Project Design Phase-I
Proposed Solution Template

Date	18 May 2023
Team ID	PBL-NT-GP--2691-1680616670
Project Name	Go No Queue-Rush Estimator for corporate cafeteria

Proposed Solution:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	A corporate cafeteria serves hundreds of employee's during peak hours often delaying the order which results in longer queues
2.	Idea / Solution description	We implement the solution using an IoT device integrated with a camera module which is connected with IBM IoT platform which communicates with node red. By the Web UI through which the end user gets the people count.
3.	Novelty / Uniqueness	1. Integration with IBM IoT platform 2. Node-RED is utilized as the backend to handle data from IoT device 3. Web based User Interface is implemented
4.	Social Impact / Customer Satisfaction	1. Improved customer Experience 2. Efficient resource allocation 3. Reduced queue time 4. Improved planning
5.	Business Model (Revenue Model)	1. Installation and Set-up up fee 2. Yearly basis subscription fee 3. Extra cost for UI interface specific design 4. Additional hardware: Multiple IoT device for various regions of the cafeteria
6.	Scalability of the Solution	1. Handling increased user base 2. Optimal performance and response time is to be maintained 3. By leveraging cloud based infrastructure 4. Scaled to manage multiple queues in the cafeteria