APPLICATION FOTR RESTURANT

IT Project Managements

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we decide to make an application for resturants and food courts cause we face a problem with delay and waiting for our orders and waiting waiters to take our order

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Project Charter

Project Charter Elements

1-project name ,sponsor, manger and team

2-Project purpose

3- Business case:

4- Project results

5-.Project resources

6- Project Constraints, Assumptions, and Risks

7-Basic Milestone Timeline

Project charter

is similar to a goal but more official and detailed and in line with your company's vision.
A goal narrows the description and sets a deadline.
A project charter formalizes the goal and serves as a map to the destination.

1-Project charter

Project system :   Application for restaurant

Project sponsor :   Edita , orange , xiaomi.

Project manger: Yasser Mohamed

Project team :   Mario Ayman ,Michael Mohsen , Mohamed Osama,

                  Mohamed Thabet.

1. Project purpose :

- all restaurant will upgraded to this application by next year and will make ordering orders more easy in large places like food courts.

2. Business case:

- pen and paper and calculator have served this restaurant since 1980 However, it's time to let it go. We'll be embracing a new application to do the work of waiter but easily and without mistakes.
- Our application will make it easier to order orders without any problem and without any mistakes
- Increase the income for the restaurant as it will save time of delay waiting waiter and any mistake happen will order orders in busy times
- Application will be a big deal with restaurant owners will by the time we will reduce workforce of waiters
- By time our application will be the main application and system in every restaurant and food courts and cafe by the time

3. Project results

- Application in every restaurant and food courts
- easy to reach the customers
- All implementation complete by April 16

4. Project resources

- Budget : $150,000
- Test lab reserved for 16 days
- Consult on of web developers

5. Project Constraints, Assumptions, and Risks

- Project must be completed by 22 April 2022
- project must not exceed $200,000
- Our preferred vendors should be able to deliver our new workstations and servers on time without affecting the project schedule
- Difficult to use at first

6. Basic Milestone Timeline

- 2 days: make a whole view for program and its design to developers and start on its design
- 6 days: finish its design and its front end
- 4 days: finish the application and make a beta version from it and wait for feedbacks
- 4 days : receive the feedback on the application, and fix the problems if exist and launch the program and be ready to use

Project scope statement

the project scope statement.

is one of the most important documents in your planning process

As it detailed description of the work that must be done to deliver the output of a project on time and within the allotted budget.

KPIs

One of the primary jobs of the project scope is to define how the project will be measured for its performance. You'll use key performance indicators (KPIs) to gauge how well the project is meeting the objectives of the scope, and these indicators are usually linked to milestones at the end of project phases, schedule, cost, quality, and other objectives that you, management, or other stakeholders define.

2-Project scope statement

1. Scope description:

- A profitable application
- It's easy by all age group
- When you connect to this app. It will help your Restaurant to display everything you have to make customers use it easily

2. *Acceptance criteria:*

- The application is easy to use
- The application save a lot of time and money as it speed up the kitchen work and the whole service
- It tell the user the accurate cost of his orders
- You can use this app while in home to reserve what you want before going to the restaurant to save time such that once you arrive the restaurant you pick what you want

3. *Deliverables:*

- Displays the menu of most nearby restaurants
- You can order what you want from home
- It help the restaurant owner to organize his restaurant

4. *Exclusion*:

- Payment by application
- The application limits are in the user's city not in the other cities

5. *Constraints*:

- Budget : $150,000
- Time: four months
- Resources: test lab reserved for 10 days

6. *Assumptions*:

- Most restaurants would approve to our application
- Cost accuracy

Work Breakdown Structure

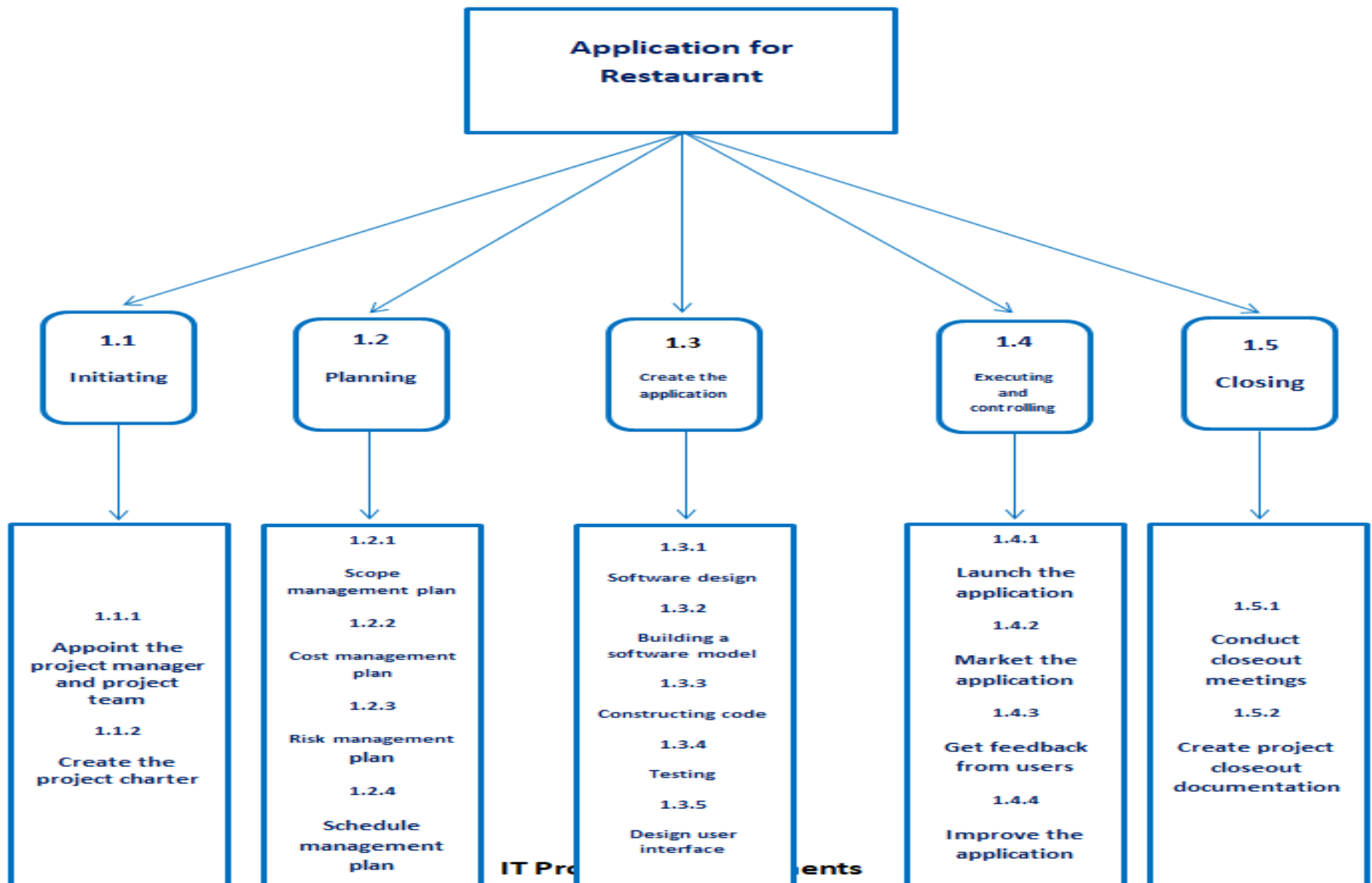## Work Breakdoun structure(WBS)

is a deliverables-oriented collection of project components. It is a categorization and decomposition of the project scope statement. And yes, it's called decomposition because you're breaking down the massive project scope statement into smaller, more manageable components.

Each component is subdivided again and again until you reach the smallest element of the WBS

3-Work Breakdown Structure

Application for Restaurant

1.1 **Initiating**	**1.2** **Planning**	**1.3** Create the application	**1.4** Executing and controlling	**1.5** **Closing**

1.1.1

Appoint the project manager and project team

1.1.2

Create the project charter

1.2.1

Scope management plan

1.2.2

Cost management plan

1.2.3

Risk management plan

1.2.4

Schedule management plan

1.3.1

Software design

1.3.2

Building a software model

1.3.3

Constructing code

1.3.4

Testing

1.3.5

Design user interface

1.4.1

Launch the application

1.4.2

Market the application

1.4.3

Get feedback from users

1.4.4

Improve the application

1.5.1

Conduct closeout meetings

1.5.2

Create project closeout documentation

IT Project **ments**

WBS Dictionary

The WBS dictionary

as its name implies, is a dictionary that defines each work package in the WBS. You'll use the WBS dictionary to clearly identify what the components of the WBS are and how they relate to the project scope.
The WBS dictionary is a great place to define each element of the WBS in simple-to-understand terms that all project team members and stakeholders can reference

