**Project Proposal**

**Designing MPI Based Queuing Management System Using JAVA Language**

**Abstract:**

Since queues are formed of entities or people in different scenarios and locations like restaurants, banks and so on, therefore in order to cater these queues in better way a system is required.

Such system having capability to reduce time, cost and make better customer service in different situations.

Thus, we are going to make queuing system where communication amongst components of queuing system will be MPI based that will be implemented in Java language.

Further note that such system has already been made using C++ but user interface is yet to complete. So, using JAVA language, we will be designing queuing system for industrial use.

By using queuing system, customers are satisfied with the turn by turn system and there is no mess up at the counter. Token number will be called and the one with the same token number have an access to the counter for collecting their meal/product.

**Applicable On:**

1. Restaurant
2. Petrol Pump
3. Utility Store
4. Banks
5. Ticket counter
6. Cinema

**Targeting Conference:**

IEEE International Conference on Computer Communications

|  |  |  |
| --- | --- | --- |
| Location | Paris, France |  |
| Date | 29 April - 2 May 2019 |  |

**URL:** [**https://infocom2019.ieee-infocom.org/accepted-paper-list-main-conference**](https://infocom2019.ieee-infocom.org/accepted-paper-list-main-conference)

The 13th Annual IEEE International Systems Conference

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| --- | --- | --- |
| Location | ORLANDO, FLORIDA, UNITED STATES |  |
| Date | APRIL 8-11, 2019 |  |

**URL:** [**http://www.ieeesyscon.org/**](http://www.ieeesyscon.org/)

**References:**

[1] https://drive.google.com/drive/folders/1RAK\_Wrn7suCmVR3FQQ0l2LprDrpaziddon.

[2] Ron Brightwell*.*, “A Preliminary Analysis of the MPI Queue Characteristics of Several Applications” pp. 1-9, 2005.

[3] <https://www.researchgate.net/publication/259118287_A_fast_and_resource> conscious\_MPI\_message\_queue\_mechanism\_for\_large-scale\_jobs.

[4] <http://www-it.desy.de/common/documentation/cd-docs/sun/blueprints/0102/jobsys.pdf>.

[5] https://dl.acm.org/citation.cfm?id=1894146

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