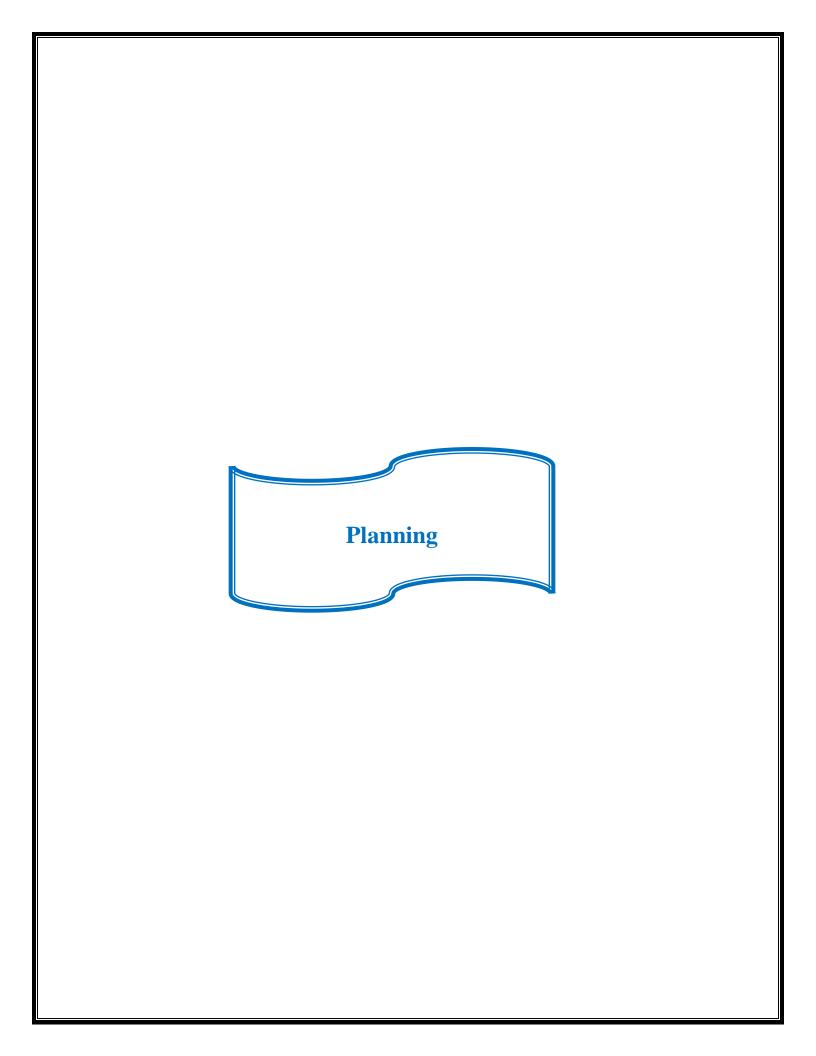
MENOFYIA UNIVERSITY

SYSTEM ANALYSIS & DESIGN PROJECT
SECOND YEAR
2021-2022



جامعة المنوفية **كلية الحاسبات والمعلومات**2021-2022

Hotel



Project Identification

Project Name:

Registration of hotel's guests

Current Problem:

The Hotel needs a system to insert, update and delete the information of its guests.

System Request

System Request—Hotel				
Project Sponsor:	Mr. Mohamed Saad			
Business Need:	 software to save all hotel guests, their room numbers and their accounts. apply rules. 			
Business Requirements:	 Provide on-line access. Capture guests' information. Produce management reports. Broadcast final report. Can work offline. Speed up customer service. Manage guests' profile. More usable. More secure. 			
Business Value:	 Reduce 10% of total cost. Reduce number of employees by 25%. 			
Special Issues or Constraints:	 Deadline 20/10/2022. Network. More security. 			

Feasibility Analysis

Technical Feasibility

- 1. Cloud team is professional team
- 2. Business team is good and more personal
- 3. Security team need to update used technology
- 4. Backend needs to switch from django python to node.js.

Economic Feasibility

- 1. Cost of the cloud server is 2000\$ per year.
- 2. Cost of training the hotel team is 200\$.
- 3. Cost of node.js course is 1000\$.
- 4. Profit of hotel increase by 10000\$ per month.

Organizational Feasibility

- 1. Online authorization is more reliable.
- 2. <u>Using email to receive reports.</u>

Schedule Feasibility

1. The first release will be finished on 1/1/2022

Time Estimation

	Planning	Analysis	Design	Implementation
Standard percentages	15%	20%	35%	30%
Estimated time based on planning time	1.5 months	2 months	3.5 months	3 months

Tasks Identification

Name of Task	Perform feasibility analysis
Start Date	1/9/2021
End Date	4/9/2021
Person assigned to task	Mohamed Hassan
Priority	High
Resources Needed	Microsoft Word
Estimated Time	40 hours
Actual Time	36 hours

Name of Task	Methodology
Start Date	5/9/2021
End Date	7/9/2021
Person assigned to task	Mohamed Badr
Priority	high
Resources Needed	Microsoft Word
Estimated Time	16 hours
Actual Time	13 hours