WBS

1-Initiating

2-Planning

3-creat application

4-Excuting and Controlling

5-Closing

(lets see its WBS dictionary)

Iniciating

1- Appointing the project manager and the project team

2- Creating the project charter

Planning

1- Creating the scope management plan

2- Creating the cost management plan

3- Creating the schedule management plan

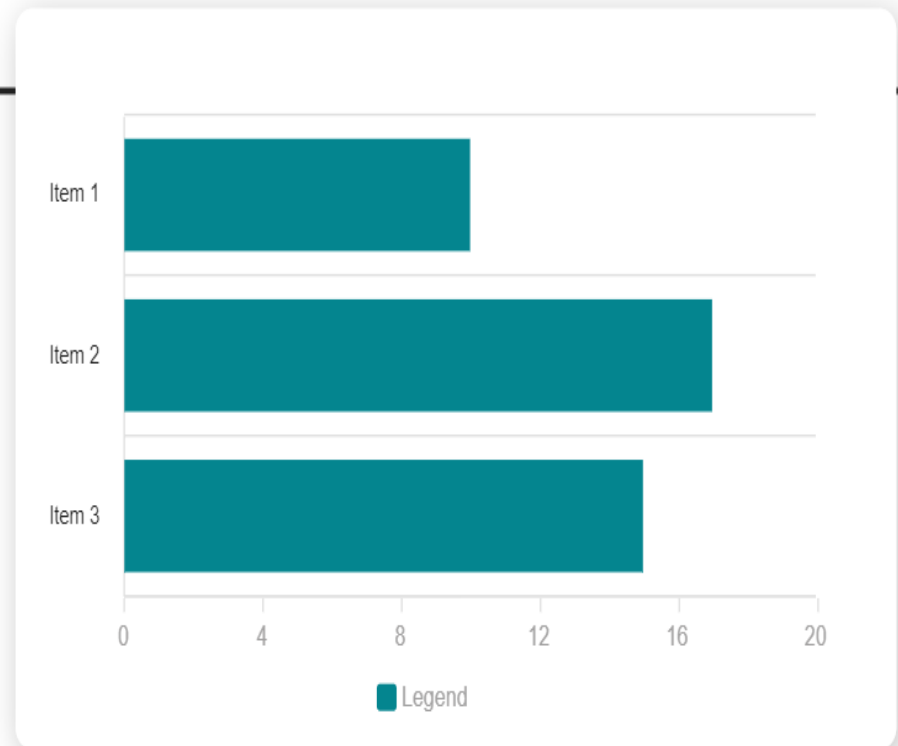4- Creating the risk management plan

Creating the applicatin

1- Design the application

2-Build a model of the software

3-Test the software
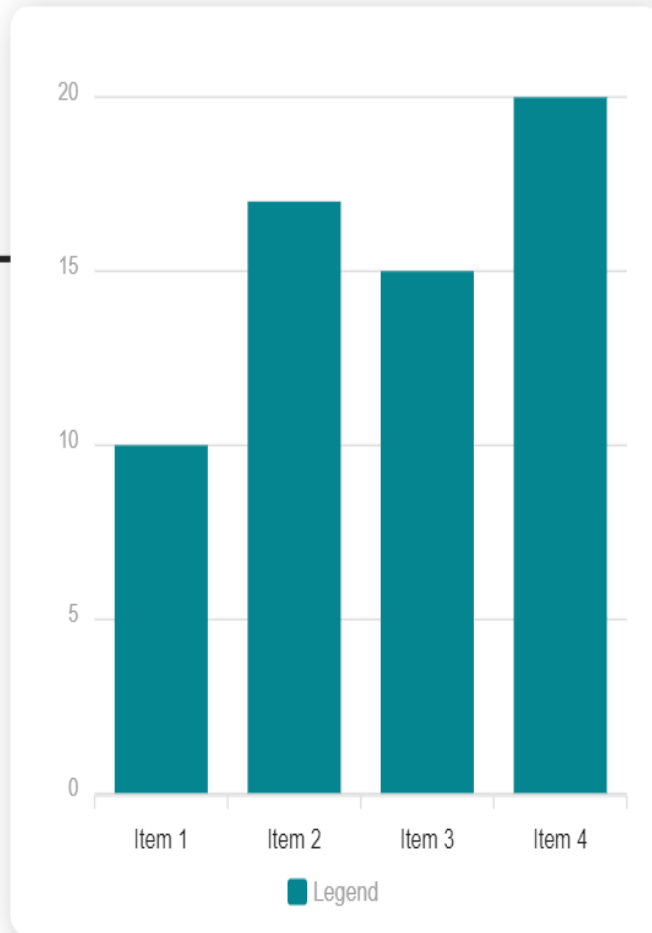
4-Design user interface

