

EXP NO: USE TIMELINE CHARTS OF THE ASSIGNED PROJECT

AIM :

To draw the timeline chart in excel or any tools for the project management.

PROCEDURE:

An Excel timeline chart is called a milestone chart in project management terms. It is used to track all the stages of a project visually. As a project manager, deliver the project to the end-user as committed before the start of the project.

STEPS TO DRAW TIMELINE CHART IN EXCEL

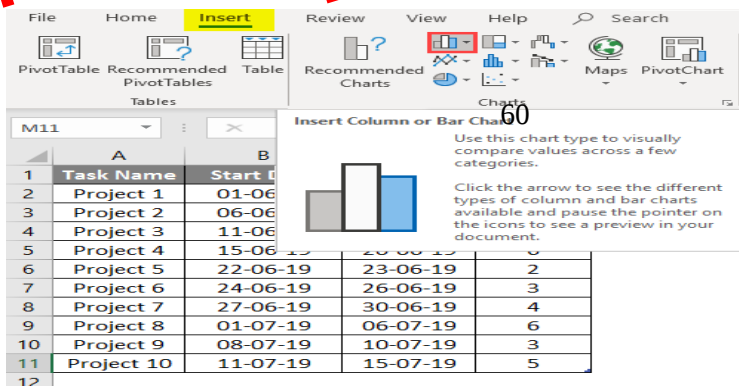
Project Timeline Using Stack Bar Graphs

Suppose you have a list of tasks in tabular form in excel, as it shows in the screenshot below:

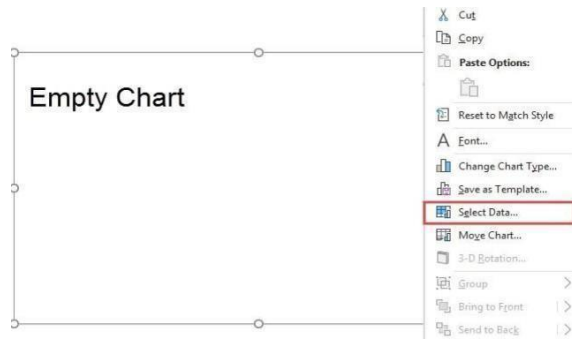
	A	B	C	D
1	Task Name	Start Date	End Date	Duration
2	Project 1	01-06-19	04-06-19	4
3	Project 2	06-06-19	10-06-19	5
4	Project 3	11-06-19	12-06-19	2
5	Project 4	15-06-19	20-06-19	6
6	Project 5	22-06-19	23-06-19	2
7	Project 6	24-06-19	26-06-19	3
8	Project 7	27-06-19	30-06-19	4
9	Project 8	01-07-19	06-07-19	6
10	Project 9	08-07-19	10-07-19	3
11	Project 10	11-07-19	15-07-19	5
12				

In this table, we have the Task Name, Start Date of the task, End Date of the task, and duration (in the number of days) it takes to complete the task. The duration can be inputted manually, or you can use a formula as $[\text{End Date} - \text{Start Date} + 1]$. Here +1 allows excel to count the Start Date as well while calculating the Duration.

Goto Excel ribbon > Click Insert > Select Insert Column or Bar Chart option.

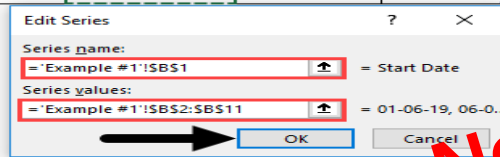


As soon as you click on that chart button, you can see an empty excel chart is generated as follows. Right-click on it and choose select Data.

