

## INVENTORY MANAGEMENT SYSTEM FOR RETAILERS

### LITRATURE SURVEY

S.No	Project Title & Author	Paper Source	Year	Methodology Used	Advantages	Disadvantages
01	Application of Database Technology to Improve the Efficiency of Inventory Management for Small Businesses	IEEE	2014	Multi-product inventory model	·Chronological flow accounting (income and expenditure ) of many types of goods for the year	·
02	Performance improvement of inventory management system processes by an automated warehouse management system	IEEE	2015	In order to ensure precision, Business Process Model and Notation (BPMN) flow charts were created for each individual process	The main purpose of automati ng the warehou se system is to control the moveme nt and storage of the products, together with the	·

					benefit of enhance d security and quicker handling.	
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03	Web – Based Intelligent Inventory Management System	IEEE	2017	<p>This work employs fuzzy logic approach to fuzzify supply and demand which serve as main inputs to the system to provide an intelligent reporting of information needed to make decisions for inventory managers .</p>	<p>·Implemented in a distributed manner utilizing client – server model of architecture in a web – based environment.</p> <p>·This system provides real time inventory monitoring of an organisation with multiple warehouses of locations for business operations.</p>	<p>·</p> <p>· Matrix attack, Brutus attack, Gossip attack, Matteotti attack</p>

04	Privacy-Sensitive Protocols And Mechanisms for Mobile Contact Tracing		2020	Mobile-assisted contact tracing interviews, Narrowcast messages, protocol used-Privacy sensitive,	<ul style="list-style-type: none"> <li>• Third party free contact tracing</li> <li>• Confidentiality, Re-Identification</li> </ul>	<ul style="list-style-type: none"> <li>• Attacks like Inferential attacks, Integrity attacks, etc.,</li> </ul>
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				mobile tracing		<ul style="list-style-type: none"> <li>The mobile proximity tracing does not directly inform public authorities who may be a contact.</li> </ul>
05	Trust and Transparency in Contact Tracing Applications		2020	Digital Contact Tracing Techniques	<ul style="list-style-type: none"> <li>a broad FactSheet template to support transparency of contact tracing applications</li> </ul>	<ul style="list-style-type: none"> <li>Privacy and coverage</li> <li>Security and Access</li> </ul>
06	Tracking the covid zones through geo-fencing technique		2020	After tracking a suspicious area, a geo-fenced( is a concept of building a virtual perimeter area) layer is	It reduces operational costs by using an automated system based on wireless infrastructure. It also alerts the authority immediately to	<ul style="list-style-type: none"> <li>The workflow of the system demands the required data sets</li> </ul>

				mapped in the area and then virtual perimeter is used for further processing.	catch the violators.	<p>and permission in a legal manner to set up the environment that maintains the constitutional law and order in practice.</p> <ul style="list-style-type: none"> <li>• Privacy concern is debatable.</li> </ul>
07	<p>The experience of contact tracing in Singapore in the control of COVID-19: highlighting the use of digital technology</p> <p>Sean Han Sheng Lai &amp; Camelia Qian Ying Tang &amp; Asok Kurup &amp; Gowreeson Thevendran</p>		2020	Contact Tracing and Digital contact tracing(DCT)	TraceTogether does not track location or contacts, and data is stored locally on the phone for 21 days and will not be accessed unless the individual has been identified as a close contact, and measures are in place to	<ul style="list-style-type: none"> <li>• DCT is not ready to replace the manual and meticulous work</li> <li>• safeguarding data safety and</li> </ul>

					protect the individual's mobile number	patient privacy
08	Privacy, Ethics, and Contact-tracing Apps  Teresa Scassa, Jason Millar, and Kelly Bronson		2020	AI-enabled Contact-tracing, Contact-tracing as a Public Health Measure	<ul style="list-style-type: none"> <li>Centralized vs Decentralized Data Storage</li> </ul>	<ul style="list-style-type: none"> <li>insufficient testing, test results may be substantially delayed</li> </ul>
09	BlueTrace: A privacy-preserving protocol for community-driven contact tracing across borders  Jason Bay, Joel Kek, Alvin Tan, Chai Sheng Hau, Lai Yongquan, Janice Tan, Tang Anh Quy		2020	OpenTrace and Blue Trace	<ul style="list-style-type: none"> <li>Data protection and Privacy safeguards</li> </ul>	<ul style="list-style-type: none"> <li>Encounter Message replay/relay attack</li> <li>Implementation-i) Challenges -iOS background bluetooth limitations</li> <li>ii) Difference in transmission power</li> </ul>

						across devices
10	Trustless Approaches to Digital Infrastructure in the Crisis of COVID-19  Kelsie Nabben		2020			
11	Development of an Android application for viewing Covid19 containment zones and monitoring violators who are trespassing into it  Ranajoy Mallik, Amlan Protim Hazarika, Sudarshana Ghosh, Dilip Sing, Rajib Bandyopadhyay		2020	Firebase cloud Firestore database with location data of containment zones and Geofencing	<ul style="list-style-type: none"> <li>updates the locations of the areas in a Google map which are identified to be the containment zones</li> </ul>	
12	A survey of COVID19 Contact Tracing Apps  Nadeem Ahmed, Regio A. Michelin, Wanli	IEEE	2020	centralised, the decentralised, and the hybrid approaches(	<ul style="list-style-type: none"> <li>Data management, privacy and security</li> <li>Proximity</li> </ul>	<ul style="list-style-type: none"> <li>Wireless Device Tracking</li> <li>Location</li> </ul>



	Xue, Sushmita Ruj, Robert Malaney, Salil S. Kanhere, Aruna Seneviratne, Wen Hu, Helge Janicke and Sanjay K. Jha			combination of both)	estimation	confirmation <ul style="list-style-type: none"> <li>• Enumeration attack</li> <li>• Denial of service</li> </ul>
13	MoveInSync's Containment Zone Tracker Aims At Democratizing Information Flw		2020	Leverages with REST APIs to sync with the data and keeps it updated. The map data is overlaid with KMZ files to display the containment zone boundaries.	This covid tracker does not store any personal information provided by the user so it is more secure.	To ensure it is available to all citizens and cities it will tough to maintain that huge amount of data.
14	Defining Covid 19 containment Zone using K-means dynamically		2020	K-means technique of Data Science	<ul style="list-style-type: none"> <li>• K-means can be adapted to define the micro-level demarcation of containment zones and manage</li> </ul>	Information parameters required as per the Govt. of India strategy and containment plan for large outbreaks

					<p>them effectively.</p> <ul style="list-style-type: none"> <li>The clusters formed based on COVID-19 patients' location al data using Data Science techniques (specifically K-means) will be agile, unbiased, accurate, visible, economic and easy to apply.</li> </ul>	
15	Regionalization for infection control: An algorithm for delineating containment zones		2020	a novel network community detection method, the Human Mobility	The zoning patterns proposed in our algorithm could also allow for more life functions in	It is difficult to effectively contain an epidemic to a small-scale

	considering the regularity of human mobility			Regularity-based Zoning (HuMoRZ) algorithm, to delineate containment zones incorporating mobility regularity.	a zone and more evenly distributed life resources across zones than those of zones generated by other methods.	containment zone
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