

Software Requirements Specification

For Camp Kabouyak Forest Garden

Camp Ground Reservation System

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Table of Contents

1. Introduction.....	1
1.1 Purpose.....	1
1.2 Intended Audience and Reading Suggestions.....	1
1.3 Project Scope	1
1.4 Reference	2
2. Overall Description	2
2.1 Product Perspective	2
2.2 Product Function	2
2.3 Functional Requirements	3
2.4 User Classes and Characteristics.....	3
2.5 Operating Environment	4
2.6 Design and Implementation Constraints	4
2.7 User Documentation	5
3. Non-Functional Requirements.....	5
3.1 Performance Requirements	5
3.2 Safety Requirements	5
3.3 Security Requirements	6
3.4 Software Quality Attributes.....	6
3.5 Business Rules	7

1. Introduction

1.1 Purpose

The main purpose of this System Specification Document (SRS) is to provide a detailed description of the various requirements for Camp Kabouyak Forest Garden Management System. This document will provide an illustration of the functionalities of the system and how it will interact with the external users and the constraints under which it will operate. Additionally, this document will serve as the foundation for the development and design of the system where user requirements mentioned must be fulfilled to the required standard.

1.2 Intended Audience and Reading Suggestions

The intended audience of this document is as follows:

- Lecturer/ Tutor
- Development team
- Staff members of Camp Koubouyak
- Proprietor of Camp Koubouyak

1.3 Project Scope

The system to be developed will be specifically tailored to the requirements of Camp Koubouyak Forest Garden, these requirements when implemented will manage the daily operations and transactions of the business in an effective and efficient manner as well as eliminating issues such as overbooking, making/ canceling reservations and payment.

1.4 Reference

<https://www.yumpu.com/en/document/read/10975588/srs-examplepdf-ibm>

http://www.cse.chalmers.se/~feldt/courses/regeng/examples/srs_example_2010_group2.pdf

<https://studylib.net/doc/25291043/srs-document-for-hotel-management-system>

2. Overall Description

2.1 Product Perspective

The Camp Kabouyak Forest Garden is a new self-containing software product that will be developed by the project team to address reservation issues that have arisen because of the current manual system. The newly introduced system will allow for easy system access and will include user-friendly functions with appealing interfaces. The system will provide better options for the problem of handling a large-scale physical file system, errors in calculations, and all other required tasks specified by the client. The project's outcome will improve the efficiency of all tasks performed at Camp Kabouyak Forest Garden in a much more convenient manner.

2.2 Product Function

- Record Booking
- View Booking
- Issue Bills
- Add payment
- Confirm booking
- Email notifications
- Manage Guests (Add, Update, Delete)
- Manage Camp Packages (Add, Update, Delete)
- Manage Tour Guides (Add, Edit, Delete)

2.3 Functional Requirements

1. The system shall receive a booking via phone call or social media platform.
2. The system must provide authentication to the users by verifying the username and password before accessing the system.
3. Accept the date and time to check the camp package available for that particular time.
4. Record and make changes to customer's Information
5. View/Edit Booking information.
6. The system shall Compute and show accommodation charges
7. The system shall send Booking confirmation via email to Customer after confirmation of down payment
8. The system shall be able to cancel bookings.
9. The system shall allow relative personnel to pre-assign tour guides to customer
10. The system must allow for regular back-up and recovery of all files.

2.4 User Classes and Characteristics

Administrator

- Improve Database based on feedback from users
- Backup and Restore Database

Receptionist

- Record Booking
- Check Camp Packages
- Add/Edit Customer Information
- Compute and Issue accommodation charges

Proprietor/Manager

- Create Login credentials for users
- Receive/update payment customer's payments
- Confirm booking
- Issue Confirmation Email
- Add packages
- Assign Tour guides

2.5 Operating Environment

Hardware: -

- Operating System supports windows operating systems, such as Windows10.
- Computer 8GB+ RAM, monitor with minimum resolution of 1024x768, keyboard, and mouse.
- Hard Drive should be in NTFS file system formatted with a minimum of 40GB of free space

Software: -

- Software is designed to run on any platform above Microsoft Windows 10 (32bit) and higher.
- Microsoft .NET Frameworks 4.5 or above.

2.6 Design and Implementation Constraints

To enter the booking system authorized users must login with correct username and password.

The Graphical User Interface (GUI) will only be in English.

Due to occasional disruption of internet connection, alternative internet connection must be put in place to minimize downtime. Since internet connection is needed for the application to function.

Given that it is a new system for a small business, schedule and timing of system completion must be closely followed to keep within the budget.

2.7 User Documentation

For the purpose of teaching potential users, a training manual will also be made available.

3. Non-Functional Requirements

3.1 Performance Requirements

The performance requirements for the system are listed as follows; Data in the database should be updated within 2 seconds. Query results must return results within 5 seconds. The load time of the UI should not take more than 2 seconds. Login validation should be done within 3 seconds. Order processing should be done within 3 seconds. Responses to customer inquiries must be made within five minutes.

3.2 Safety Requirements

The safety of data in the system's database will be ensured by maintaining backups. In the event of an emergency, the system can be restored. In the event of extensive damage to a wide portion of the database due to catastrophic failure, such as a disc crash, the recovery method restores a past copy of the database that was backed up to archival storage and reconstructs a more current state by reapplying or recording the operations of committed transactions from the backed-up log, up to the time of failure.

3.3 Security Requirements

There will be several user levels in the system, and access to the various subsystems will be protected by a user login screen that requires a username and password. This will give different views and accessible functions based on the user's level within the system. The owner will have control over all subsystems and will have the ability to restrict or limit access to the subsystems for the other users to maintain control over who has access to what.

3.4 Software Quality Attributes

The system will have the following software quality attributes:

- **Availability:** -The system shall be available 24/7
- **Efficiency:** - The system shall consume fewer resources and cut down on the amount of time needed to complete a given task.
- **Flexibility:** - The system shall have the ability to add new features and handle them conveniently.
- **Integrity:** - The system shall secure the information in the system to avoid the data loss, and interfaces and database tables will have referential integrity.
- **Maintainability:** - It shall be easy to keep the system as it is and correct defects with making changes.
- **Portability:** -The System shall run in any Windows environment.
- **Reliability:** - The system shall be able to satisfy smooth day to day operations. The backup and recovery procedures shall ensure minimal downtime.
- **Reusability:** - The system shall be compatible with other systems components and allow integration if necessary.

- **Usability:** - The system shall be user friendly.
- **Robustness:** –The system shall be capable to handle system functions accurately and maintain the database without facing unexpected failures.
- **Testability:** - It shall be easy to identify system faults.

3.5 Business Rules

The Camp Kabouyak Management Information System will perform under three users, which will be the Proprietor/Manager, Administrator and Receptionist. The system will be set up so that from Proprietor/Manager to Receptionist, authority and privileges will be reduced. The Proprietor/Manager will be in charge of and have access to certain components of the system, including functions such as management of financial information, and report generation. The Administrator will oversee and monitor the system. They will be responsible for ensuring the system runs smoothly and regular backups are done. The Receptionist will be in charge of the system's most used functions, such as the handling of reservations and processing of transactions. The Proprietor/Manager will be the only person with access to delete any data from the system. Users must report any problems to the Manager, who must then report them to the Administrator for it to be dealt with.