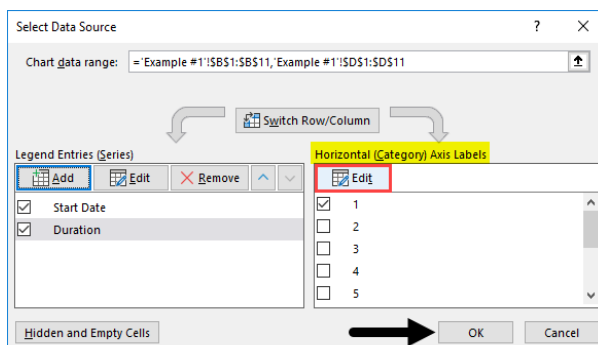


A **Select Data Source** popping window will appear. Under **Legend Entries (Series)**, click on **Add** tab. A new popup window **Edit Series** will appear on the front. Under **Series name**, select **Start Date** (cell B1). Under **Series values**, select a range of data from the **Start Date** column (Column B, B2:B11). Click **OK**.

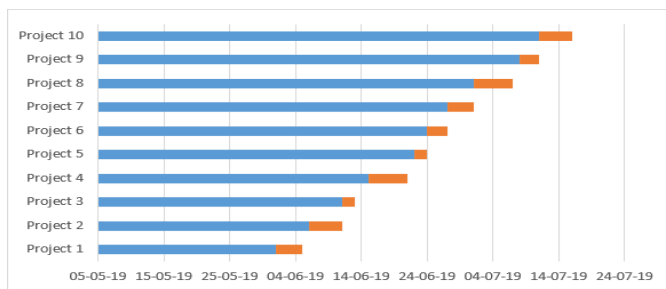
Task Name	Start Date	End Date	Duration
Project 1	01-06-19	04-06-19	4
Project 2	06-06-19	10-06-19	5
Project 3	11-06-19	12-06-19	2
Project 4	15-06-19	20-06-19	6
Project 5	22-06-19	23-06-19	2
Project 6	24-06-19	26-06-19	3
Project 7	27-06-19	30-06-19	4
Project 8	01-07-19	06-07-19	6
Project 9	08-07-19	10-07-19	3
Project 10	11-07-19	15-07-19	5



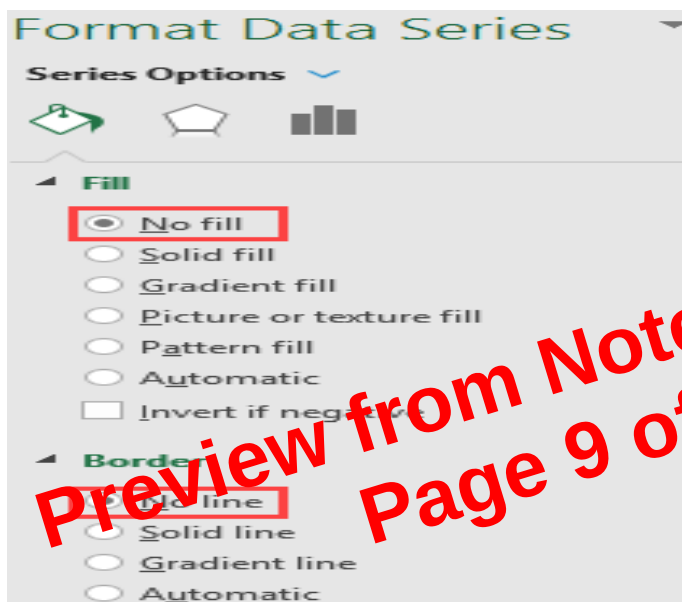
Now add **Duration** as a **Series name** and **Duration** values as **Series values** by clicking **Add** button one more time. See at the above step.



Under **Format Data Series**, select **No Fill** under **Fill** section and **No Line** under **Borders** section to make the blue bars in visible. You can see a stacked bar chart as shown below with start date as labels on X-Axis, Duration as Value for stacks, and Task Name as labels for Y-Axis.



Now, there are these blue bars which are nothing but the start date bars. We don't want those in our timeline graph. Therefore, we need to remove those.



HARDWARE INTERFACE

The server is directly connected to the client systems. The client systems have access to the database in the server.

SYSTEM FUNCTIONS

- Secure Reservation of information by the Students.
- SMS and Mail updates to the students by the Registrar
 - Registrar can generate reports from the information and is the only authorized personnel to add the eligible application information to the database.

