

## Basic Details of the Team and Problem Statement

Ministry/Organization Name/Student Innovation- NCB

PS Code-SIH16727

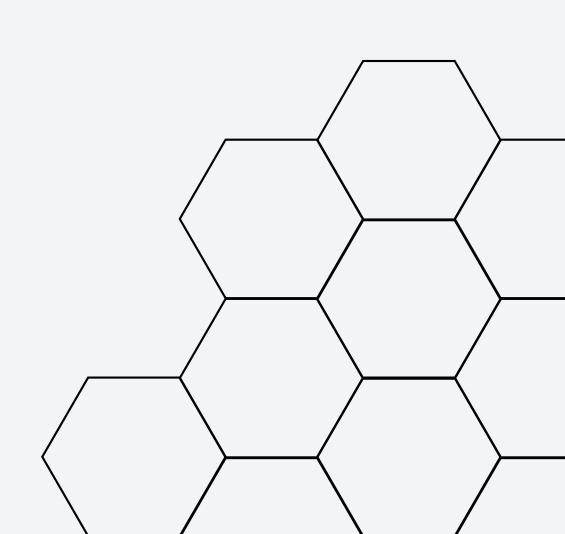
Team Name-Pantheon

Team Leader Name-Pranshu Upadhyay

Institute Code-

Institute Name-Shiv Nadar University, Delhi NCR

Theme Name-Biotech/MedTech



#### Team Member Details

<u>Team Leader Name-</u> Pranshu Upadhyay <u>Branch-</u> B.Tech <u>Stream-</u> CSE Year I

Team Member 1 Name- Aatharv Singh Branch- B.Tech Stream- CSE Year I

Team Member 2 Name- Jagrav Magon Branch- B.Tech Stream- CSE Year I

<u>Team Member 3 Name-</u> Sanya Tripathi <u>Branch-</u> B.Tech <u>Stream-</u> CSE Year I

<u>Team Member 4 Name-</u> Pratham Garg <u>Branch-</u> B.Tech <u>Stream-</u> ECE Year I

Team Member 5 Name- Saahil Gupta Branch- B. Tech Stream- ECE Year I



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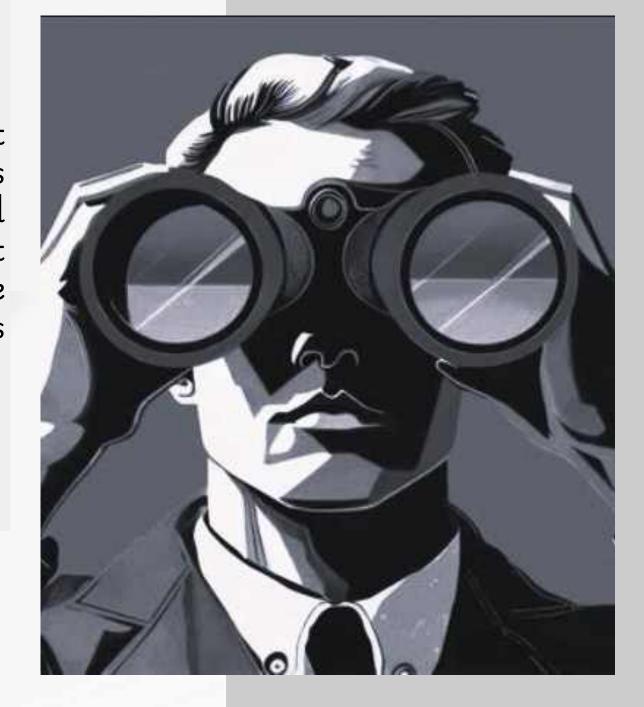
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#### OUR VISION

Our vision is to make the drug inventory and supply chain management system much more efficient and optimized by making some of the processes automated which should not only reduce company expenditure but it shall also reduce human error. In the Pharmaceutical world even the slightest error can prove to be fatal which is why we aim to make the process more secure by taking inspiration from blockchain to track each and every process which occurs from manufacturing to wholesale.





#### TARGET SECTORS

Small-Cap Pharma

Mid-Cap Pharma

The reason we target Small-Cap to Mid-Cap pharma companies is because these companies tend to have a higher burn which shows us that there is room for improvement. Not only that but unlike a Large-Cap company taking decisions and implementing them are much easier too.

#### SUPPLY CHAIN

Procyrement

Manufacturing

Logistics

Distribution

Retgil

Supply chain management in a pharmaceutical company entails the strategic coordination and supervision of the entire journey of pharmaceutical products, from raw material procurement to final delivery to consumers. The process begins with the sourcing of active pharmaceutical ingredients (APIs) and other essential raw materials, followed by drug manufacturing. At each stage, strict quality control and regulatory compliance are essential, given the industry's rigorous standards. After production, the drugs are packaged and stored in facilities that maintain optimal conditions, such as temperature regulation, before being distributed to wholesalers, pharmacies, or healthcare providers.

#### TABLE ACCESSIBLE to US

This table will only be visible to us and will be encrypted. Only the supply chain managers will be able to access it.

Re	sult Grid	Filter Rows:		Edit:	Export/Import:	8 6
	stock_code	drug_name	expiry_date	original_quantity	present_quantity	cost
•	1	Aspirin	2025-05-15	100	40	10000.00
	2	metronidazole	2025-08-25	50	30	7000.00
	3	azithromycin	2025-02-08	75	20	5900.00
	4	momentasone furo 80	2025-12-21	60	17	6600.00
	5	paracetamol	2025-10-27	110	7	12000.00
	6	crocin	2025-01-28	22	2	6200.00
	RULL	NULL	NUMBER	HULL	RURY	HULL
70	1					

#### TABLE ACCESSIBLE to WAREHOUSE

This table will be visible and certain values like the Present Quantity will be modifiable by the people managing the warehouse.

