

Case Study - 6

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B.Tech Semester 5

WELCOME TO WAVE COTTAGE...LOGIN

WELCOME TO WAVE COTTAGE

USERNAME:
PASSWORD:

FOR NEW USER:-

FIRST NAME:
LAST NAME:
ADDRESS:
PIN CODE:
COUNTRY/STATE:
DATE OF BIRTH:
EMAIL ID:
PASSWORD:
CONFIRM PASSWORD:

SCREEN 1: LOGIN

Function point calculation

Measurement parameter	Count	Weighing factor (simple)	Product (count* weighing factor)
User input	11	3	33
User output	3	2	6
Enquiries	0	0	0
Files	0	0	0
External interface	0	0	0
Total			39

Formula: FP = Count Total * [0.65 + 0.01*f]

37.05

S no	Question	Score (0 to 5)
Q1)	Does the system require reliable backup and recovery?	3
Q2)	Are data communication required?	1
Q3)	Are there distributed processing functions?	1
Q4)	Is the performance critical?	1
Q5)	Will the system run in an existing heavily utilized operational environment?	0
Q6)	Does the system require online data entry?	2
Q7)	Does the online data entry require the input transaction to be built over multiple screens/operations?	2
Q8)	Are the masters files updated online?	3
Q9)	Are the input/output/files/enquiries complex?	2
Q10)	Is the internal processing complex?	4
Q11)	Is the code designed to be reusable?	3
Q12)	Are conversions and installation included in the design?	1
Q13)	Is the system designed for multiple installations in different organizations?	3
Q14)	Is the application designed to facilitate change and ease of use by the user?	4
Total		30

WELCOME TO WAVE COTTAGE...ONLINE RESERVATION

WELCOME TO WAVE COTTAGE

HOTEL:
TYPE OF ROOM:
NUMBER OF ROOMS:
NUMBER OF DAYS:
EXPECTED CHECK IN DATE:
EXPECTED CHECK OUT DATE:
PACKAGE/OFFER:
ADVANCE PAYMENT DUE: INR

SCREEN 2: Online Reservation

Measurement parameter	Count	Weighing factor (simple)	Product (count* weighing factor)
User input	8	1	8
User output	2	1	2
Enquiries	0	0	0
Files	0	0	0
External interface	1	1	1
Total			11

Formula: FP = Count Total * [0.65 + 0.01*f]

10.45

WELCOME TO WAVE COTTAGE...ONLINE TRANSACTION

REQUEST FOR THE FOLLOWING DETAILS

HOTEL: WAVE COTTAGE, GDA
TYPE OF ROOM: SUITE
NUMBER OF ROOMS: 1
NUMBER OF DAYS: 2
EXPECTED CHECK IN DATE: 05.04.2012
EXPECTED CHECK OUT DATE: 07.04.2012
ADVANCE PAYMENT DUE: 27000 INR

TRANSACTION DETAILS

TRANSACTION ID: 000000001011993
TYPE OF CARD: CREDIT CARD
COMPANY: MASTER CARD
CARD NUMBER:
NAME ON CARD:
EXPIRY: MONTH YEAR
CVV:

☐ I agree to the Terms and Conditions...

SCREEN 3: Online Transaction

Measurement parameter	Count	Weighing factor (simple)	Product (count* weighing factor)
User input	7	3	21
User output	11	4	44
Enquiries	0	0	0
Files	0	0	0
External interface	1	1	1
Total			66

Formula: FP = Count Total * [0.65 + 0.01*f]

62.7

WELCOME TO WAVE COTTAGE...CHECK IN / CHECK OUT

ALREADY HAVE AN ACCOUNT?
ALREADY HAVE A RESERVATION?

If not, Enter the Following details for a new Customer:

CONFIRMATION NO:
NAME:
ADDRESS:
CITY:
PIN CODE:
CONTACT NUMBER:
CHECK IN DATE: CHECK IN TIME:
ROOM TYPE:
NUMBER OF ROOMS:
NUMBER OF OCCUPANTS:
NO OF ADULTS: NO OF CHILDREN:
CHECK OUT DATE: CHECK OUT TIME:
PACKAGE OFFER:
PAYMENT MODE:
ADVANCE PAID: ☐ YES ☐ NO

SCREEN 4: Check in / Check out

Measurement parameter	Count	Weighing factor (simple)	Product (count* weighing factor)
User input	17	4	68
User output	3	2	6
Enquiries	0	0	0
Files	1	1	1
External interface	0	0	0
Total			75

Formula: FP = Count Total * [0.65 + 0.01*f]