USER CHARACTERISTICS

- **Applicant** - They are the person who desires to obtain the course and submit the information to the database.
- **Administrator** - He has the certain privileges to add the course status and to approve the issue of course. He may contain a group of persons under him to verify the documents and give suggestion whether or not to approve the dispatch of course.

CONSTRAINTS

- The applicants require a computer to submit their information.
- Although the security is given high importance, there is always a chance of intrusion in the web world which requires constant monitoring.

The user has to be careful while submitting the information. Much care is required.

ASSUMPTIONS AND DEPENDENCIES

- The Applicants and Administrator must have basic knowledge of computers and English Language.
- The applicants may be required to scan the documents and send.

RESULT:

Thus the SRS was studied for the given project.

guards on the outgoing flow.

Partition:

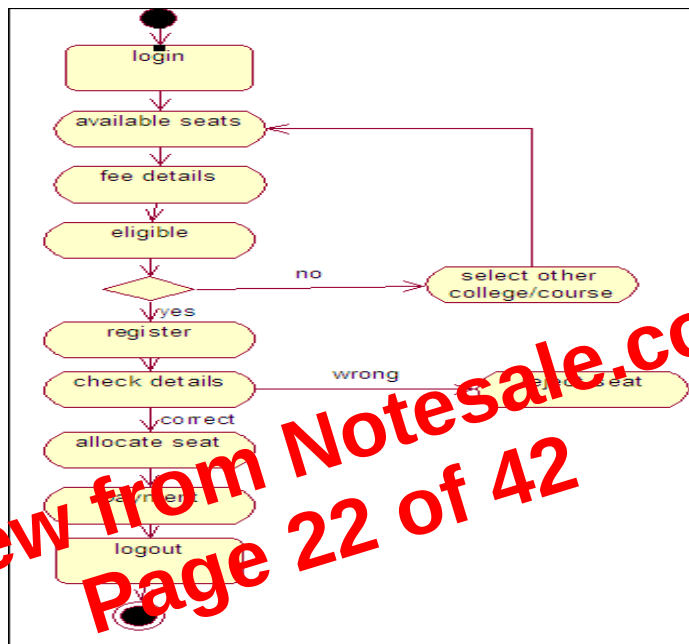
If figure is organized into three partitions, it is also called swim lanes, indicating who/what is performing activities (either the Applicant, Registrar, or System).

Sub-activity indicator:

The rake in the bottom corner of an activity, such as in the Apply to University activity, indicates that the activity is described by a more finely detailed activity Diagram.