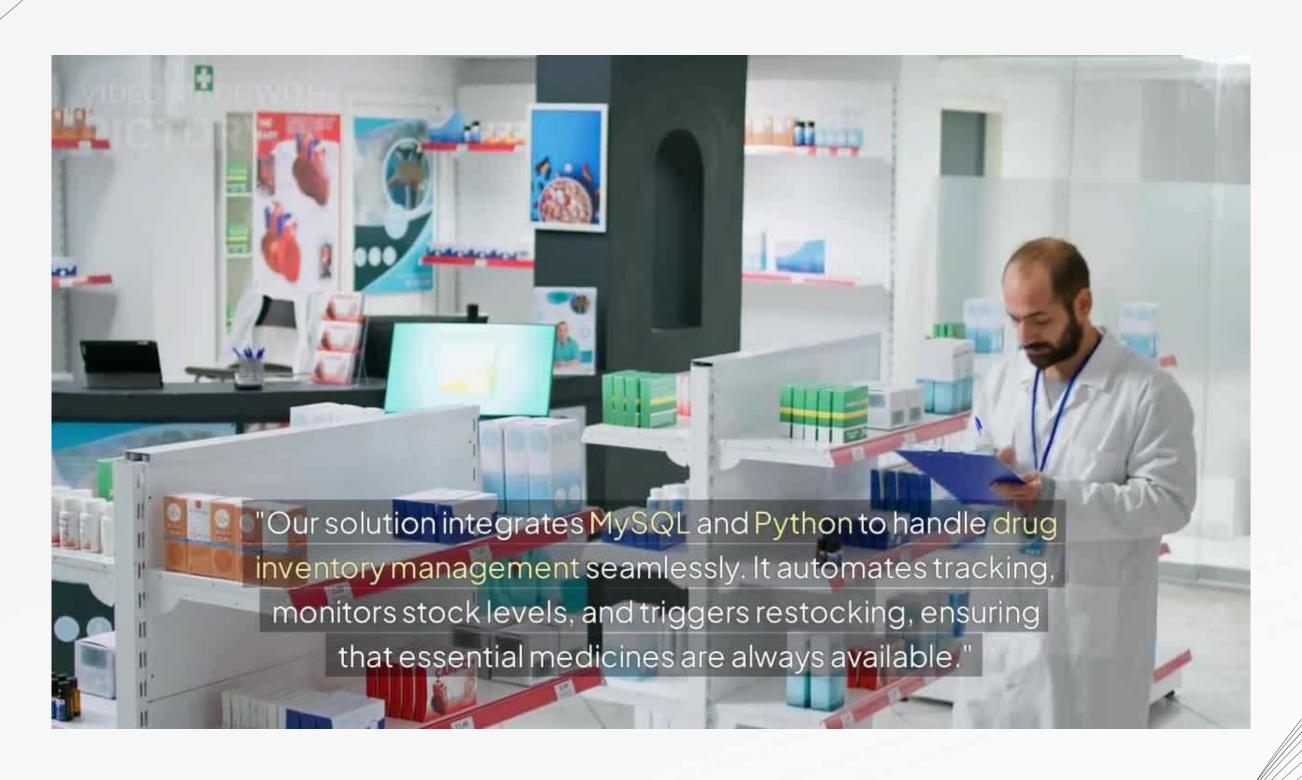
Re	sult Grid	Filter Rows:		Edit:
	stock_code	drug_name	expiry_date	present_quantitiy
٠	1	Aspirin	2025-05-15	40
	2	metronidazole	2025-08-25	30
	3	azithromycin	2025-02-08	20
	4	momentasone furo 80	2025-12-21	17
	5	paracetamol	2025-10-27	7
	6	crocin	2025-01-28	2
*	RIVEL	NULL	NUMBER	MULL

#### TABLE ACCESSIBLE for LOGISTICS

This table will hold all the tracking ID's and will also show the the loss rate of products by telling us about the quantity sent and recieved.

drug_id	drug_name	tracking_id	quan_stock	quan_stock_received	manf_date	exp_date_stock	date_sent	date_received
1	Aspirin	MET11107091234DEL	100	98	2025-05-15 14:23:45	2024-06-29	2024-07-15 09:12:33	2024-07-20 17:45:20
2	metronidazole	MET11107691234DEL	90	87	2025-08-25 11:47:12	2024-06-28	2024-07-15 09:12:33	2024-07-20 17:45:20
3	azithromycin	MET11169691234DEL	115	112	2025-02-08 05:13:27	2024-06-27	2024-07-15 09:12:33	2024-07-20 17:45:20
4	momentasone furo 80	MET11142061234DEL	70	65	2025-12-21 21:18:56	2024-06-30	2024-07-15 09:12:33	2024-07-20 17:45:20
5	paracetamol	MET11164201234DEL	90	86	2025-10-27 10:33:01	2024-06-29	2024-07-15 09:12:33	2024-07-20 17:45:20
6	crocin	MET11169421234DEL	80	74 [[[]]]	2025-01-28 13:55:19	2024-06-29	2024-07-15 09:12:33	2024-07-20 17:45:20

### Video Representation



# THANK'S FOR WATCHING

