# Requirements Definition

**"Holiday Out" Hotel project**

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# Revision History

| Name | Date | Reason For Changes | Version |
|---|---|---|---|
| Damian Fok | 12.12.2006 | First version of SRS | 1.0 |
| Damian Fok | 13.12.2006 | Improve Purpose and Scope | 2.0 |
| Damian Fok | 17.12.2006 | Improve Functional requirements | 3.0 |
| Damian Fok | 21.12.2006 | Appended UML diagrams | 4.0 |
| Damian Fok | 28.12.2006 | Added new Non-Functional requirements | 5.0 |
| Damian Fok | 04.12.2006 | Added point nr 3 (Team distribution...) | 6.0 |
| Damian Fok | 07.12.2006 | Version approved | 7.0 |

# 1.Introduction

## 1.1Purpose

The main purpose of the project is to increase the quickness of taking orders from clients in hotel software system. Simplification of consumer service is another important point. System is also responsible for safety in hotel (monitoring, registration of entrances and exits).

## 1.2Project Scope

System responsibilities:
- Controlling entrances and exits of customers.
- Controlling reservations and cancellations of reservations.
- Managing clients.
- Monitoring.
- Room management.
- Assigning workers to their jobs, to rooms.
- Managing inspection and conservations of machines.
- Management of dynamic price list on the internet web site.
- Managing internet hotel system (reservations and cancellations).
- Changing prices, changing status of the client
- Video-on-demand (Pay per view) system.

## 1.3References

*www.wikipedia.org*
*www.google.com*

# 2.Requirements

## 2.1Functional requirements

<u>Actors:</u>

- SQL Server Administrator
- System Administrator
- Hotel Manager
- Secretary / Receptionist
- Web application administrator
- System

<u>Storage of Clients data:</u>

Storing personal information:
- Storing Name
- Storing Surname
- Storing Address
- Storing Home phone number
- Storing Cell phone number
- Storing Client Status
- Storing Credit Card number
- Additional information
- History of visits

Storing information about Client visits:
- Information about beginning of a visit
- Information about end of a visit
- Personal likes and dislikes
- Additional information

Storing information about Client entrances for the last 72 hours:
- Information about exiting hotel
- Information about entering hotel
- Additional information
(security requirements)

<u>Storage of Staff data:</u>

Storing personal information:
- Storing Name
- Storing Surname
- Storing Address
- Storing Home phone number
- Storing Cell phone number
- Part-time / half-time / full-time worker
- Responsibilities
- Specializations
- Date of starting job
- Experience
- Additional information

Storing information about Stuff entrances for the last 72 hours:
- Information about exiting hotel
- Information about entering hotel
- Additional information
(security requirements)

Storage data about rooms:

- Storing capacity
- Storing information about installed hardware
- Storing information about purpose / type
- If there are stores information about prices
- Information about standard
- Additional information
- Floor number
- Lobby name
- Free / taken

Storage of partners data:

Storing personal information:
- Storing Name of the company
- Storing job profession
- Storing Address
- Storing phone numbers
- Storing contact person data
- Order information (if there are)
- Additional information

Storing information about supplies (if there are):
- History of supplies
- Date of supply
- Additional information

Management of data:

*Managing clients data:*

    Viewing:
- Browsing
- Searching

    Modifying:
- Adding Clients Data
- Modifying Clients Data
- Deleting clients Data

*Managing Employee data:*

    Viewing:
- Browsing
- Searching

    Modifying:
- Adding Clients Data
- Modifying Clients Data
- Deleting clients Data

*Managing Rooms data:*

    Viewing:
- Browsing
- Searching

    Modifying:
- Adding rooms data
- Modifying rooms data
- Deleting rooms data

- Modifying capacity
- Modifying information about installed hardware
- Modifying information about purpose / type
- If there are modifying information about prices
- Modifying information about standard
- Modifying additional information
- Modifying floor number
- Modifying lobby name

*Managing Partners data:*

Viewing:
- Browsing
- Searching

Modifying:
- Adding Clients Data
- Modifying Clients Data
- Deleting clients Data

