PROJECT SCHEDULING

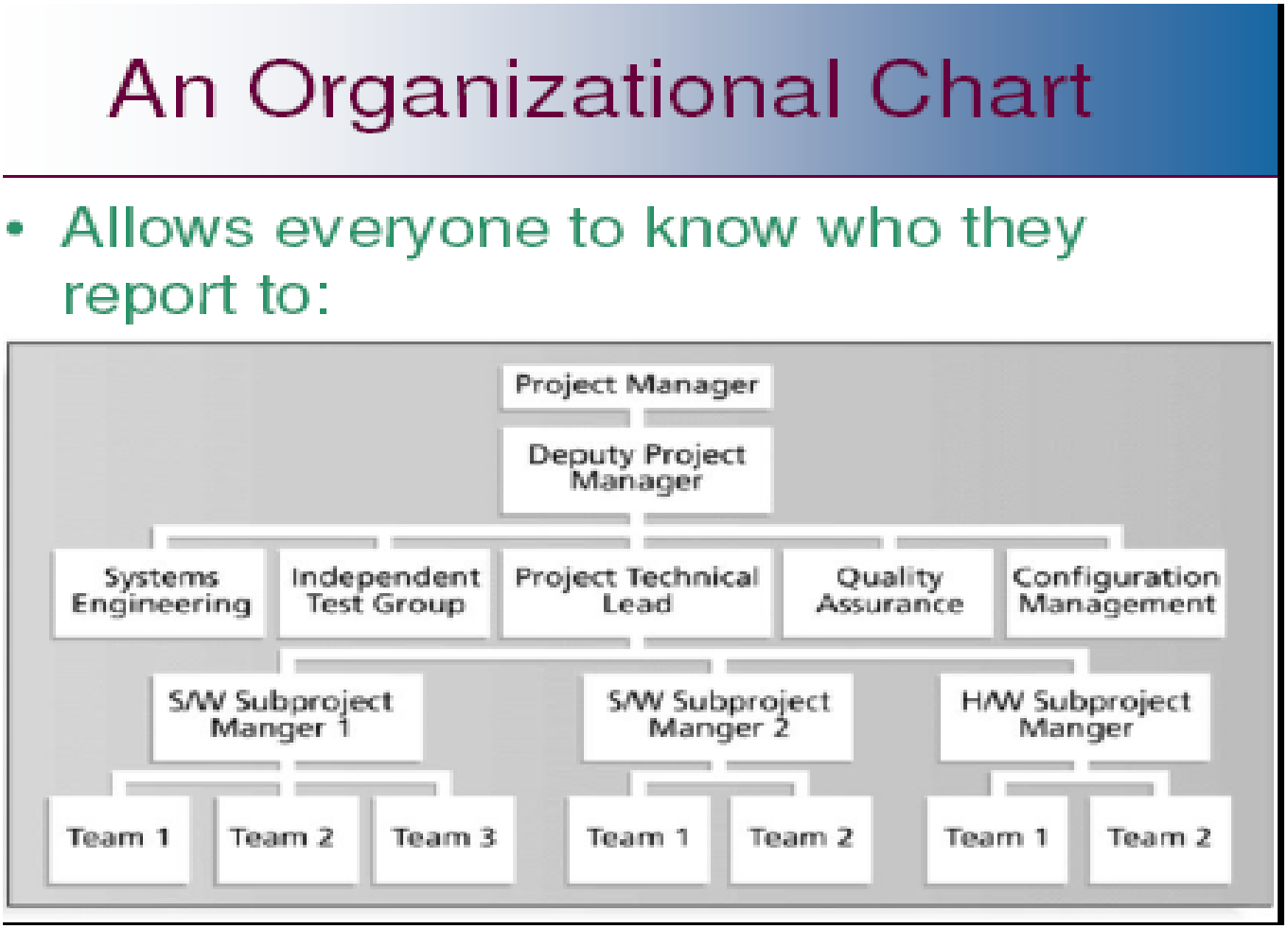
STEP 1:

1.Planning & Analysis
1.1 Requirement Gathering
1.1.1 Creating Questionnaire
1.1.2 Observation method
2. Designing
2.1 GUI forms
2.2 Database design
3. Development
3.1 Coding module 1
3.2 Coding module 2
4. Testing
4.1 Unit Testing
4.2 Integration Testing
5. Deployment & Maintenance

