

# Automatic Queuing Model for Banking Applications

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**Abstract**—Queuing is the process of moving customers in a specific sequence to a specific service according to the customer need. The term scheduling stands for the process of computing a schedule. This may be done by a queuing based scheduler.

This paper focuses on the bank lines system, the different queuing algorithms that are used in banks to serve the customers, and the average waiting time. The aim of this paper is to build automatic queuing system for organizing the bank queuing system that can analyze the queue status and take decision which customer to serve. The new queuing architecture model can switch between different scheduling algorithms according to the testing results and the factor of the average waiting time. The main innovation of this work concerns the modeling of the average waiting time is taken into processing, in addition with the process of switching to the scheduling algorithm that gives the best average waiting time.

**Keywords**—Queuing Systems; Queuing System models; Queuing System Management; Scheduling Algorithms.

## I. INTRODUCTION

Today banks are one of the most important units of the public. Since the foundational work of banks, many researchers try to get full advantage of any new technology to increase customer satisfaction. Therefore an active research has focused on analyzing the queues to optimize their operations and to reduce waiting time for customers [1,2,3].

This paper focuses on the bank lines system and the different queuing algorithms that used in banks to serve the customers. Most banks used standard queuing models. To avoid standing in a queue for a long time or in a wrong line, most banks use automatic queue system to give tickets to all customers. The customer can push a specific button in a tickets supplier device according to their needs.

The aim of this paper is to decrease customers waiting time by building a homogenous way that analyze the queue status and take decisions about which customer to serve by using the appropriate scheduling algorithm.

The rest of this paper is organized as follows. Section 2 consists of queuing systems characteristics, most common scheduling algorithms, and the queue models. Then our proposed queuing system model is shown in section 3. Experimental results are shown in section 4, followed by brief conclusions and suggestions for future work are shown in section 5. Then the references are shown in section 6.

## II. QUEUING SYSTEMS

A queuing system consists of one or more servers that provide service to arriving customers. Figure 1 shows the characteristics of queuing system [4].

The population of customers may be finite (closed systems) or infinite (open systems). The arrival process describes how customers enter the system. The customers arrive to the service center in a random fashion.

Queue represents a certain number of customers waiting for service. The capacity of a queue is either limited or unlimited. Bank is an example of unlimited queue length.

The service is an activity requested by a customer, where each service takes a specific time. The scheduling algorithm is used to order the customers and to choose the next customer from the queue. The most common scheduling algorithms are [4,5]:

a) *FCFS (First Come First Serve)*: The customers are served in the order of their arrival, which is most visibly fair because all customers think of themselves as equal.

b) *RSS (Random Selection for Service)*: In this algorithm, customers are selected for service at random, so each customer in the queue has the same probability of being selected for service irrespective of his/her arrival in the service system.

c) *PRI (Priority Service)*: The customers are grouped in priority classes according to some external factors. The customer with the highest priority is served first.

d) *SPF (Shortest Processed First)*: The algorithm assumes that the service times are known in advance. When several customers are waiting in the queue, the SPF algorithm picks the shortest service time first.

The departure represents the way customers leave the system.



Figure 1: Simplest Queuing System

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## Thesai

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## **Automatic Queuing Model For Banking Applications Thesis:**

*Application of Queuing Model in a Banking Service in PNG.* Brian Billy, Joe Paru, Lui Masti, Herod Malo, Mirzi Betasolo, 2019 Queuing is a common sight in the service industry such as bank transactions of employees receiving their wages at the end of a fortnight and other customers working in private or sector Customers and service providers place differing values of the time Those who have access to privileges with a fee passes the queue while those who can't remain in the line The paradigm shift in technology and ICT has created a new brand of society that considers queuing as a thing of the past The use of mobile fund transfer or online banking relieves the challenges The paper uses the method Queuing model or waiting for line model which is the one mathematical model used to study and analyze long queues in the service industries This paper will demonstrate how well queuing models can be used to analyze and understand the behavior of the queues particular in the banking industry using the QM for Windows software The result shows a better understanding of how time is valued and is discussed in the paper presentation

Queueing Modelling Fundamentals Professor Chee-Hock Ng, Professor Soong Boon-Hee, 2008-04-30 Queueing analysis is a vital tool used in the evaluation of system performance Applications of queueing analysis cover a wide spectrum from bank automated teller machines to transportation and communications data networks Fully revised this second edition of a popular book contains the significant addition of a new chapter on Flow Congestion Control and a section on Network Calculus among other new sections that have been added to remaining chapters An introductory text Queueing Modelling Fundamentals focuses on queueing modelling techniques and applications of data networks examining the underlying principles of isolated queueing systems This book introduces the complex queueing theory in simple language proofs to enable the reader to quickly pick up an overview to queueing theory without utilizing the diverse necessary mathematical tools It incorporates a rich set of worked examples on its applications to communication networks Features include Fully revised and updated edition with significant new chapter on Flow and Congestion Control as well as a new section on Network Calculus A comprehensive text which highlights both the theoretical models and their applications through a rich set of worked examples examples of applications to data networks and performance curves Provides an insight into the underlying queuing principles and features step by step derivation of queueing results Written by experienced Professors in the field Queueing Modelling Fundamentals is an introductory text for undergraduate or entry level post graduate students who are taking courses on network performance analysis as well as those practicing network administrators who want to understand the essentials of network operations The detailed step by step derivation of queueing results also makes it an excellent text for professional engineers

Queueing Theory and Network Applications Wuyi Yue, Quan-Lin Li, Shunfu Jin, Zhanyou Ma, 2017-11-22 This book constitutes the proceedings of the 12th International Conference on Queueing Theory and Network Applications QTNA 2017 held in Qinhuangdao China in August 2017 The 19 full papers included in this volume were carefully reviewed and selected from 65 initial submissions

They deal with queueing models queueing applications and network models

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