

CASE STUDY



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CASE STUDY

Creating a Voucher Management Module to generate Unique Vouchers for the various Campaigns of Hotels

Business Engagement Model

Off-Shore Dedicated Resource Model

Client Profile

The client is product based company in US, and building solutions in Hospitality Domain. Their core product is CRS (Central Reservation System).

Business Need

Client was looking to develop and integrate a Voucher Management module in CRS using Struts-Spring-Hibernate, JQuery, JQGrid, JSON and MySQL as Backend. He was also looking for specific features as below....

- Generate Unique Voucher as per Campaign request for each Hotel
- Visualize all the details using grid component
- Excel Reporting for Campaigns and vouchers
- Wants to enhance Application in future for integrating different features.
- Complex validations as per business work flows.

Challenges

- Generate Unique voucher numbers for each hotel
- To maintain all the details (Insert, update, delete) using JQGrid component.
- To integrate module with existing application.

Solution Feature

- We have used existing CRS product technologies like Struts, Spring, Hibernate, JQuery, JQGrid, JSON, Ajax & Java-script with JSP to design and to achieve cross browser compatibility.
- We have used lightweight component JQGrid, to manipulate records in the popup box.
- We have used MVC Architecture to achieve requirement.

Benefits

- User can easily create the Campaign and under this campaign, they can generate the vouchers.
- Client can generate the voucher for specific Campaign for specific date range.
- Every voucher will generate web URL to use it at the time of Booking Reservation.
- Module is designed in such manner that, any time in future it can be extend easily.

Technology

- Struts, Spring, Hibernate, Spring REST API
- JQuery 1.7.1 & 1.8.2, JSON, Ajax, JQGrid
- MySQL
- Various Online & Offline tools for rapid development of Java-script & JQuery & CSS Designs.

Page-1: List all campaigns with all necessary operations on them.

Voucher Management

Campaign Name: Voucher Name: Rate Plan Name: Valid Date(mm/dd/yyyy):

Quickly data filter component

Display enabled or disabled data in the list

Display live or expired Campaign in the list

Voucher Campaign Details

We can insert, update or delete by this menu

Voucher Campaign Name	Rate Plan	Number Of Voucher	Max Booking Per Voucher	Validity Period		Actions	Last Update On
				Start Date	End Date		
1 Campaign1	Bed & Breakfast Package	50	1	09/10/2014	09/15/2014	Voucher Numbers Enabled	Sep 03, 2014 03:08:09
2 Campaign2	Bed & Breakfast Package	10	5	09/15/2014	09/23/2014	Voucher Numbers Enabled	Sep 03, 2014 03:55:56

List of available campaign

Pagination menu

This link will generate the number of vouchers for the campaign.

We can make campaign as enabled or disabled. Once we disabled the campaign, its all vouchers will be disabled.

[Export selected records CSV File](#) **We can export campaign list report in excel file.**

View 1 - 2 of 2

Page-2: To create new campaign using jqgrid popup feature.

Voucher Management

Campaign Name: Voucher Name: Rate Plan Name: Valid Date(mm/dd/yyyy):

Add New Campaign Detail

Voucher Campaign Name:

Rate Plan:

Number Of Voucher:

Max Booking Per Voucher:

Start Date:

End Date:

Number Of Voucher	Max Booking Per Voucher	Validity Period		Actions	Last Update On
		Start Date	End Date		

Page 0 of 0 No records to view

[Export selected records CSV File](#)

Page-3: To display number of vouchers generated per campaign along with other details.

Voucher URLs

[Export as CSV File](#)

Generate Report of all information

Voucher Campaign: Campaign2
Rate Plan: Bed & Breakfast Package
Validity Period: September 15, 2014 to September 23, 2014

We can update number of vouchers to generate

Number of Vouchers	Max Booking per Voucher	Number of Reservations
<input type="text" value="10"/> Update	<input type="text" value="5"/> Update	

we can update maximum booking for single voucher

#	Unique Voucher Number	Booking URL	Number of Reservations Booked	Actions
1	93YM6RNRTG	https://hotel.domain.com/voucher?93YM6RNRTG	-	Disabled
2	93OI35M225	https://hotel.domain.com/voucher?93OI35M225	-	Disabled
3	93QWV9RDSX	https://hotel.domain.com/voucher?93QWV9RDSX	-	Disabled
4	93UFC450S6	https://hotel.domain.com/voucher?93UFC450S6	-	Disabled
5	93KO3SAIUY	https://hotel.domain.com/voucher?93KO3SAIUY	-	Disabled
6	93QVCR7MHJ	https://hotel.domain.com/voucher?93QVCR7MHJ	-	Disabled
7	93MBMVQ6B5	https://hotel.domain.com/voucher?93MBMVQ6B5	-	Disabled
8	9313AEC6KJ	https://hotel.domain.com/voucher?9313AEC6KJ	-	Disabled
9	93NM7W6R75	https://hotel.domain.com/voucher?93NM7W6R75	-	Disabled
10	93B2UNFBN6	https://hotel.domain.com/voucher?93B2UNFBN6	-	Disabled

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