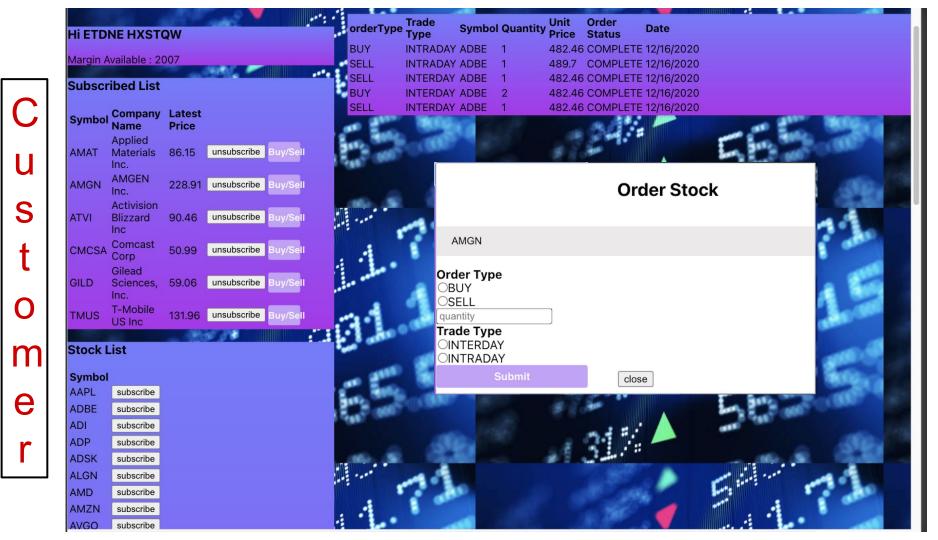


# Hierarchy



0 S e

				Home Dashboard Profile		<u>Profile</u>	Employee Signup		Customer		
								<u>Signup</u> <u>In</u>	<u>voice</u>	Contact	
	200	- V			40	100				•	466
Hi YSR	GE DFOGPD			<b>Employee I</b>	List		_				
	201	<i>B</i>	100								
Subscr	ibed List			Employee Id					Superviser Id		n
		Territoria		41	YSRGE		М	9SUMACJDXA@mailinator.com		ADMIN	
Symbol	Company Name	Latest Price		42	FXUHC		М	50MSUM817N@mailinator.com		MANAGER	
AAPL	Apple, Inc.	126.93	unsubscribe	43	XAJVB	UVTGAH	М	NCH4UMACKJ@mailinator.com		MANAGER	
AAPL	Control Control Control Control	120.93	unsubscribe	44	SWEGR	SNLSFY	М	9EYACMQLE0@mailinator.com		MANAGER	
ALGN	Align Technology, Inc.	529.85	unsubscribe	45	NHXRO	WSVBUV	М	Y94J3J5UKZ@mailinator.com		MANAGER	
	Applied Materials			46	OMUJM	KOMUOJ	М	I9IIRZFTL6@mailinator.com	41	MANAGER	
AMAT	Inc.	86.15	unsubscribe	47	PJCJM	GXVJHK	М	DLJNESGLDT@mailinator.com		MANAGER	
BIDU	Baidu Inc	193.04	unsubscribe	48	EPNUI	JTQZBH	М	JRURX3HS6B@mailinator.com		MANAGER	
	Cisco Systems, Inc.	45.46	unsubscribe	49	LPRPX	UGXUDL	М	YESJ2GUHOO@mailinator.com		MANAGER	
KHC	Kraft Heinz Co	34.77	unsubscribe	50	XRQBN	HZZZXQ	М	NCI79F1LN4@mailinator.com	41	MANAGER	
				51	BQAFY	CSFYBN	M	NLSTGIZ11T@mailinator.com	41	MANAGER	
ROST	Ross Stores, Inc.	117.74	unsubscribe	265	SHRUTI	SINGH	F:	SS111@NYU.EDU	42	CLERK	
Canalal	100			Customer	1.4						
Stock List				Customer	LIST						
Symbol				Customer Id	First Name	Last Name	Gende	r Email id	Relationship	Manager Id	
ADBE	subscribe			100321	ETDNE	HXSTQW	M	QZFWXOCEQ6@mailinator.co	m 42		profile
ADI	subscribe			100322	AGGLN	HUCFQP	М	CTUHJZ22W0@mailinator.com	n 42		profile
ADP	subscribe			100323	BBFUI	IRHLKR	М	F1LM0W72DG@mailinator.com	n 42		profile
ADSK	subscribe			100324	ENDDG	VKMGWN	М	BXG54UL4MI@mailinator.com			profile
AMD	subscribe			100325	JXIXO	DZMKQA	М	DP6IRY8ZXF@mailinator.com	42		profile
AMGN	subscribe			100326	DAUUP	PGJDOJ	М	H9IGJ07QQ9@mailinator.com	42		profile
AMZN	subscribe			100327	HGLJL	FQPBMH	М	9BHAM10Q9V@mailinator.com			profile
ATVI	subscribe			100327	XRPBK	YKIHNR	M	4JYZO9YPDG@mailinator.com			profile
AVGO	subscribe			100329	PYUGV	LTMARG	M	K16GGMHBV5@mailinator.com			profile
BIIB	subscribe			100323	UHCQV	FQPYBL	M	8T2NRJ75TE@mailinator.com			profile
DING	subscribe			100330	C IBHE	ECHEOO	IVI NA	576NET I2EO@mailinator.com			profile



## **FEATURES**

## Customer

**Employee** 

- Create new account.
- Login/Logout.
- Reset password
- Change password.
- View profile details.
- Subscribe/Unsubscribe a stock.
- Credit/Debit money from bank.
- All the features are access driven.
- View order list.
- Buy/Sell a stock
  - Interday
  - Intraday

- Login/Logout.
- Reset password
- View profile
- View list of all employees
- View list of all customers.
- Create customers.
- Imitate a customers.
- All the features are access driven.