Name of Task	Task Identification
Start Date	8/9/2021
End Date	10/9/2021
Person assigned to task	Mohamed Mosaad
Priority	High
Resources Needed	Microsoft Word
Estimated Time	20 hours
Actual Time	22 hours

Name of Task	Time estimation
Start Date	8/9/2021
End Date	11/9/2021
Person assigned to task	Mohamed Badr
Priority	Low
Resources Needed	Microsoft Excel
Estimated Time	17 Hours
Actual Time	15 hours

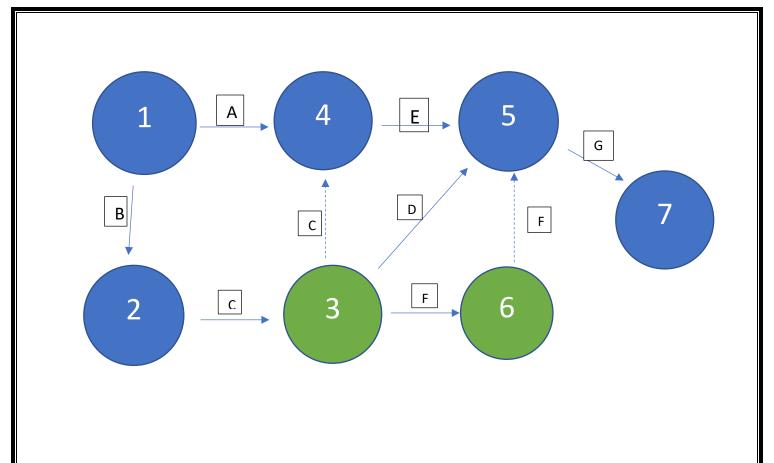
Name of Task	Perform GUI
Start Date	1/10/2021
End Date	1/11/2021
Person assigned to task	Mohamed Hassan
Priority	Medium
Resources Needed	V S Code
Estimated Time	25 days
Actual Time	26 days

Name of Task	Pert Chart
Start Date	8/10/2021
End Date	13/10/2021
Person assigned to task	Mohamed Abd Alaziz
Priority	medium
Resources Needed	Microsoft Excel
Estimated Time	20 hours
Actual Time	17 hours

Name of Task	Gnatt Chart
Start Date	13/10/2021
End Date	15/10/2021
Person assigned to task	Nada El Said
Priority	medium
Resources Needed	Microsoft Excel
Estimated Time	30 hours
Actual Time	29 hours

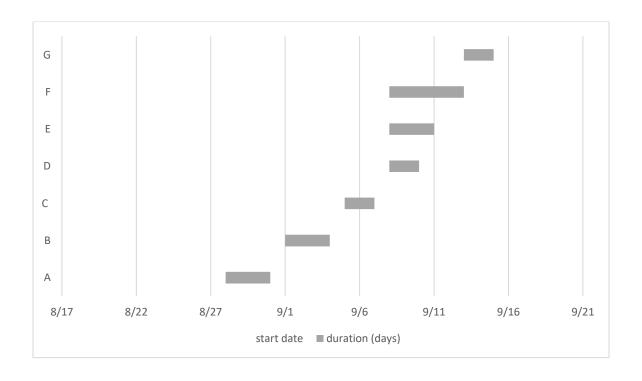
Pert Chart (MS-Project)

Task Id	Task Name		Content	Predecessors	duration
A	System Request	A1 A2 A3 A4	Business need Business requirement Business value Special issues		3
В	Feasibility study	B1 B2 B3 B4	Technical Economic Operational Schedule		3
С	Methodology		Agile(way)	В	2
D	Task Identification	D1 D2 D3 D4 D5	Name of Task Person assigned Priority Estimated time Actual time	С	2
E	Time Estimation			A,C	3
F	Pert Chart			С	5
G	Gnatt Chart			D,E,F	2



Gantt chart (MS-Project)

			Start	End
Α	System Request		28/8/2021	31/8/2021
В	Feasibility study		1/9/2021	4/9/2021
С	Methodology	В	5/9/2021	7/9/2021
D	Task Identification	С	8/9/2021	10/9/2021
Ε	Time Estimation	A,C	8/9/2021	11/9/2021
F	Pert Chart	С	8/9/2021	13/9/2021
G	Gnatt Chart	D,E,F	13/9/2021	15/9/2021



Interview Reports

Interview Report

Person Interviewed: Mr. Mohamed Saad, Senior, Human Resources.

Interviewer: Mohamed Mosaad.

Purpose of Interview:

• This interview aimed to determine the problems encountered by the employees of hotels. More specifically, this study obtained the profile of the respondents in terms of gender, age, civil status, educational attainment, position, and years of service; determined the common problems encountered by the hotel employees with the management and with the customers; sought the significant relationship between the demographic profile of the respondents, and problems encountered with the management and with the customers; established a plan to solve the problems encountered by the hotel employees.