71.25

WELCOME TO WAVE COTTAGE --- EMBEDDED SYSTEM

ROOM NUMBER: 101

REQUEST FOR:-

DRINKS AND BEVERAGES -

	QUANTITY	QUANTITY
FRUIT JUICES	Mango 0	Mango 0
ALCOHOLIC	Wine 0	Wine 0
SOFT DRINKS	Cola 0	Cola 0
SHAKES	Vanilla 0	Vanilla 0

FOOD/MEAL

	QUANTITY	QUANTITY
SNACKS	Cutlet 0	Cutlet 0
APPETIZERS	Shahi Pan 0	Shahi Pan 0
SWEET DISH	Mousse 0	Mousse 0

ROOM SERVICE - Laundry

LUXURY SERVICES - Car

ANY QUERY/SUGGESTION/REQUEST REGARDING ORDER:-

SUBMIT ORDER MODIFY PREVIOUS ORDER CANCEL

SCREEN 5: Embedded System

Measurement parameter	Count	Weighing factor (simple)	Product (count* weighing factor)
User input	33	2	66
User output	3	1	3
Enquiries	0	0	0
Files	0	0	0
External interface	0	0	0
Total			69

Formula: FP = Count Total * [0.65 + 0.01*fi]

65.55

WELCOME TO WAVE COTTAGE --- ADMINISTRATOR FUNCTIONS

ENTER CONFIRMATION NUMBER OF CUSTOMER: 13091992

FOR MODIFICATION OF CUSTOMER DETAIL OF GIVEN CONFIRMATION NUMBER

NAME: ADDRESS: CITY: PIN CODE: ROOM TYPE: NO OF ADULTS: NO OF CHILDREN: CHECK IN DATE: CHECK OUT DATE: CHECK OUT TIME: CHECK IN TIME: PACKAGE OFFER: ADVANCE PAID: YES NO: PAYMENT MODE: YES NO

FOR SECURITY AND EDIT PASSWORD

USERNAME: administrator ENTER CURRENT PASSWORD: ENTER NEW PASSWORD: ENTER CONFIRM PASSWORD: CONFIRM CANCEL

FOR CANCELLATION OF RESERVATION

WANT TO CANCEL RESERVATION? YES NO

FOR ANY ROOM RELATED MODIFICATION

TOTAL ROOMS	CURRENT RATE	NEW RATE	TOTAL ROOMS	OCCUPIED
REGULAR	7500 INR	0 INR	30	25
DELUXE	5000 INR	0 INR	40	30
KING SIZE	10000 INR	0 INR	20	5
SUITE	30000 INR	0 INR	10	5

PURPOSE: BLOCK REASON FOR B/R: ENTER ROOM NUMBER: 101 YES NO

FOR FOOD RELATED MODIFICATION

MEAL TYPE: MEAL ITEM: CURRENT PRICE: 0 INR WANT TO CHANGE RATE? NEW PRICE: 0 INR WANT TO CREATE NEW ITEM? MEAL TYPE: ENTER NEW MEAL ITEM: PRICE: 0 INR WANT TO DELETE ANY ITEM? ENTER MEAL ITEM: YES NO

SAVE THE ABOVE CHANGES CANCEL

SCREEN 6: Administrator Functions

Measurement parameter	Count	Weighing factor (simple)	Product (count* weighing factor)
User input	49	2	98
User output	10	2	20
Enquiries	0	0	0
Files	0	0	0
External interface	0	0	0
Total			118

Formula: FP = Count Total * [0.65 + 0.01*fi]

112.1

WELCOME TO WAVE COTTAGE --- BILL GENERATION

Bill number: 130915019293

Customer ID: 123456789

Customer Name: ABC

Check in Date: 12-03-2012

Check out date: 15-03-2012

Total Bill = Basic Room Charge + Additional Charge + Embedded System Services Charge + Taxes

= 6500 + 1000 + 1500 + 550

= 9550 INR

Payment Mode: CREDIT CARD

THANK YOU FOR YOUR VISIT HERE!!! COME AGAIN!!!!!! D

WAVE COTTAGE IS HAPPY TO SERVE YOU...

SCREEN 7: Bill Generation

Measurement parameter	Count	Weighing factor (simple)	Product (count* weighing factor)
User input	8	5	40
User output	1	1	1
Enquiries	0	0	0
Files	0	0	0
External interface	0	0	0
Total			41

Formula: FP = Count Total * [0.65 + 0.01*fi]

38.95

Object Points	No. of Screens * No. of Instances + No. of Reports * No. of Instances
	7 * 77 + 1 * 77
	616
NOP	OP * ((100 - %reuse)/100)
	616 * ((100 - 40)/100)
	369.6
PROD	NOP/ Person-month
	369.6 / 13
	28.43
Effort	NOP/PROD
	369.6 / 28.43
	13.0007