*Management of conferences / banquets.*

Viewing:
- Browsing
- Searching

Modifying:
- Adding conferences / banquets data
  - Adding number of guests
  - Adding number of rooms for reservation
  - Adding information about orders
- Modifying conferences / banquets data
  - Modifying number of guests
  - Modifying number of rooms for reservation
  - Modifying information about orders
- Deleting conferences / banquets data
  - Deleting number of guests
  - Deleting number of rooms for reservation
  - Deleting information about orders

Payment Management:

   Confirmation of payments:
   - Connecting with bank
   - Checking account balance
   - Retrieving information about transfers

   Preparing payment reminders.

   Salary Management:
   - Base salary calculation
   - Tax calculation
   - Health insurance calculation
   - Bonuses
   - Standing order establishing (for employee payments)

Preparing and printing reports:

   - Preparing and printing order for supplies
   - Preparing and printing invoices
   - Preparing and printing remaining installments report
   - Preparing and printing Financial Reports
   - Preparing and printing information about clients
   - Preparing and printing information about employees
   - Preparing and printing information about partners
   - Preparing and printing hotel statistics from the last month

Web site management:

   Conference management:
   - Signing up for a conference
   - Cancellation of signing up

   Room Reservation Management
   - Viewing booked rooms
   - Checking for free rooms
   - Making reservation
   - Canceling a reservation
   - Modification of reservations

Other functional requirements:
   - Sending concrete video on client demand (video-on-demand)

## 2.2Non-functional requirements

Requirements related to product:

- System should work with MS Windows XP/2000 operating system.
- Server should work on a system MS Windows 2000 Advanced Server with MS SQL database server.
- Application should work in local area network using TCP/IP protocol
- Database  should be also stored on separated backup server
- Network communication should be based on SSL
- Customer and company module should be based on www application
- Each user should have login and password
- Application should have interactive help system based on HTML
- Both internet system and inside hotel system should work 24 hours a day
- System should work properly under load of 100 users
- Reports should be printed automatically at the end of each day
- System breakdown shouldn't be longer that 1 hour per month
- Terminals of receptionists should be equipped with touch screens
- Time of reading data from database shouldn't be longer than 3s.
- Color scheme of the user interface should be hold in warm and friendly colors.
- Information about clients should be kept in a save method in database.

Requirements related to process:

- System should enable transport of reports to MS EXCEL and PDF formats.
- Invoices should include successive number, client Name and date of drawing up.
- Invoices should include colorful logo of the hotel.

External requirements:

- System should be enable to connect to the Internet in order to download data for upgrade
- System should be able to handle SMTP protocol to send e-mails.

## 3.Team distribution into smaller groups in view of requirements.

| | Project Manager Team | Implementation Team | Progress Analysis Team | Quality Team | Hardware Assistance Team |
|---|---|---|---|---|---|
| **Reports** | ν | ν | ν | ν | ν |
| **Planning** | ν | | ν | | |
| **Requirements Analysis** | | | ν | | |
| **Design** | | ν | | | |
| **Implementation** | | ν | | | |
| **Testing** | | ν | | | ν |
| **Integrity Tests** | | ν | | | |
| **Hardware Requirements** | | ν | | | ν |
| **Hardware Configuration** | | | | | ν |
| **Work Progress Analysis** | | | ν | | |
| **Formalization** | | | | ν | |
| **Verification** | | | | ν | |
| **Real Time Analysis** | | ν | | | |
| **Efficiency Analysis** | | ν | | | |
| **Test and Procedure Verification** | | ν | | ν | |
| **State reports** | ν | | | | |
| **Quality Analysis** | | | | ν | |