WORKBREAK DOWN STRUCTURE

PROJECT SCHEDULING

STEP 2:

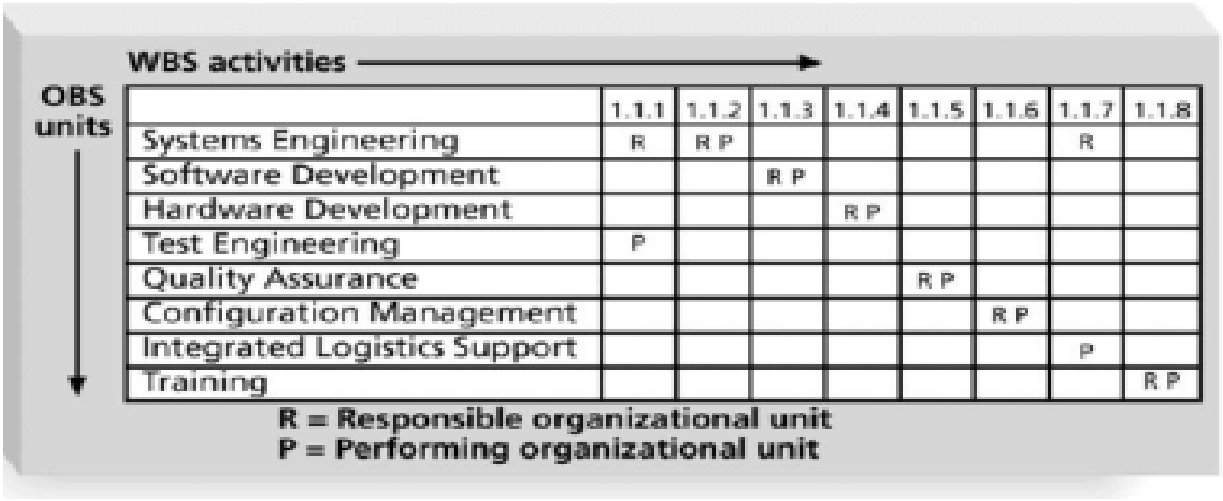


ORGANIZATIONAL BREAKDOWN STRUCTURE

PROJECT SCHEDULING

STEP 3:

