

Automatic Queuing Model for Banking Applications

Dr. Ahmed S. A. AL-Jumaily
Department of Multimedia
IT College, Ahlia University
Manama, Bahrain

Dr. Huda K. T. AL-Jobori
Department of Information Technology
IT College, Ahlia University
Manama, Bahrain

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) *SPT (Shortest Processed First)*: The algorithm assumes that the service times are known in advance. When several customers are waiting in the queue, the SPT 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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Table of Contents Automatic Queuing Model For Banking Applications Thesai

1. Understanding the eBook Automatic Queuing Model For Banking Applications Thesai
 - The Rise of Digital Reading Automatic Queuing Model For Banking Applications Thesai
 - Advantages of eBooks Over Traditional Books
2. Identifying Automatic Queuing Model For Banking Applications Thesai
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Automatic Queuing Model For Banking Applications Thesai
 - User-Friendly Interface
4. Exploring eBook Recommendations from Automatic Queuing Model For Banking Applications Thesai
 - Personalized Recommendations

- Automatic Queuing Model For Banking Applications Thesai User Reviews and Ratings
- Automatic Queuing Model For Banking Applications Thesai and Bestseller Lists
- 5. Accessing Automatic Queuing Model For Banking Applications Thesai Free and Paid eBooks
 - Automatic Queuing Model For Banking Applications Thesai Public Domain eBooks
 - Automatic Queuing Model For Banking Applications Thesai eBook Subscription Services
 - Automatic Queuing Model For Banking Applications Thesai Budget-Friendly Options
- 6. Navigating Automatic Queuing Model For Banking Applications Thesai eBook Formats
 - ePub, PDF, MOBI, and More
 - Automatic Queuing Model For Banking Applications Thesai Compatibility with Devices
 - Automatic Queuing Model For Banking Applications Thesai Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Automatic Queuing Model For Banking Applications Thesai
 - Highlighting and Note-Taking Automatic Queuing Model For Banking Applications Thesai
 - Interactive Elements Automatic Queuing Model For Banking Applications Thesai
- 8. Staying Engaged with Automatic Queuing Model For Banking Applications Thesai
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Automatic Queuing Model For Banking Applications Thesai
- 9. Balancing eBooks and Physical Books Automatic Queuing Model For Banking Applications Thesai
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Automatic Queuing Model For Banking Applications Thesai
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Automatic Queuing Model For Banking Applications Thesai
 - Setting Reading Goals Automatic Queuing Model For Banking Applications Thesai
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Automatic Queuing Model For Banking Applications Thesai
 - Fact-Checking eBook Content of Automatic Queuing Model For Banking Applications Thesai

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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