Summary of Interview:

1-Problems Encountered by Hotel Employees with the Management:

- The respondents sometimes encountered economic problems. The problems that the respondents have sometimes encountered and have the highest rank are the management does not have complete equipment and facilities.
- It is closely followed by not giving incentives for extra work and benefits like 13th month pay and interpreted as "sometimes".
- Last in rank is that the respondents never encountered that management are delayed in paying salaries and overtime.

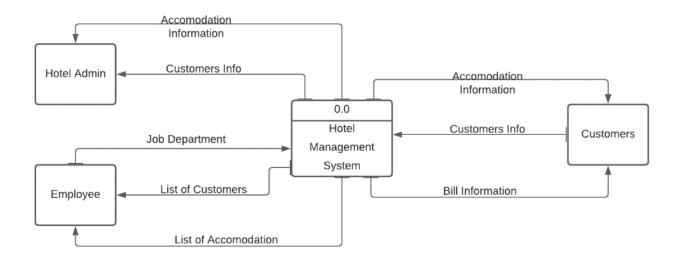
2-Problems encountered by Hotel Employees with the Customers:

- The employee sometimes encounter customers who are too demanding, too messy, too
 impatient and too bossy.
- However, most of the respondents never encountered customers who discriminate the employees.
- This implies that even the employees encountered problems with the customers; the employees did not recognize it as a problem because it is just part of their job.

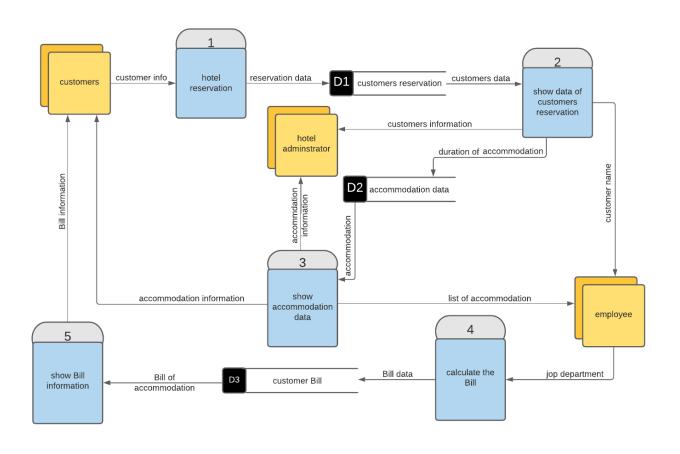
Open Items:

- Develop a plan to solve the problems faced by the hotel employees.
- Solve economic problems and provide complete equipment and facilities.
- Pay salaries on time and overtime incentives.
- Establish rules to eliminate customer chao.

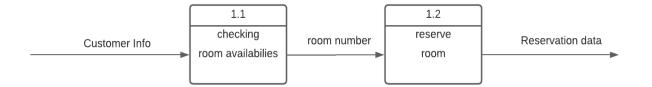
Data Flow Diagram - Context Diagram



Data Flow Diagram – Level/Diagram 0



Data Flow Diagram – Level 1



Normalization

Hotel-	Customer-	employee	name	phone	address	email	Qualification
iD	iD						
1	Cus02	040	helton	056789	Caro	Helton567@gmail.com	Simple booking
							Fast, friendly, first contact
3	Cus02	048	Du and	034982	Tanta	Du528@gmail.com	A variety of excellent food
			ku				and
							drink
5	Cus03	052	Guest	076235	Alex	Guast948@gmail.com	One site service that
			house				delight
9	Cus04	060	milia	098421	Giza	Milia625@gmail.com	Agentively, Cheerful, helpful
							Knowledgeable start
11	Cus05	080	mariote	042001	Luxor	Mariote325@gmail.com	A social lobby
							Referral service
							24 fitness centers
15	Cus06	090	San-susi	024200	Aswan	Sans123@gmail.com	Quick resolution of problems
1							

Hotel-id	Customer-id	Name
1	Cus02	Helton
3	Cus02	Du and ku
5	Cus03	Guest house
9	Cus04	Milia
11	Cus05	Mariote
15	Cus06	Sas-susi

Customer-id	Name	Phone	Address	Email
Cus02	Helton	05678	Caro	Helton567@gmail.com
Cus02	Du and ku	034982	Tanta	Du528@gmail.com
Cus03	Guest house	076235	Alex	Guast948@gmail.com
Cus04	Milia	0984211	Giza	Milia625@gmail.com
Cus05	Mariote	042001	Luxor	Mariote325@gmail.com
Cus06	Sas-susi	024200	Aswan	Sans123@gmail.com

Hottel-id	Employee-id	Name	Address	Qualifications
1	Hattal567@gmail.com	Hattal	Caro	Simple Booking , fast friendly firstcontact
3	Du528@gmail.com	Duandku	Tanta	A variety of Excellent food and Drink
5	Guast548@gmail.com	Guashouse	Alix	One site service that delight
9	Milia625@gmail.com	Milia	Giza	A genuinely cheerful helpful knowledge ablestart
11	Mariote325@gmail.com	Mariote	Luxor	Asocial lobby Referral service 24 fitness centers
15	Sans123@gmail.com	Sas-sus	Aswan	Quick resolution of problems

Entity Relationship Diagram (ERD)

