# SPM: Software Project Management

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#### PREPARED FOR

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(SPM)

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**Software Project Management: Characteristics of** Project

## **SPM:Software Project Management**

- A project is a combination of interrelated activities to achieve a specific objective within a schedule, budget, and quality.
- It involves the coordination of group activity, wherein the manager plans,
   organizes, staffs directs, and controls to achieve an objective, with constraints on
   time, cost, and performance of the end product.
- Project management is the combination of project and management.

#### **SPM:Software Project Management**

- Planning is the strong keys to make the project more effective and well utilization of resources to achieve the goal.
- project like how objectives are important for achieving the goal, the total time duration of the project, calculated risk, and uncertainty of the project, the total estimated cost of the project, etc.
- some other characteristics of the project like team spirit, require funds,
   directions, uniqueness, flexibility, and subcontracting, etc.

#### **SPM:** Characteristics of a Project:

- Projects are not homogeneous.
- Each project is different in itself.
- The distinctive characteristics of a project are

#### **Characteristics of Project**

- 1. Objectives
- 2. Single entity
- 3. Life span
- 4. Require funds
- 5. Life cycle
- 6. Team Spirit
- Risk and uncertainty
- 8. Directions
- 9. uniqueness
- 10. Flexibility
- 11. Sub-Contracting
- 12. Cost

#### **SPM: Characteristics of a Project :1.Objectives**

- Every project is started with some objective or goal viz. time, budget, quality, and quantity, when objectives are fulfilled project cause existing.
- You can initially define the objectives of the project what actually need to achieve.
- Objectives are the key characteristics of the project where you will see the progress of the project and time to time analysis will show you the result of how much you have achieved.

### SPM: Characteristics of a Project :2. Single entity

- A project is one whole thing.
- This means that in a project although different people contribute still is recognized as a single entity.
- The teams are often specifically assembled for a single project.

#### SPM: Characteristics of a Project : 3. Life Span

- No project can be ceaseless and indefinite.
- It must have one and beyond which it cannot proceed.
- Every project is invariably time-bound.
- At the time of planning, you will see the time phase of the project where the team can work independently on the project modules.
- Let's consider an example project that is divided into three modules let's say A, B, and C. If the total time span of a project is 5 months then you can set the time span for modules independently like A can complete in 2 months and also B can complete in 2 months and C can complete in 1 month as per requirement.

#### **SPM:** Characteristics of a Project :4.Require funds

- Every project needs funds to reach the endpoint.
- Without adequate funds, no project can be successfully implemented.
- Cost estimation is one of the essential factors for any organization.
- So, calculating in advance the required funds for the project will be very impactful.

#### SPM: Characteristics of a Project : 5. Life Cycle

- Each project has a life cycle with different stages like start, growth, maturity, and decay.
- A project has to pass through different stages to get itself completed.
- Let's consider an example where the project is related to software development then you can say SDLC (Software Development lifecycle) will be the life cycle of the project where you will see many stages like planning, defining, designing, building, testing, and deployment, etc.

#### **SPM: Characteristics of a Project :6.Team Spirit**

- Team spirit is required to get the project completed because the project constitutes different members having different characteristics and from various disciplines.
- But to achieve common goal harmony, missionary zeal, team spirit is necessary.

#### SPM: Characteristics of a Project :7.Risk and Uncertainty

- The project is generally based on forecasting.
- So risk and uncertainty are always associated with projects.
- There will be a high degree of risk in those project which are not properly defined.
- Only the degree of control over risk and uncertainty varies with the project being conceived based on information available.

#### **SPM: Characteristics of a Project :8.Directions**

- Project is always performed according to the directions given by the customers with regard to time, quality and quantity, etc.
- The convenience of the supply sides of economics such as labor availability ore resources and managerial talent etc. are all secondary concerns, primary being the customer requirement.

#### **SPM:** Characteristics of a Project :9.Uniqueness

- Each project is unique in itself, and it's having own features.
- No two projects are similar even if the type of organization is the same.
- The uniqueness of the project can measure by considering the many factors like objectives, features of the project, application of the project, etc.

#### SPM: Characteristics of a Project :10.Flexibility

- Change and project are synonymous.
- A project sees many changes throughout its life span.
- These changes can make projects more dynamic and flexible.

#### SPM: Characteristics of a Project :11.Subcontracting

- Subcontracting is a subset of every project and without which no project can be completed unless it is a proprietary firm or tiny in nature.
- The more complexity of a project the more will be the extent of contracting.
- Every project needs the help of an outsider consultant, engineer, or expert in that field.

#### **SPM:** Characteristics of a Project :12.Cost

- If the quality of the project is to be changed there would be an impact on the cost of the project.
- The cost could increase if more resources are required to complete the project quicker.