X-Reserve User Guide

By Pod 1

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# Introduction (Sean)

## Purpose

## Scope

# System Description (Arash)

## Key Features

X-Reserve offers scalable solution for managing hotel reservations regardless of the hotel type. It provides a simple and easy to use interface for guests, hotel managers and hotel staff. Anyone with Internet access a valid credit card can create an account, view available rooms within a date range, and instantly make reservations. The hotel staff can check-in/out a guest and process their bill with only a few clicks. Also, hotel managers can benefit from a wide range of features such as creating rooms, creating accounts with different roles, and viewing yearly or monthly reservation reports.

## Environment

X-Reserve is developed using Spring Framework which is an open source application framework for the Java platform. This enables the product to be compatible with various operating systems such as Mac, Windows and Linux. Although Spring Framework does not provide any specific programming model, it is modular. Spring has layered architecture, meaning that it is possible to use any of it in isolation, and yet its architecture stays consistent. It allows integrations with many modules or applications such as different databases or reporting applications. X-Reserve can easily be deployed and setup in less than an hour. The Controller is responsible for handling requests from the presentation layer.

## System Components

X-Reserve consists of different components or modules to allow scalability of this product. The system is made of three different layers which provide a consistent and reliable architecture. The Controller is responsible for handling requests from the presentation layer (eg. login, view report, view room list). Theses request are passed to DAO (Data Access Object) which lies within the business layer. DAO generates queries based on the user or system request, executes them on the database, and returns the results to the Controller. In addition to these main components, other parts such as security modules and validators provide confidentiality and integrity for the hotels’ data.

# Step by Step Instructions

## Customers (David)

### Register new account

### Edit profile

### Search available rooms (make sure to mention attributes)

### Make reservation

## Staff (David)

### Check in

### Check out

## Admin (Stanley)

### Manage room type

### Manage room

### Manage user

### Manage chargeable items

### View reports (Arash)