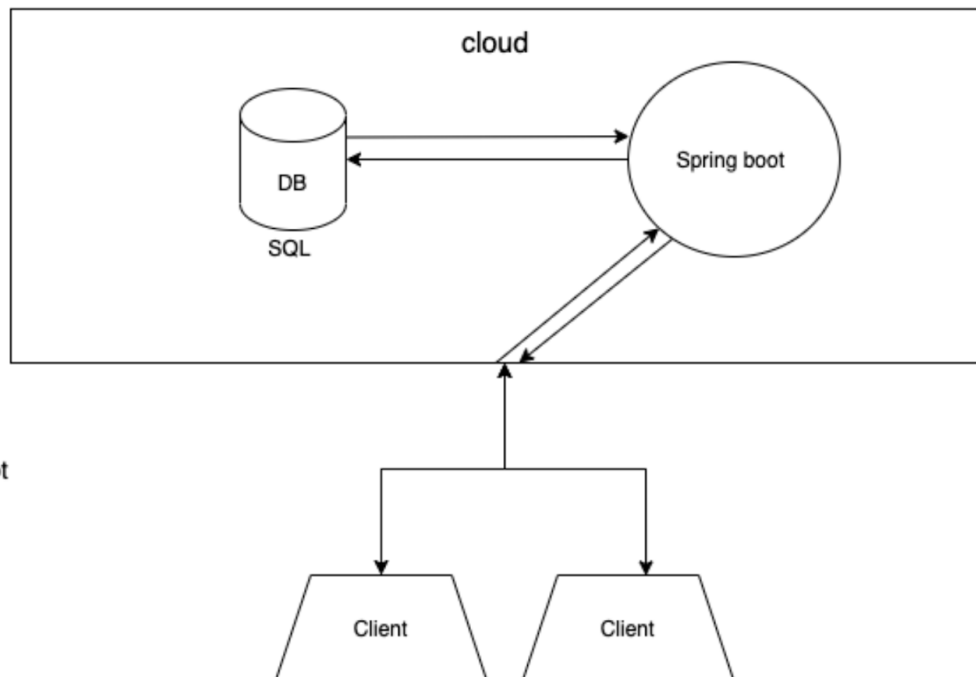


Team 3 Deliverables

— Anmol, Buchi, Eric, Zeenat —

Data Dictionary:

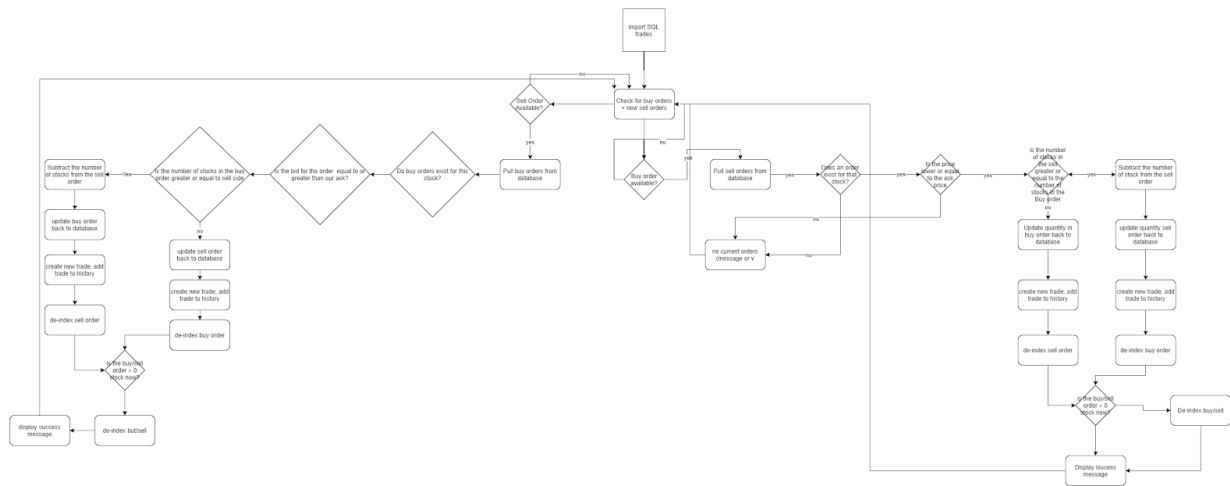
1. Stock: Units of equity ownership interest in a corporation or financial asset that provide for an equal distribution in any profits. .
2. Bid: the maximum price a buyer is willing to pay for the stock
3. Ask: the minimum price a seller is willing to sell their stock for
4. Order: A purchase of stock
5. Order Book: shows what orders in a stock are active on an exchange
6. Order Side: Specific side, either the buying or selling side
7. Order Status: The processing status of the order
8. Order Quantity: The number of shares in each order
9. Tick Size: The minimum unit of increase in the quoted value of a stock's price.
10. Party: The stock seller
11. Party Name: Name of stock seller
12. Party Symbol: 4 letter abbreviation for the party name
13. Trade: The purchase or selling of a piece of stock
14. Trade Price: The price at which a security is currently selling
15. Trade Quantity: The amount of shares that are bought for that specific trade
16. Buy Order: An Order for buying a certain amount of shares for a specific price
17. Sell Order: An Order for selling a certain amount of shares for a specific price.
18. Order Price: The price for each individual stock
19. History: An account for the all the trades marked by a time stamp



