Software Requirements Specification

For

Playtime Theatre Company

By Joseph and Cheryl

# Introduction

## Identification of the software product

This is a prototype theatre ticket system for the Playtime Theatre Company

## Intended audience of this Software Requirements Specification

This document is for the Playtime Theatre Company management team and for the software developer.

## Purpose of the software product

This software product should calculate the cost of tickets, record the ticket sales, allow the ushers and volunteers to check seating and print replacement tickets

# Scope

## Items within Scope

* Calculation of ticket cost
* Saving the data to file
* Searching for ticket sales
* Printing tickets

## Items not in Scope

* Automatic allocation of seats
* Validation of data entry
* Online booking
* Issuing of receipts
* Summary reports such as list of theatre goers or total takings for shows (these might be features of the final product, but this is only a prototype)

## Operating Environment

The theatre has is a star network using an Ethernet protocol 100Mbps/1Gbps speed.

There is a desktop computer in the front office and netbooks available to theater members who wish to prepare fliers or do some web browsing. The netbooks connect to a wireless router. All computers run Windows 7.

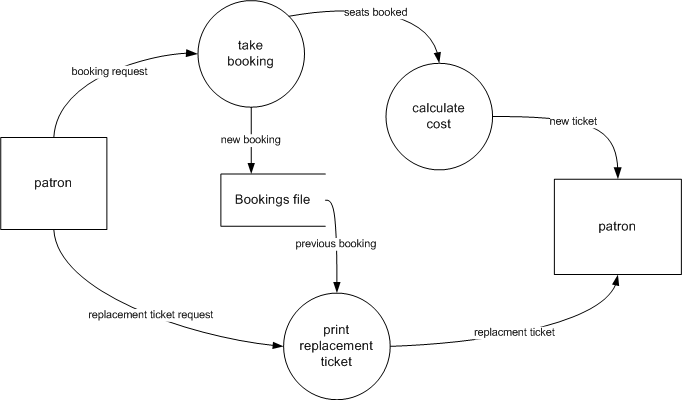
There is also TCP/IP for browsing the web

# Documentation

## Context Diagram



## Data Flow Diagram



## Use Case Diagram



# Requirements

## Functional Requirements

|  |  |
| --- | --- |
| **No** | **Functional Requirement** |
| FR1 | allow for entry of new bookings with the following details   * customer’s title, first and last name and phone number * number of adult and children’s tickets * membership number if the patron is a member (the membership number is a five-digit number eg. 17642) * row and seat number of their first ticket (if a patron booked 5 tickets in A15, they would have A15 – A19) * date of the performance * whether they’ve paid |
| FR2 | The program should automatically display the   * total amount payable * GST * discount (if any)   The user must be able to send data to a text file to print a replacement for a lost ticket so that they can show the usher their seat number.  The program must automatically save a record of the sale after each transaction. |
| FR3 | Print tickets |
| FR4 | Save a record of the sale to a file after each transaction |
| FR5 | Load sales from the file to search for lost tickets |

## Non - Functional Requirements

|  |  |
| --- | --- |
| **No** | **Non - Functional Requirement** |
| NFR01 | Enable usher to **quickly** search for a patron’s name to find their allocated seats |
| NFN02 | Print **accurate** and **easy to read** tickets |
| NFR03 | **Accurately** calculate the cost of the tickets |
| NFR05 | **Easy** to use for non-technical theatre volunteers |
| NFR06 | **Secure** connection to network so that private information about patrons is not visible to sniffers. |

# Constraints

|  |  |  |
| --- | --- | --- |
| **No** | **Constraint** | **Explanation** |
| C1 | Cost | The Playtime Theatre Company have a very small operating budget and cannot afford to buy any more equipment so the software must run on the existing desktop computer and netbooks. |
| C2 | Screen brightness | In order for the ushers to check tickets without interfering with other patrons, the screen must not be bright. |

*Developed by Esther Andrews, Bendigo Senior Secondary College.*

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