



N A S E R G Y

PMP Course

PMP In Practice

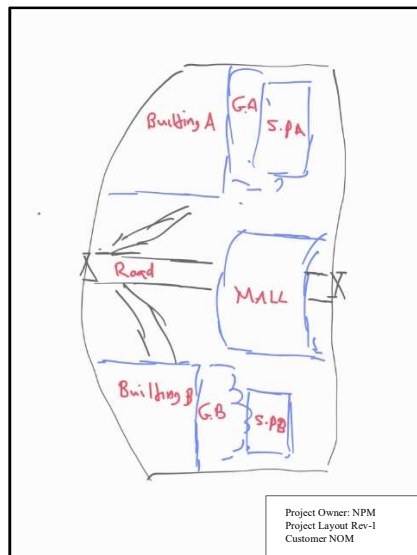
Case Study #1

Mohamed Naser

Project Description

NPM is an investment company that has awarded a land of 50,000m² in KSA, as per the company business case which is document in the benefit management plan, it plans to establish products that aim to provide the welfare and isolation to the customers (end users); besides, it plans to penetrate the real estate and development market heavily, so it aims to achieve a great boom by creating this project. therefore, it plans to establish the followings:

- 1- Projects
 - a. **Project A:** A group of facilities contains
 - i. Two Similar Residential buildings
 1. Each building contains of 10 repeated floors, each floor is 700m² which contains of 2 flats, one flat is 250m², and the other flat is 450m².
 2. Each building contains of 2500m² landscape garden
 3. Each building contains 250m² swimming pool.
 4. Roads
 - ii. A Mall
 1. It contains of 300 shops with two sizes (150m² and 300m²).
 - b. **Project B:** A platform that contains all the mall shops products (300 shops) to provide digital platform to the owners and users of the residential buildings and mall visitors.
 - i. The platform theme is similar to Amazon.com in addition to providing delivery service for free.
 - ii. A mobile application with the same features.
- 2- Relations between project A & B
 - a. Project B to start after finishing of Project A (Finish to Start Relationship).
- 3- Main layout



Nasergy for Training and Project Management

www.nasergy.com

Cairo, Egypt



- a. Project A:
 - i. Building A
 - ii. Building B
 - iii. Garden A
 - iv. Garden B
 - v. Swimming Pool A
 - vi. Swimming Pool B
 - vii. Mall
 - viii. Roads
- 4- Project phases
 - a. Project A:
 - i. Design
 - ii. Material Purchasing & Vendors Hiring
 - iii. Civil preparation works
 - iv. Construction works
 - v. Electrical & Plumbing works (MEP)
 - vi. Interior & Furniture works
 - vii. Testing Works
 - viii. Operation staff hiring & Handing over.
 - b. Project B:
 - i. Collecting project features and requirements
 - ii. Application demo
 - iii. Deployment of 1 shop products (food & grocery shops)
 - iv. Deployment of 10 shops products (food & grocery shops)
 - v. Deployment of all shops products (food & grocery shops)
 - vi. Deployment of 5 shops products (any shop types)
 - vii. Deployment of 10 shops products (any shop types)
 - viii. Deployment of all shops products (any shop types)
 - ix. Deployment and shipping all mall shops products.
- 5- Project duration
 - a. Project A:
 - i. 2 Years
 - b. Project B:
 - i. 1 Year
- 6- Project budget
 - a. Project A:
 - i. 20,000,000 USD
 - b. Project B:
 - i. 3,000,000 USD
- 7- Project sponsor
 - a. NFM (Sister Company to NPM responsible for Financing)
- 8- Customer
 - a. NOM (Sister Company to NPM responsible for Operation)



Project Requirements

- 1- For both project A & B:
 - a. Develop project charter and/or Project vision statement.
 - b. Project Planning including
 - i. Project Approach
 - a- Agile or Water fall approach
 - ii. Scope Management
 - a- Requirements Traceability Matrix
 - b- Scope Statement
 - c- WBS
 - d- Product backlog
 - e- Project Sprints
 - iii. Schedule Management
 - a- Schedule baseline
 - b- User stories
 - c- Story points
 - d- Estimation techniques used
 - iv. Resources Management
 - a- Resources assignment
 - b- Estimation techniques used
 - v. Cost Management
 - a- Cost baseline
 - b- Cost S-curve
 - c- Cost of Quality
 - vi. Communication Management
 - a- Communication management plan
 - vii. Risk Management
 - a- Risk Register
 - b- Risk Report (including quantitative analysis)
 - viii. Procurement Management
 - a- Procurement strategy
 - b- Make or buy analysis
 - c- Contract type used
 - c. Project Execution Strategy
 - i. How you will manage your execution works.
- 2- During the project execution you may find the followings expected problems (Risks), so kindly develop in advance response plan for these future probable issues, in addition you are requested to explore more expected risks and add them to the Risk Register:
 - a. Project A:
 - i. Lack of finance after year no.1 of execution works.
 - ii. Issues with the site preparation (water in soil).
 - iii. The design team is working remotely from India.
 - iv. Late delivery of furniture (interior).
 - v. 5th storm of Covid-19
 - vi. One of the vendors (civil works) disappeared
 - vii. Aggressive project manager from customer side.



- b. Project B:
 - i. Lack of Agile knowledge from team members.
 - ii. Lack of advanced computers software.
 - iii. Issues of network connections.
 - iv. Part of the team members (Coding team) is working remotely from Egypt.
 - v. The customer is hesitating and has always changes.
 - vi. The testing team is finding bugs repeatedly.
- 3- You are requested to provide the following documents on weekly basis to the customer & Top management
 - a. Project Variance analysis
 - b. Project Earned value
 - c. Project Issues Log
 - d. Project Change Log
 - e. Project Lesson Learned Register