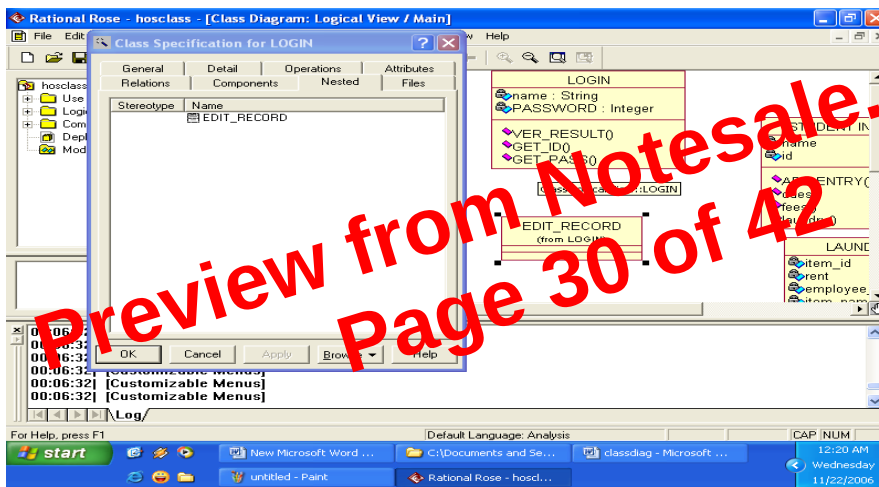
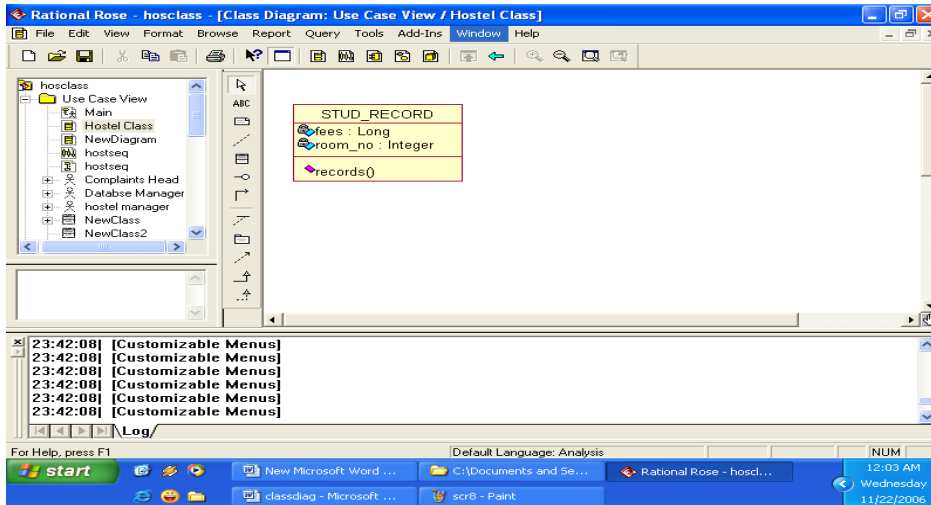
Flow final:

The circle with the X through it, this indicates that the process stops at this point.

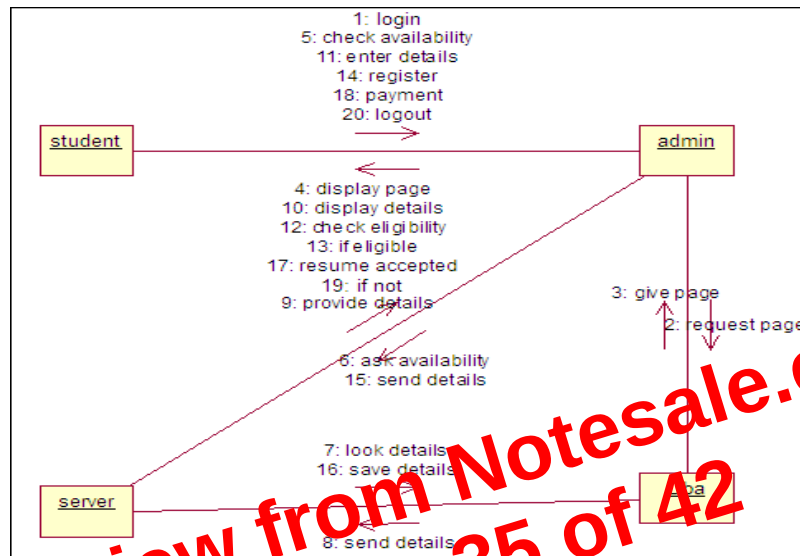


RESULT:

The activity diagram was made successfully by following the steps described above.



The example below shows as implement collaboration diagram for the placing an order use case. This time the names of the objects appear after the colon, such as :Order Entry Window following the object Name: class Name naming convention. This time the class name is shown to demonstrate that all of objects of that class will behave the same way



STATE TRANSITION DIAGRAM:

State-transition diagrams describe all of the states that an object can have, the events under which an object changes state (transitions), the conditions that must be fulfilled before the transition will occur (guards), and the activities undertaken during the life of an object (actions). State-transition diagrams are very useful for describing the behavior of individual objects over the full set of use cases that affect those objects. State-transition diagrams are not useful for describing the collaboration between objects that cause the transitions

REQUIREMENTS:

Software Interfaces

Any window-based operating System (Windows98/2000/XP/NT)IBM Rational Rose Software

THEORY:

State Chart Diagrams provide a way to model the various states in which an object can