Database : Mysql

Server : Spring Boot

Client : ThymeLeaf



Entity Example:

```
@GeneratedValue(strategy = GenerationType.IDENTITY)
```

```
@Id
```

```
private int id;
```

```
@Column
```

```
private String name;
```

```
@Column(name = "date", columnDefinition = "DATE")
```

```
private java.sql.Timestamp date;
```

```
@ManyToOne
```

```
@JoinColumn(name = "superheroorsupervillainid", nullable = false )
```

```
private Superheroorsupervillain superhero;
```

```
List<Organization> findByLocation(Location location);
```

```
@Repository
```

```
public interface OrganizationRepository extends JpaRepository<Organization, Integer>{
```

```
    List<Organization> findByLocation(Location location);
```

```
    List<Organization> findBySuperheros(Superheroorsupervillain superheros);
```

```
}
```

Sys Reqs:

High-level Requirement s															
Project Name:	Order Book System														
Project Stage:	Build/Unit Test														
High-level Requirement ID	Business Topic	Requirement Name	Short Description	Priority	Release Number	Description	Requirement Source	Business/Process Area	Stability	Dependencies	Status	Owner	Change Request ID	Is this an Interface Requirement? (Y/N)	Notes
HLR_001	Order Creation	Create an Order	An admin must be able to create an order	High	1	An admin should be able to show a list of transactions and view a completed order, or authorize an order from a pending transaction.	SOW	Transaction	High	HLR_002	Approved	AJ	N/A	Y	None
HLR_002	Order Deletion	Delete an Order	An admin must be able to delete an order	High	1	An admin must be able to delete an order	SOW	transaction	High	HL@_001	Approved	AJ	N/A	Y	None

			able to delete an order			see an order and delete it from this order history in the system.									
HLR_003	Order Matching	Match an Order	The System should be able to match an order	High	1	The System should be able to find the closest Asking price with the closest selling price and Match the offer	SOW	Transaction	High	HLR_002, 001	Approved	AJ	N/A	Y	None
HLR_004	Ask Parsing	Get Ask	The System must get Ask values	High	1	The system should be able to parse values from an API	SOW	Registration	High	HLR_003	Approved	AJ	N/A	Y	None
HLR_005	Ask Parsing	Get API	access and use API	High	1	The system must access an API from a website	SOW	Registration	High	HLR_004	Approved	AJ	N/A	Y	None

HLR_006	Order Matching	Compare Ask and Bid	The system should compare prices.	High	1	The system must be able to compare ask and bid prices, and "match" them between two different values to make an agreeable trade. if the ask < bid, match the bid and the ask.	SOW	transaction	High		Approved	AJ	N/A	Y	None
HLR_007	Order Creation	Show list of orders	The system should show a list of trades	High	1	The system should be able to show a list of trades along with price and finding something like teh	SOW	Transaction	Medium	HLR_003	Under Review	RJ	N/A	N	None
HLR_008	Order Creation	Add Timestamp	System must	Low	1	System must	SOW	Transaction	Low	None	In Pro	RJ	N/A	N	None

			add a Time stamp to system			automatically add a time-stamp to the order					gress				
HLR_009	Account Maintenance	Course Scheduling	All courses and course sessions must be for available term	Medium	1	Only courses that are for the upcoming two terms will be available online	SOW	Student Schedule Maintenance	Low	None	Approved	RJ	N/A	N	None
HLR_010	Account Maintenance	Drop a course	A Student can drop a course on their schedule	High	1	Students can drop courses on their schedule for the available term online.	SOW	Student Schedule Maintenance	High	HLR_005	Approved	RJ	N/A	N	None
HLR_011	Account Maintenance	Drop multiple courses	A student can drop multiple course sessions at once	Low	1	A student can drop multiple course sessions to their account at once	SOW	Student Schedule Maintenance	Medium	HLR_005	Under Review	RJ	N/A	N	None
HLR_012	Account Maintenance	Maximum Limit on Course Load	A student is limited to a maximum	Medium	1	A student is limited to a maximum	SOW	Student Schedule Maintenance	Medium	None	Approved	RJ	N/A	N	None

