**REVISION HISTORY**

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
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| 09.11.2016 | 0.01 | Software Design Description added for Model component. (3.1) | Mehmet Melih Arıcı |
| 9.11.2016 | 0.02 | Software Design Description added for View component. (3.2) | Eren Balatkan |
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# **Introduction**

Brief description of the software system and the purpose of the document.

This document describes the design of the XXX software system.

## ***References***

### **Project References**

|  |  |  |
| --- | --- | --- |
| # | Document Identifier | Document Title |
| [R1] | ID | Add your documents references.  One line per document |

# **Software Architecture overview**

Describe here the top level software components and their interactions/relationships.

Use UML diagrams.

# **Software design description**

Describe each top level package/component of your software in the following subsections. The number of sub-sections (3.1, 3.2, … etc.) depends on the number of packages/components in your architecture diagram.

## ***Component 1***

Model

### **Component interfaces**

Public methods;

GetBuildingID

GetRoomID

GetUserID

GetReservationID

getCapacity

### **Component design description**

### **Workflows and algorithms**

### **Software requirements mapping**

SRS-SQ-RMS-020.0 – Database connection

SRS-SQ-RMS-030.0 - Database connection

SRS-SQ-RMS-040.0 – Room Reservation

SRS-SQ-RMS-050.0 – Room Reservation Cancellation

## ***Component 2***

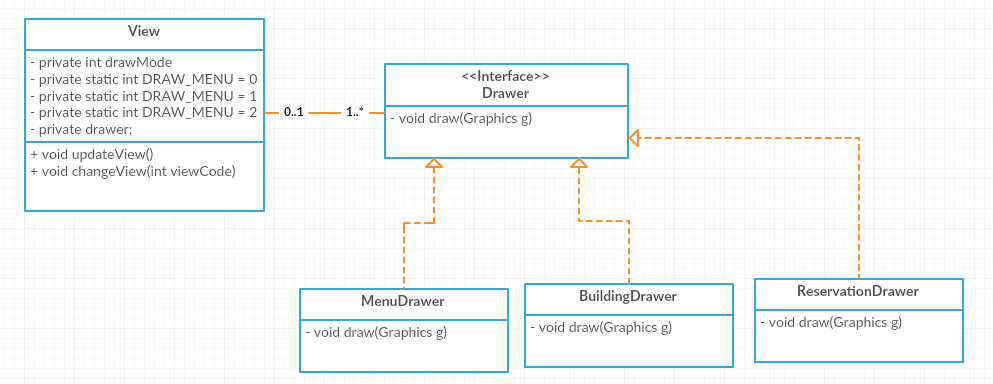
View

### **Component interfaces**

void updateView()

void changeView(int viewCode)

### **Component design description**



### **Workflows and algorithms**

Use sequence diagrams to show the workflows of components/packages/classes inside the component.

**updateView:** Requests fresh data from controller and re-draws the frame according to the new data

**changeView:**  This method is called by the controller to tell the view what it is going to draw ( Menu, Building , etc..)

### **Software requirements mapping**

SRS-SQ-RMS-040.0 – Room Reservation

SRS-SQ-RMS-050.0 – Room Reservation Cancellation

## ***Component 3***

Repeat the pattern for each component.

### **Component interfaces**

Describe the interfaces of the component and input output data

### **Component design description**

Describe the design of the component, Use package diagrams and/or class diagrams to show the links between sub-components/sub-packages and or classes inside the component.

### **Workflows and algorithms**

Use sequence diagrams to show the workflows of components/packages/classes inside the component.

Describe algorithms, if possible. An algorithm may be described outside this document, in this case, add the reference to that document.

### **Software requirements mapping**

List the SRS requirements handled by this component

# **COTS Identification**

List external software components/libraries that your system relies on, if there are any.

Example:

COTS (commercial of the shelf) libraries used in XXX are the following:

* foo.jar, version id, download URL, License type,
* bar.jar, version id, download URL, License type,