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4.4

Executing and controlling

1-Launch the application
2-Market the application
3-Get feedback from users
4-Get feedback from users

Closing

1-Conducting closeout meetings

2-Project closeout report

Roles and Responsibilities Matrix

Roles and Responsibilities Matrix

is a method to identify all of the roles within a project and the associated responsibilities to the project work. This matrix is an excellent way to identify the needed roles of the project participants, identify what actions they'll need in the project and determine roles to complete the identified responsibilities.

Name tasks	Project manager	Project sponsor	Application Developer	ZenWorks Expert	Technical architect	Designer	Network Engineer	Financial Expert
Create the project	A	R	C		P	P	P	R
Do a feasibility study for the project	A	R						C
Program design			R		R	C		
Test the project system	R	R	P	C	P	P	P	
Choose a staff For the project	A	P						R
Install the application on devices	R			C	C			

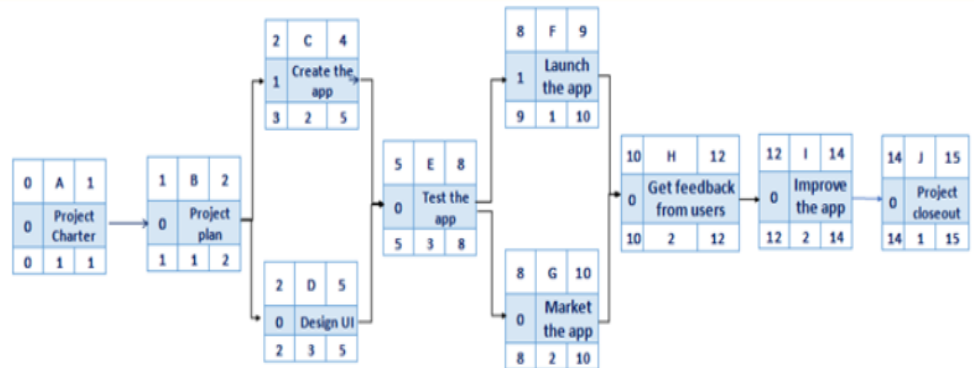A = Approves   P = Participant

R = Reviews   C = Creator

Project Network

A project network diagram

is a graph that displays the order in which a project's activities are to be completed. Derived from the work breakdown structure, the terminal elements of a project are organized sequentially based on the relationship among them.

Resource constrained project

ID	RES	DUR	ES	LF	SL	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	4	1	0	1	0	4																
B	4	1	1	2	0		4															
C	3	2	2	5	1				3	3												
D	1	3	2	5	0				1	1	1											
E	4	3	5	8	0						4	4	4									
F	2	1	8	10	1									2								
G	2	2	8	10	0									2	2							
H	2	2	10	12	0											2	2					
I	2	2	12	14	0													2	2			
J	2	1	14	15	0															2		
Total resource load						4	4	4	4	1	4	4	4	4	2	2	2	2	2	2	0	
Resource available						4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	