RAM Example-Team Responsibilities



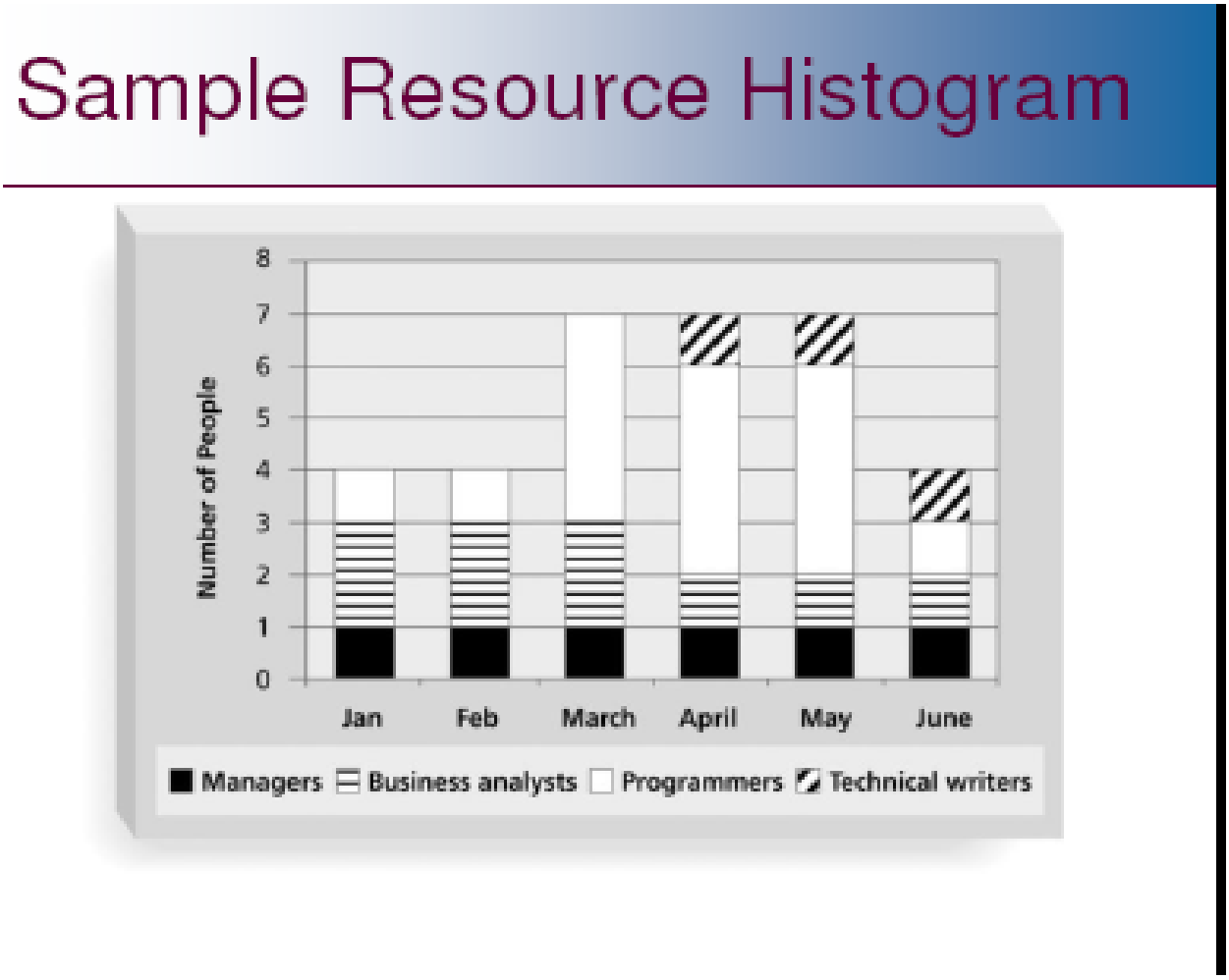
	1.1.1	1.1.2	1.1.3	1.1.4	1.1.5	1.1.6	1.1.7	1.1.8
Systems Engineering	R	R P					R	
Software Development			R P					
Hardware Development				R P				
Test Engineering	P							
Quality Assurance					R P			
Configuration Management						R P		
Integrated Logistics Support							P	
Training								R P

R = Responsible organizational unit
P = Performing organizational unit

RESPONSIBILITY ASSIGNMENT MATRIX

PROJECT SCHEDULING

STEP 4:-



RESOURCE HISTOGRAM

PROJECT SCHEDULING

Suppose there is a person X (18+ highly experienced programmer).

Each Individual in IT organization works for 9hrs /day and 5 days a week. He can deliver approx. 45 hrs. Productivity

For an Airline project, requirement is feature up gradation in a span of **120 hrs**.

Resources available **2 junior programmers** (A & B) and **1 senior programmers** (Y)**.**

Option 1:

A	B	Y
45	45	45

2*45 +1*45 = 135 hrs

Now, 135-120 =15hrs

Option 1 modified:

A	B	Y
40	40	40

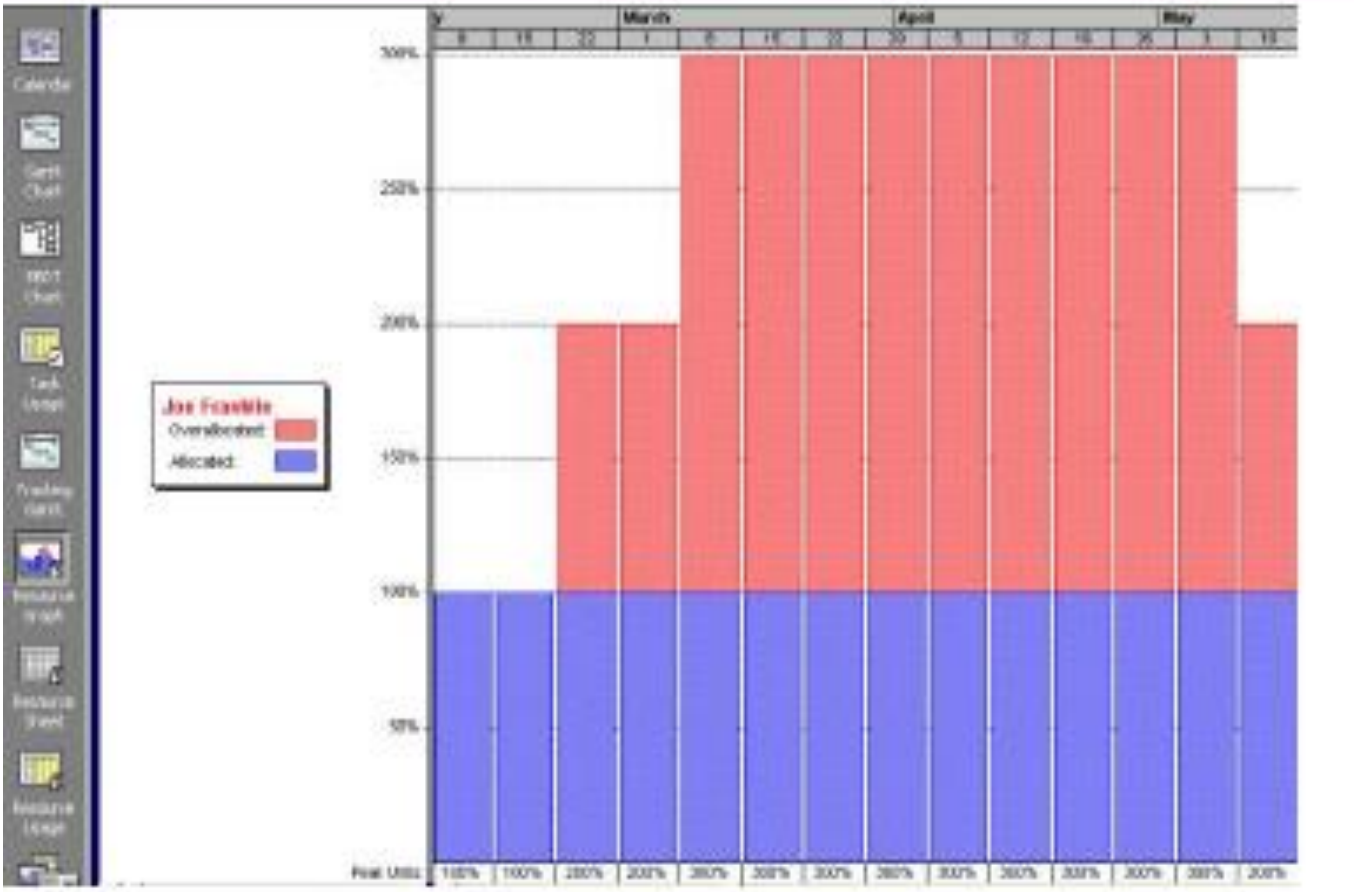
A	B	Y
45	45	30

Option 1 modified (Person X)

A	B	Y	X
45	45	25	5

PROJECT SCHEDULING

Sample Histogram Showing an Overallocated Individual



You are appointed as a Project Manager of ABC Multimedia Ltd,the project allotted is of 8 months duration.The budget of the Project is around 85 lacs.You have the responsibility to create the following:-