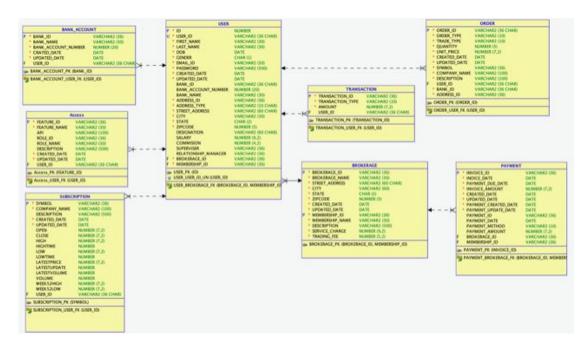
## **Root User**

- Login/Logout.
- Reset password
- View profile
- Create employee.
- Administrative access.

# OLTP

### feature feature id VARCHAR/36) mile in VARCHARISE transaction id VARCHAR/36) membership id VARCHAR(36) o feature name VARCHAR(30) role name VARCHAR(30) Inser id VARCHAR(36) feature id VARCHAR(36) membership type VARCHARISO oapi VARCHAR(100) description VARCHARISON transaction type VARCHAR(10) ING H VARCHARISE description VARCHAR/500) created\_date DATETIME a created date DATETIME amount DECIMAL(7.2) created\_date DATETIME service\_charge DECIMAL(9,2) updated\_date DATETIME updated date DATETIME created date DATETIME updated\_date DATETIME trading fee DECIMAL(5.2) undated data DATETIME created date DATETIME PRIMARY PRIMARY feature id UNIQUE role id UNIQUE updated\_date DATETIME access role fi PRIMARY membership id UNIQUE bank user role hank\_id VARCHAR(36) user id VARCHAR(36) HOSE M VARCHAR/36) bank name VARCHAR(30) bank id VARCHAR(36) role id VARCHARI361 bank account number DECIMAL(20.0) updated date DATETIME PRIMARY created date DATETIME created date DATETIME bank id UNIQUE updated\_date DATETIME user\_role\_role\_fk brokerage id VARCHAR(36) user\_bank\_bank\_fk brokerage\_name VARCHAR(30 atreet address VARCHARIBO oty VARCHAR(30) user\_id VARCHAR(36) atate CHARIS address\_id VARCHAR(36) zipcode INT address type VARCHAR(10) user\_id VARCHAR(36) membership\_id VARCHAR(36 street\_address VARCHAR(60) created date DATETIME oity VARCHAR(30) first name VARCHAR(30) email\_log updated\_date DATETIME last\_name VARCHAR(30) state CHAR(2) o zipcode INT PRIMARY updated date DATETIME brokerage id UNIQUE created\_date DATETIME email\_id VARCHAR(50) brokerage membership fic PRIMARY created\_date DATETIME address\_id\_UNIQUE updated date DATETIME brokerage id VARCHAR(36) PRIMARY subscription user\_id\_UNIQUE brokerage id VARCHAR(36) user id VARCHARI361 Invoice id VARCHAR(36) user\_brokerage\_f stock ymbol VARCHAR(36) invoice date DATETIME symbol VARCHAR(36) created date DATETIME poyment due date DATETIME ocmpanyName VARCHAR(100) updated\_date DATETIME >+invoice amount DECIMAL /7.9 description TEXT created date DATETIME o created date DATETIME PRIMARY updated\_date DATETIME updated\_date DATETIME subscription stock fix user id VARCHARISE open DECIMAL(7,2) relationship manager VARCHAR(36) oclose DECIMAL(7,2) customer id INT invoice\_id\_UNIQUE high DECIMAL(7.2) invoice\_brokerage\_fk order\_history highTime BIGINT ○ low DECIMAL(7,2) order id VARCHAR(36) user\_id\_UNIQUE OlowTime BIGINT trade type VARCHAR(10) customer id UNIQUE latestPrice DECIMAL(7.2) order\_type VARCHAR(10) customer\_manager\_fk aletestLindate BIGINT user id VARCHAR(36) alstestVolume BIGINT symbol VARCHAR(36) Quoluma RIGINT payment\_history week52High DECIMAL(7.2) unit\_price DECIMAL(7,2) Invoice id VARCHAR/36 week52Low DECIMAL(7.2) order\_start\_time DATETIME payment id VARCHARI36 employee order\_end\_time DATETIME payment\_date DATETIME SCIDANCIDAV N. veru order\_status VARCHAR(36) payment\_method VARCHAR(10) designation VARCHAR(60) created\_date DATETIME created\_date DATETIME salary DECIMAL(9.2) updated\_date DATETIME updated date DATETIME commission DECIMAL (4.2) amount DECIMAL(7.2) superviser VARCHAR(36) employee\_id INT PRIMARY payment id UNIQUE navment history invoice for user id UNIQUE employee\_id\_UNIQUE employee\_superviser\_fk

## **Relational Model**



Data Warehouse

## **Statistics**

Number of Tables	31
Number of Stored Procedures	46
Number of Triggers	44
Number of Database Events	3
Number of Database Functions	1
Number of Indexes	45
Number of API	16
Number of Lambda Functions	20

History Table
External Table
Partition
Soft delete flag
EC2 Server
OCI ADW
S3
IEX Cloud

## **Learning Outcome**

- Stock Trading
- Data Warehouse
- Database Server
- ETL
- AWS
- OCI
- React
- Project Management
- Time and Resource Management

# CREDITS

Prof. Amit Patel

**Amazon Web Service** 

**Oracle Cloud Infrastructure** 

**IEX Cloud**