## a) Project Manager Team

| Role | Responsibilities |
|---|---|
| Adam Bondarowicz - Project manager | Responsible for successful business outcome of the project staffing, acquiring resources for the project, personnel issues, top level work assignments, and client interaction. He is a top decision maker on the project, but normally defers technical decisions to the appropriate technical lead. Resolves disputes between project participants. |
| Michał Le Ngoc - Control manager | Controls information flow, communication in the team and finished tasks. He makes reports about progress and gives it to the Project manager |
| Henryk Sienkiewicz - Planning and tracking manager | Direct overall flow of technical work on the project. Directly responsible for project planning and overseeing the execution of work breakdown, estimation, scheduling and tracking. |
| Damian Fok - Requirements Manager | In charge of defining, maintaining and tracing product requirement. Ensures proper end user documentation is developed from the requirements. |

## b) Implementation Team

| Role | Responsibility |
|---|---|
| Mirosław Dąbrowski - Implementation chief | Responsible for construction, integration, product builds, development environment and deployment |
| Ewa Kobayashi - Development Engineer | Responsible for construction and verification of source code and related documentation |
| Krzysztof Mendyk - Development Engineer | - Responsible for creating a databases tables<br>- Fill database with data<br>- Creating users<br>- Adding privileges<br>- Database tuning<br>- Making basic tests and corrections |
| Adam Mickiewicz - Development Engineer | - Creating Project modules |
| Bolesław Prus - Development Engineer | - Certification management |
| Brad Pitt - Development Engineer | - Payment management |

## c) Hardware Assistance Team

| Role | Responsibility |
|---|---|
| Mirosław Dąbrowski - Administration manager | - Hardware and software installation<br>- Moving software<br>- Customer training<br>- Administrators training<br>- Databases fill<br>- Supervision system using<br>- Privileges giving<br>- Permissions giving |
| Majkel Dżekson - Conservator | - improvement modifications<br>- better modifications<br>- adjusting modifications<br>- System stabilization defining<br>- Hardware and software defining |
| Juliusz Słowacki - Administrator | - Configuring security<br>- Maintaining Servers and Data<br>- Making backup files<br>- Maintaining and restoring database |
| Snoop Dogg - Administrator | - Create a new Database<br>- Create simple passwords for every team members<br>- Editing the context Search file |

## d) Quality Team

| Role | Responsibility |
|---|---|
| Ryszard Tramwajarz - quality control chief | - Certification of systems before sending it to the client<br>- Forcing standards of gathering and data processing<br>- Elaborate standards concerning system architecture and implementation practices<br>- Testing new or modified software<br>- Training |
| Anthony Hopkins – QA Engineer | - Checks if project is well organized, with appropriate life cycle<br>- If Problems are registered and reaction on these problems is properly |
| Gabriel Tymbark – QA Engineer | - Checks if members of the team have got their tasks and responsibilities defined<br>- If staff is well trained according to the project |
| Krystyna Janda – QA Engineer | - Checks Plans among the documentation are implemented |
| Cezary Pazura – QA Engineer | - Checks if documentation contains everything what is necessary |
| Jenna Jamenson – QA Engineer | - Checks if documentation and coding standards are observe |

| | |
|---|---|
| Pamela Anderson – QA Engineer | - Checks if standards, conventions and practices are observe<br>- If software is stored in controlled bibliotheca<br>- If software is stored in protected places with safe way<br>- If software from outside suppliers have proper standards. |
| Bruce Willis – QA Engineer | - Checks if tests are rigorous observe<br>- If projects uses suitable methods, techniques and tools |
| Johnny Bravo – QA Engineer | - Checks if Data measurement is gathered and uses to improve processes and products |
| Harry Potter - QA Engineer | - Checks if inspections and audits are carry through and properly organized |

## e) **Progress Analysis Team**

| Role | Responsibility |
|------|----------------|
| Michał Szymerski - Documentation Chief | - Coordinates and controls the process of creating the technical, user and administrator documentation |
| Andrzej Golota - Technical Documentation Engineer | - Prepares the technical documentation and ser manual |
| Kot Felix - User Documentation Engineer | - Responsible for work progress analysis, requirements analysis and planning |
| Andriej Szewczenko - Administrator Documentation Engineer | - Prepares the administrator manual |

# 4.Use Case Diagram