a) WorkBreakdown Structure

b)Organization Breakdown Structure

c) Responsibility Assignment Matrix

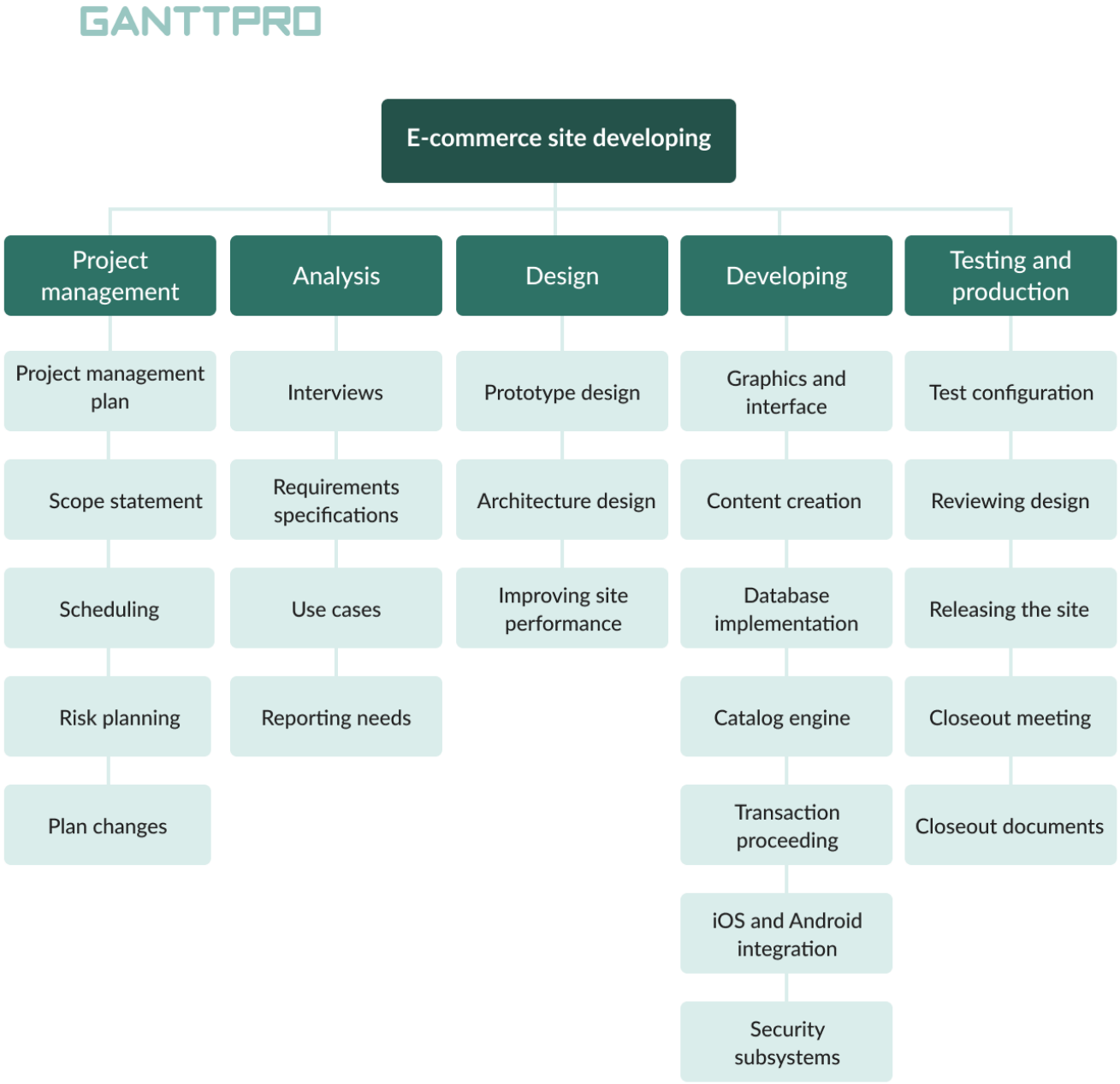
d)Staff Management Plan (Resource Histogram)

