

System Analysis and Design Project Assignment (25%-50%)

	PROGRAM STUDI : Akuntansi FAKULTAS : Ekonomi dan Bisnis UNIVERSITAS ANDALAS												
MAJOR GROUP P	OJECT ASSIG	NMENT											
SUBJECT	System Analys	System Analysis and Design											
CODE	EKA304	POINT	3	SEMESTER	5								
LECTURES	Amsal Djunid	•		· · · ·									

PROJECT TITLE : Designing reservations and occupation system for hotel

Learning Objectives

After doing the PROJECT students are expected to be:

- 1. able to work in a team
- 2. having a good communication skill both oral and written
- 3. having strong character, attitude and integrity (*religious, nationalist, ethically and moral responsible, socially responsible, self-confidence, and independent*)
- 4. able to adapt current and future issues in information system technology
- 5. able to determine information requirements
- 6. able to design database
- 7. able to design information systems input and output
- 8. able to use the appropriate system development methodologies and techniques

Project Description

Data from initial data gathering

The management of an hotel plans to develop computer systems for administration of guests, rooms and room reservation. The management expects the following information from the new systems:

- current guests and their rooms
- unoccupied (empty) rooms every days
- reserved and available rooms for one year in the future
- the previous transactions with each guests
- check-in and check-out data for preparing invoices, and invoices are expected to be generated automatically.

The management wants us to advise for others information needs.

During your initial investigation you also get the letter from the police department required the hotel to report the foreign gests everyday. The report should contain name, nationality, passport number, check-in date.

Additional information

Every guest got ID Card with the unique number, the frequent guests gets discount and other souvenirs.

Project Assignment Requirements

In group of 3 or 4, students are required to conduct field researches for further data gathering to:

1. Prepare project definition

- 2. Prepare context and functional diagram
- 3. Prepare Entity model : a) Conceptual entity model and b) Physical Database Design Model
- 4. Design the structure of tables, using the following form. Table Name

Field Name	Field Type	Field Length	Descriptions

- 5. Design the input screen layout for input data, retrieve data and others
- 6. Design reports and others output include ID Card or Discount Card for frequent guest
- 7. Prepare List of hard ware and soft ware needs
- 8. Prepare Time schedule for construction and implementation
- 9. Develop the systems PROTOTYPE using the MS Access or other DBMS.
- 10. Presentation and report submitting

OUT PUT

- 1. Recommended Information System Design
- 2. Working System Prototype

GRADING POLICY:

- a. Information System design (60%)
- b. System prototype (5%)
- c. Report writing (25%)
- d. Presentation (10%)

Time Schedule

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No	Task		Week																
			1	2	3	4	5	6	7	8	9	1	1	1	1	1	1	1	1
												0	1	2	3	4	5	6	7
1.	Define project																		
	objectives																		
2.	Data gathering																		
3.	Prepare																		
	Context																		
	Diagram and																		
	Functional																		
	Diagram																		
4.	Prepare Data																		
	Modelling and																		
	Database Tables																		
	Design																		

	a. Conceptual									
	Entity									
	Model									
	(ERD)									
	b. Physical									
	Database									
	Model									
	c. Design							 		
	Database Tables									
5.	Design the							 		
	screen layout									
	for input data,									
	retrieve data									
	and others									
6.	Design reports									
	and others									
	output include									
	ID Card or									
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	guest	 	-			_				
7.	Prepare List of									
	hardware and									
0	software needs									
8.	Prepare Time schedule for									
	construction									
	and									
	implementatio									
	n									
9.	Develop the									
	systems using									
	the MS Access									
	or other									
10	DBMS.	-+					 			
10	Report Proportion									
11	Preparation						 	 		
11.	Class									
	Presentation	s								

1. System Analysis and Design by Kendal and Kendal (K)(**compulsory**) 2. System Analysis and Design by Whitten etc. (W)

- 3. Information tools for an information Age by Capron and Johnson (C)
- 4. Database processing Fundamentals, Design, and implementations by Kroenkey (Kr)
- 5. Lecture Notes (LN) can be downloaded from <u>amsaldjunid.orgfree.com</u>
- 6. Lecturing video https://youtube.com/playlist?list=PLJs5uiq1HpizAcO0KVDl0FQ5tZMaQ6AkN