Resource constrained Schedul

Schedule simulation can be used to estimate project duration. In addition, it can measure how much a task's scheduling will influence project duration. Two such measures are a task's criticality and finish time correlation. Criticality measures the likelihood that a task will appear on a critical path. Finish time correlation measures the relation between a task's finish time and the project schedule's finish time.
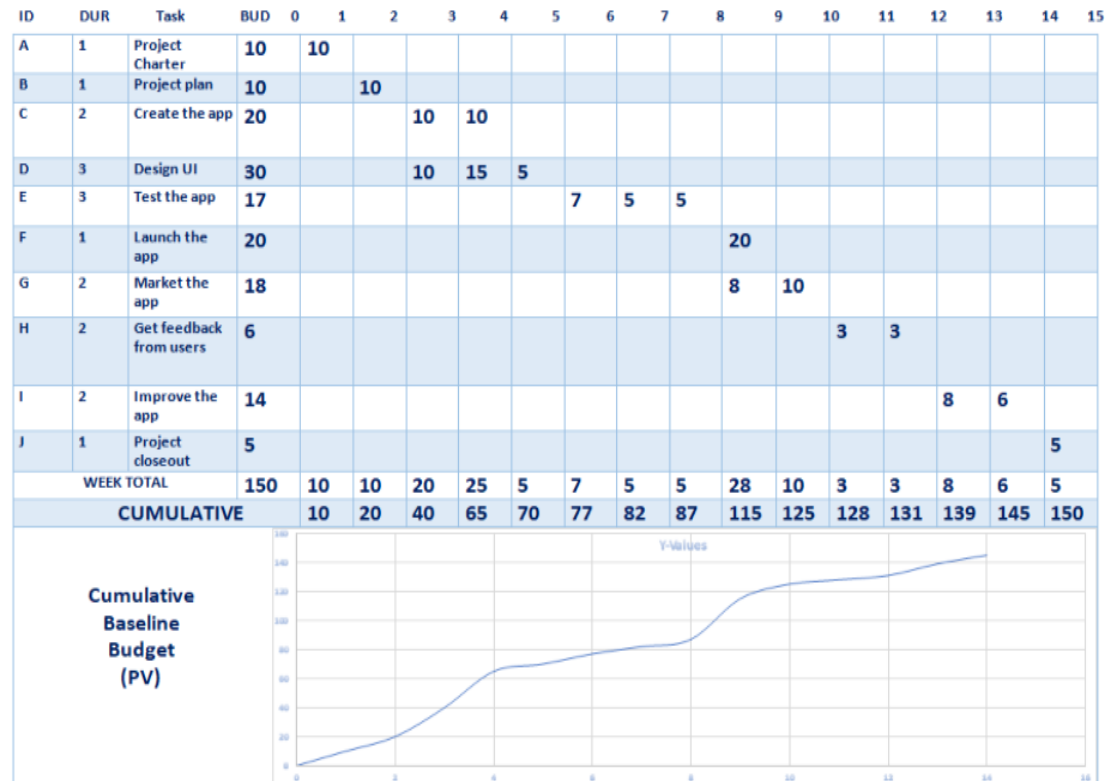
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Time-Phased Budget Baseline

Baseline budget

is a time-phased plan which includes the estimates of all the direct and indirect costs. This can be used as a base for all future activities and also as a performance and project analysis tool. Baseline provides estimates of duration, revenue and spending.

ID	DUR	Task	BUD	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A	1	Project Charter	10	10															
B	1	Project plan	10		10														
C	2	Create the app	20			10	10												
D	3	Design UI	30			10	15	5											
E	3	Test the app	17						7	5	5								
F	1	Launch the app	20									20							
G	2	Market the app	18									8	10						
H	2	Get feedback from users	6											3	3				
I	2	Improve the app	14													8	6		
J	1	Project closeout	5															5	
		WEEK TOTAL	150	10	10	20	25	5	7	5	5	28	10	3	3	8	6	5	
		CUMULATIVE		10	20	40	65	70	77	82	87	115	125	128	131	139	145	150	

Cumulative Baseline Budget (PV)

Risking Management and Monitoring

Risks

is any unexpected event that can affect your project — for better or for worse. Risk can affect anything: people, processes, technology, and resources. An important distinction to remember is that risks are not the same as issues

Monitoring

is the process of keeping a close eye on the entire project management life cycle and ensuring project activities are on the right track. The success of a project depends on a clearly defined structure. ... Project monitoring is all about comparing actual performance to the goals you set.

9- Risking Management and Monitoring

1-Risks

- **Risk of security breaches**
- **Risk of project to produce results that are inconsistent with the project specification**
- **Error in cost estimation commonly**
- **Risk of unplanned scheduling conflicts like events cause the project to be delayed**
- **Any error in the software or in the server could affect efficiency of the project**
- **Difficult to use at first**

2-Monitoring

- **Schedule and cost control where there are monitored closely**
- **Measure each details in the project**
- **Stay informed with feedbacks after release the application**
- **Keep in touch with the restaurant and food courts which buy the application to know if they face any problem with the application**