e) Explain what you mean by Resource Loading and Levelling

-15mks-

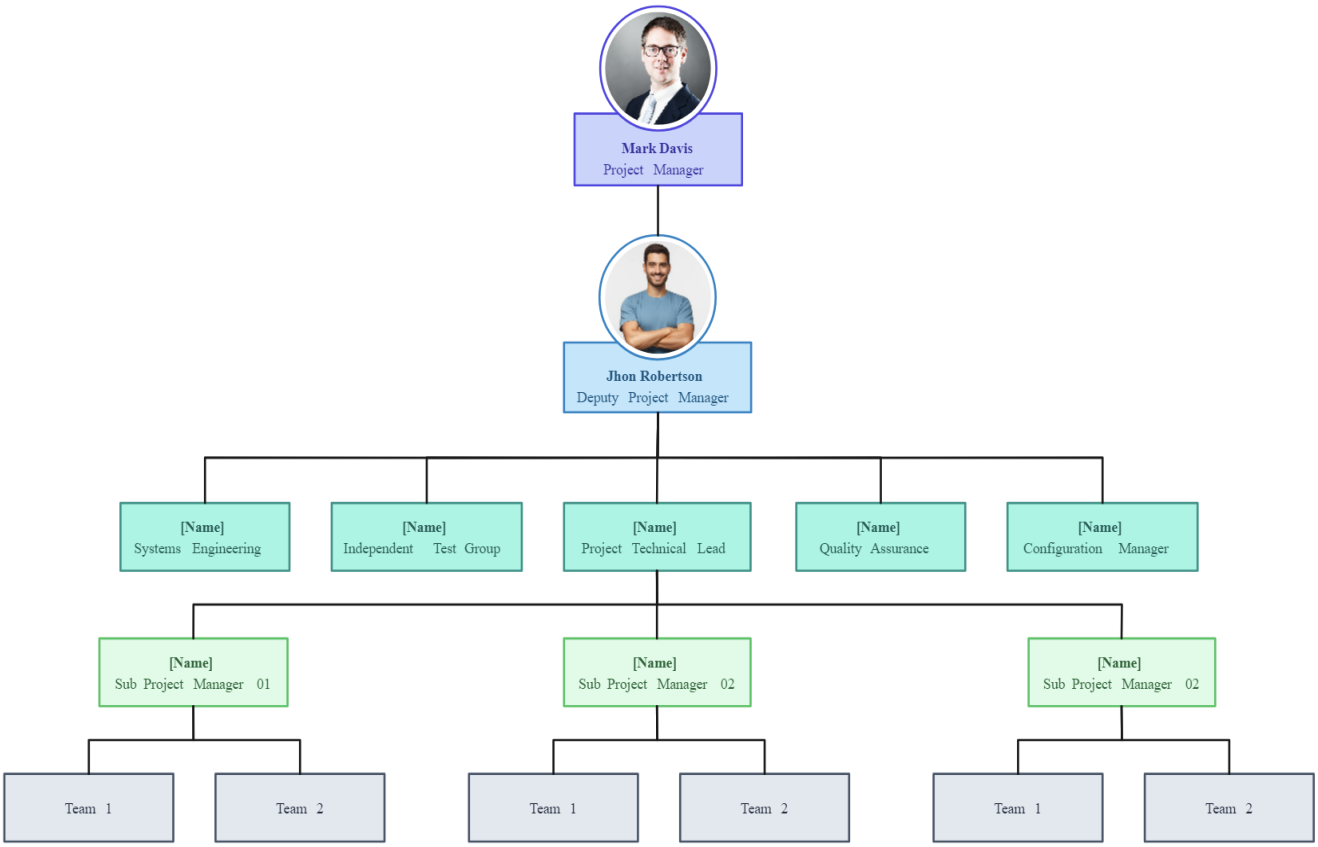
Assume it’s an E-commerce website.

