

Experiment 07

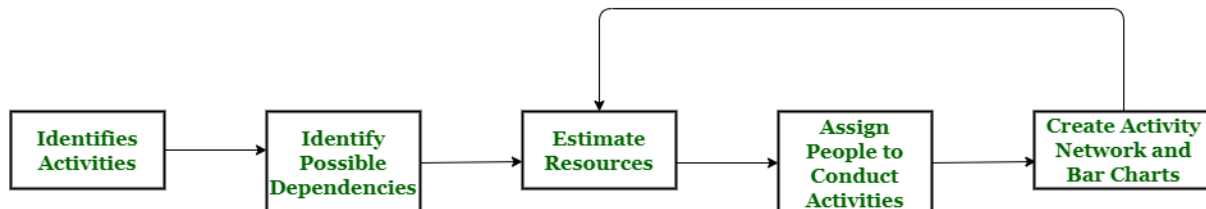
Aim: Use project management tool to prepare schedule for the project.

Tools: Miro, Kanban Tool

Theory:

Project Scheduling

A schedule in your project's time table actually consists of sequenced activities and milestones that are needed to be delivered under a given period of time. **Project schedule** simply means a mechanism that is used to communicate and know about that tasks are needed and has to be done or performed and which organizational resources will be given or allocated to these tasks and in what time duration or time frame work is needed to be performed. Effective project scheduling leads to success of project, reduced cost, and increased customer satisfaction. Scheduling in project management means to list out activities, deliverables, and milestones within a project that are delivered. It contains more notes than your average weekly planner notes.



Project Scheduling Process/Flow

Process:

The manager needs to estimate time and resources of project while scheduling project. All activities in project must be arranged in a coherent sequence that means activities should be arranged in a logical and well-organized manner for easy to understand. Initial estimates of project can be made optimistically (estimating can be made when no threats or problems take place). The total work is separated or divided into various small activities or tasks during project schedule. Then, Project manager will decide time required for each activity or task to get completed.

Problems arise during Project Development Stage :

- People may leave or remain absent during particular stage of development.
- Hardware may get failed while performing.
- Software resource that is required may not be available at present, etc.

The project schedule is represented as set of charts in which work-breakdown structure and dependencies within various activities are represented. To accomplish and complete project within a given schedule, required resources must be available when they are needed. Therefore, resource estimation should be done before starting development.

Resources required for Development of Project :

- Human effort
- Sufficient disk space on server
- Specialized hardware
- Software technology
- Travel allowance required by project staff, etc.

Advantages of Project Scheduling :

- It simply ensures that everyone remains on same page as far as tasks get completed, dependencies, and deadlines.

- It helps in identifying issues early and concerns such as lack or unavailability of resources.
- It also helps to identify relationships and to monitor process.
- It provides effective budget management and risk mitigation.

Popular tools for used for Software Scheduling process:

Miro:

Miro (previously known as Realtime Board) brands itself as a digital whiteboard that makes it easy to collaborate with others. The software allows you to create notes and designs, move things around, and communicate through embedded video calls or online chats. The tool also comes with a series of pre-built templates that can inspire or serve as a starting place for your own project work. We like to use the online whiteboarding tool and applying Miro when leading real-time remote [design thinking workshops](#). Another important feature to note is its [app integrations and connections](#). Miro can connect to some other common virtual working tools, such as Google Drive, Slack, Asana, Trello, and SurveyMonkey.

Some common uses of Miro include:

- Creating a list of ideas or topics to focus on for an important project
- Developing a user story or customer journey map
- [Wireframing](#) a new product concept or idea
- Laying out a roadmap or strategy for an [innovation workshop](#) or program
- Running a more engaging or [innovative meeting](#) for your team in an [agile culture](#)

Kanban Method and Kanban Tool/Board

Kanban is a systematic method of work, derived from [Lean](#) and Agile. The Kanban method uses visual cards on a process board, with the number of cards in each stage equal to its agreed capacity. Every card represents a single piece of work. These cards and their location on the board act as a signalling mechanism - the team can only begin work on a new item, once a slot for it has become available on the board. Through this, Kanban is letting you visualize both the process and each item's status at the same time.

A **Kanban Board** is a visual signboard, showing the work to be done, the work in progress, and the work completed. It's a visual representation [value stream](#), that has been mapped out on a whiteboard, a wall, or in dedicated Kanban software. The purpose of using the board is to make the team members able to self-organize without continuous supervision. While achieving that may take some time, the intermediate goal in the day-to-day running of the team is for them to pull the right work, at the right time, in the right sequence. The board belongs to the team: it is foremost not a project management tool, but a tool for the team and their stakeholders.

Summing up, the benefits of using Kanban boards are:

- An optimized workflow on which blockers are easily identified,
- Less chaos and fewer meetings necessary
- Better finished vs. Started items ratio - allowing complete focus on project priorities.

Example of a Kanban Board:

	To do 5 / 6	In Progress 1 / 1	▼
Presentation	+ add task	+ add task	Done (0)
	Directions presentation	Sales Presentation	
	Operations presentation		
Newsletter	+ add task	+ add task	Done (0)
	Customer newsletter		
	Industry newsletter		
Website	+ add task	+ add task	Done (0)
	Product website		

Implementation:

≡ Ecommerce-Project Schedule

To do	In Progress	Testing
+	+	+
Shopping Cart	Checkout Page	Payment Gateway integration
Catalog Browser	Filter and Sort Options	Customer Database Integrity
Product Page	Product Page Dynamics	Sales and Promotions Page
Profile Manager		Front Page Carousel
Exclusive Club/Group Section		Discounted Price Calculator

Help Tools ▾

Filter by title, tags or card name

▼
Q

Done	Approved
+	+
Customer Login/Logout	Login Page
Wishlist	Feedback and Customer Support
Product Order Database	Order Status and Invoice Generator
Customer Account Management	

Learning Outcomes: The student should have the ability to:

LO 1: Identify the importance of project scheduling

LO 2: Draw a project schedule using any project scheduling tool

Course Outcomes: Upon completion of the course students will be able to understand and implement a project scheduling process

Conclusion: Thus, in this experiment we were introduced to the concept of software project scheduling and we have developed a project schedule for our project using Kanban Tool.

For Faculty Use

Correction Parameters	Formative Assessment [40%]	Timely completion of Practical [40%]	Attendance /Learning Attitude [20%]	
Marks Obtained				