			number of credits			number of credits in a term									
HLR_013	Account Maintenance	Minimum Limit on Course Load	A student must register of a minimum number of credits	Medium	1	A student must register of a minimum number of credits in a term	SOW	Student Schedule Maintenance	High	None	Approved	RJ	N/A	N	None
HLR_014	Account Maintenance	Withdrawal from a course	A Student can withdraw from a course on their schedule	Medium	1	Students can withdraw courses on their schedule for the available term online.	SOW	Student Schedule Maintenance	Medium	HLR_005	Approved	RJ	N/A	N	None
HLR_018	Course Maintenance	Add a course	An Admin can add a course to the system	High	1	An Admin can add a new course or course information to the system online	SOW	Course Maintenance	High	None	Approved	GG	N/A	N	None
HLR_019	Course Maintenance	Confirmation of course changes	System must send confirmation of course	Medium	1	The Course Registration System will provide	SOW	Course Maintenance	Low	None	In Progress	GG	N/A	N	None

			e changes			e a confirmation of any course changes perform on, or affecting a student account									
HLR_020	Course Maintenance	Find a course by department	A student or admin can search for a course by department	Low	1	The Course Registration System will provide a means for students and course administrators to find course information using a department name	SOW	Course Maintenance	High	None	Approved	GG	N/A	N	None
HLR_021	Course Maintenance	Find a course by name	A student or admin can search for a course by name	High	1	The Course Registration System will provide a means for students and course	SOW	Course Maintenance	High	None	Approved	GG	N/A	N	None

						administrators to find course information using a course name									
HLR_022	Course Maintenance	Remove a course	An Admin can remove a course to the system	High	1	An Admin can remove an existing course or course information to the system on-line	SOW	Course Maintenance	High	HLR_018	Approved	GG	N/A	N	None
HLR_023	Course Maintenance	Sort course information	A student or admin can sort course information	Medium	1	The Course Registration System will provide a means for students and course administrators to sort course information by the fields provided	SOW	Course Maintenance	High	None	Approved	GG	N/A	N	None
HLR_024	Course Maint	Update a course	An Admin can update	High	1	An Admin can update	SOW	Course Maint	High	HLR_018	Approved	GG	N/A	N	None

	enanc e		e cours e infor matio n to the syste m			e an existin g course infor mation to the syste m on-line		enanc e							
HLR_025	Cours e Sessi on Maint enanc e	Add a sessio n	Each cours e can have sessi ons adde d to it for the availa ble terms	Hig h	1	A course can have zero or more sessi ons that are registe red for	SOW	Cours e Maint enanc e	Hig h	HLR_018	App rove d	G G	N/A	N	None
HLR_026	Cours e Sessi on Maint enanc e	Confir matio n of cours e sessio n chang es	Syste m must send confir matio n of cours e sessi on chang es	Mediu m	1	The Cours e Regist ration Syste m will provid e a confir mation of any course sessi on chang es perfor med on, or affecti ng, a studen t accou nt	SOW	Cours e Maint enanc e	Low	None	In Pro gress	G G	N/A	N	None
HLR_027	Cours e Sessi on Maint enanc e	Remo ve a sessio n	Each cours e can have sessi ons remo	Hig h	1	A course can have zero or more	SOW	Cours e Maint enanc e	Hig h	HLR_025	App rove d	G G	N/A	N	None

			ved from it for the available terms			sessions that are registered for									
HLR_028	Course Session Maintenance	Session creation dependencies	A session is created after a course is created	High	1	A course must exist before a course session can be created for the course	SOW	Course Maintenance	High	HLR_018	Approved	GG	N/A	N	None
HLR_029	Course Session Maintenance	Time limits of session updates	A course session can be updated anytime	High	1	A course session can be added, updated, or removed at any time	SOW	Course Maintenance	Low	None	Under Review	GG	N/A	N	None
HLR_030	Course Session Maintenance	Update a session	Each course can have session information updated for the available terms	High	1	A course can have zero or more sessions that are registered for	SOW	Course Maintenance	High	HLR_025	Approved	GG	N/A	N	None

HLR_031	Course Session Maintenance	Display all available course sessions	A student must be able to view a list of all available course sessions	High	1	A student must be able to view a list of all available course sessions when logged in	SOW	Course Maintenance	Low	None	Under Review	GG	N/A	N	Still some discussions between departments about when the course sessions should be made available
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