a.WorkBreakdown Structure

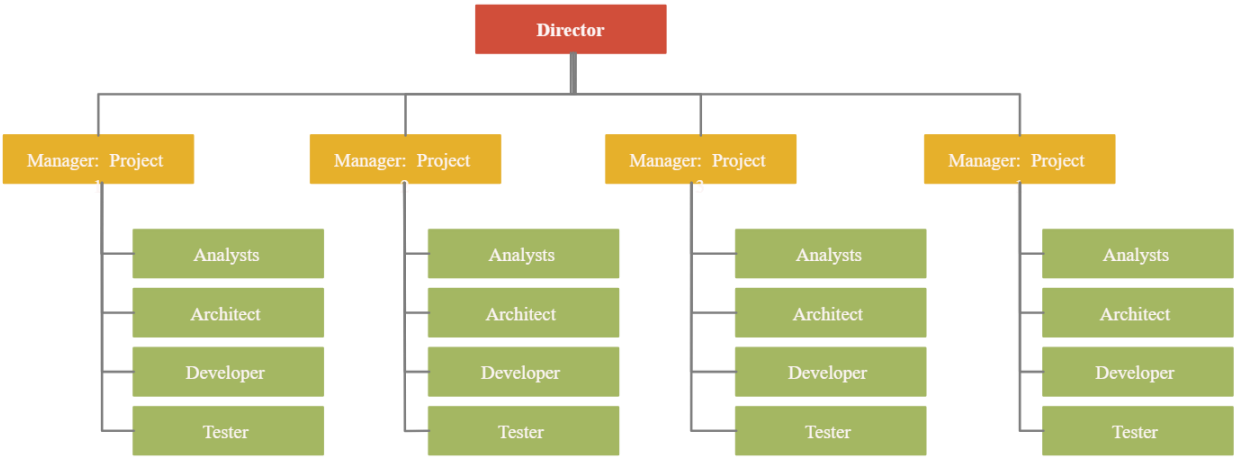


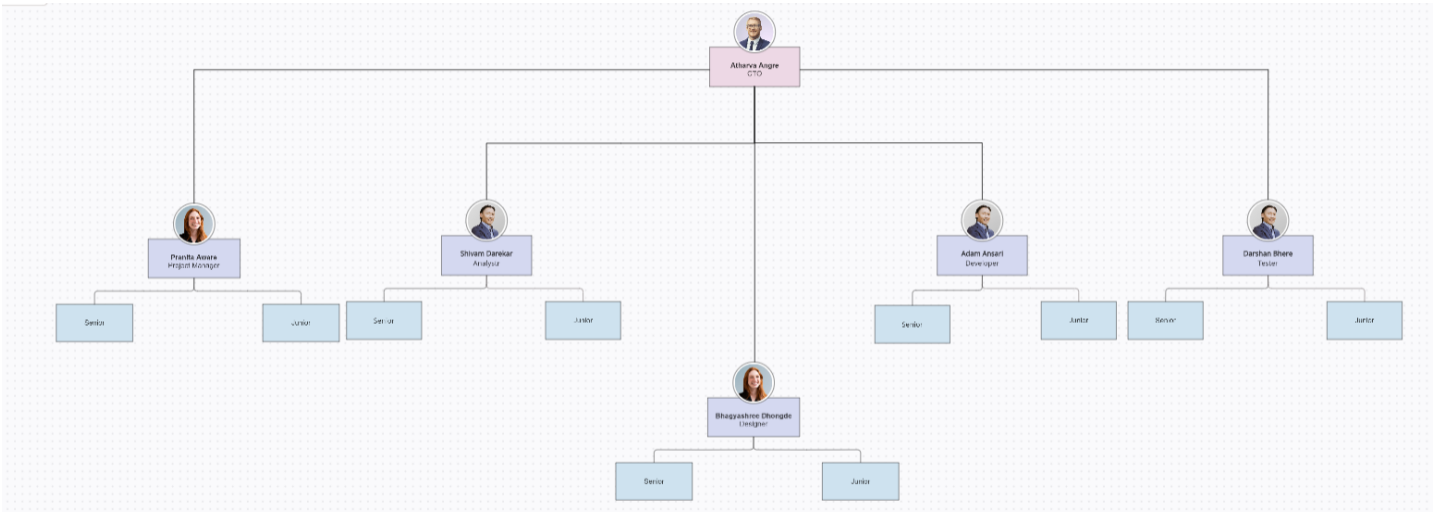
No.	WBS
1.	**Project Management**
1.1	Project Management Plan
1.2	Scope Statement
1.3	Scheduling
1.4	Risk Planning
1.5	Plan Changes
2	**Analysis**
2.1	Interview
2.2	Requirement specification
2.3	Use Cases
2.4	Reporting Needs

B. Organization Breakdown structure



OR

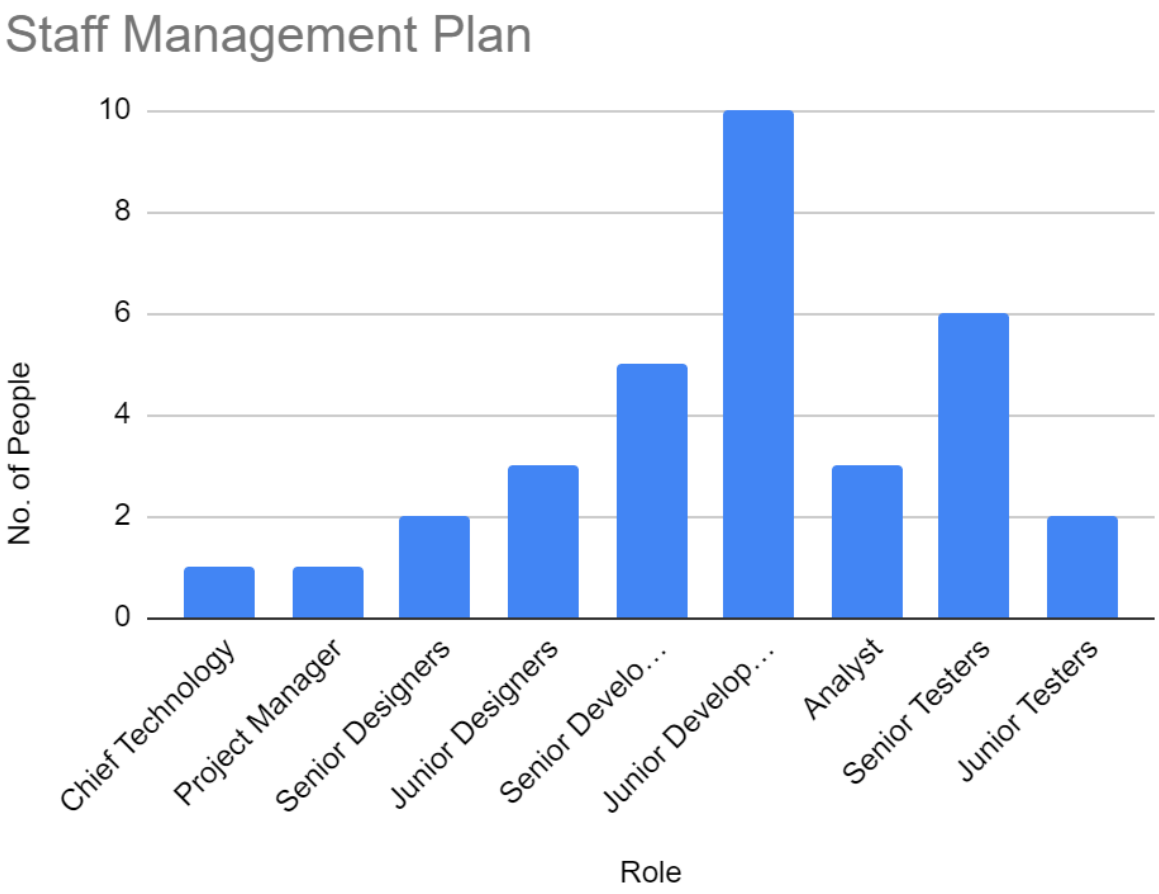

Director
Manager: Project
Manager: Project
Manager: Project
Manager: Project
Analysts
Architect
Developer
Tester
Analysts
Architect
Developer
Tester
Analysts
Architect
Developer
Tester
Analysts
Architect
Developer
Tester


Atharva Angre
CTO
Pranita Aware
Project Manager
Shivam Darekar
Analyst
Adam Ansari
Developer
Darshan Bhere
Tester
Senior
Junior
Senior
Junior
Senior
Junior
Senior
Junior
Bhagyashree Dhongde
Designer
Senior
Junior

c) Responsibility Assignment Matrix

Project Tasks RAM	**Program Manager**	**Lead Engineer**	**Jr. Engineer**	**Specialist**
Define Project	R	P	P	
Define Requirements		R	P	
Develop WBS	R			
Analyze Tools		P	P	R
Define Risks	RP			

WBS OBS	**1.1**	**1.2**		**1.3**	**1.4**	**1.5**	**2.1**	**2.2**	**2.3**	**2.4**	**2.5**	**3.1**	**3.2**	**3.3.**	**…**
Chief Technology Officer	R	R		R	R	R									
Project Manager	P	P		P	P	P	R	R	R	R	R	R	R	R	
Analyst							P	P	P	P	P				
Designer												P	P	P	
Developer															
Tester															

d) Staff Management Plan

Role	**No. of People**	Months
Chief Technology	1	Jan to August
Project Manager	1	Jan to August
Senior Designers	2	Jan to March
Junior Designers	3	Jan to March
Senior Developers	5	
Junior Developers	10	
Analyst	3	
Senior Testers	6	
Junior Testers	2