

Gantt Charts

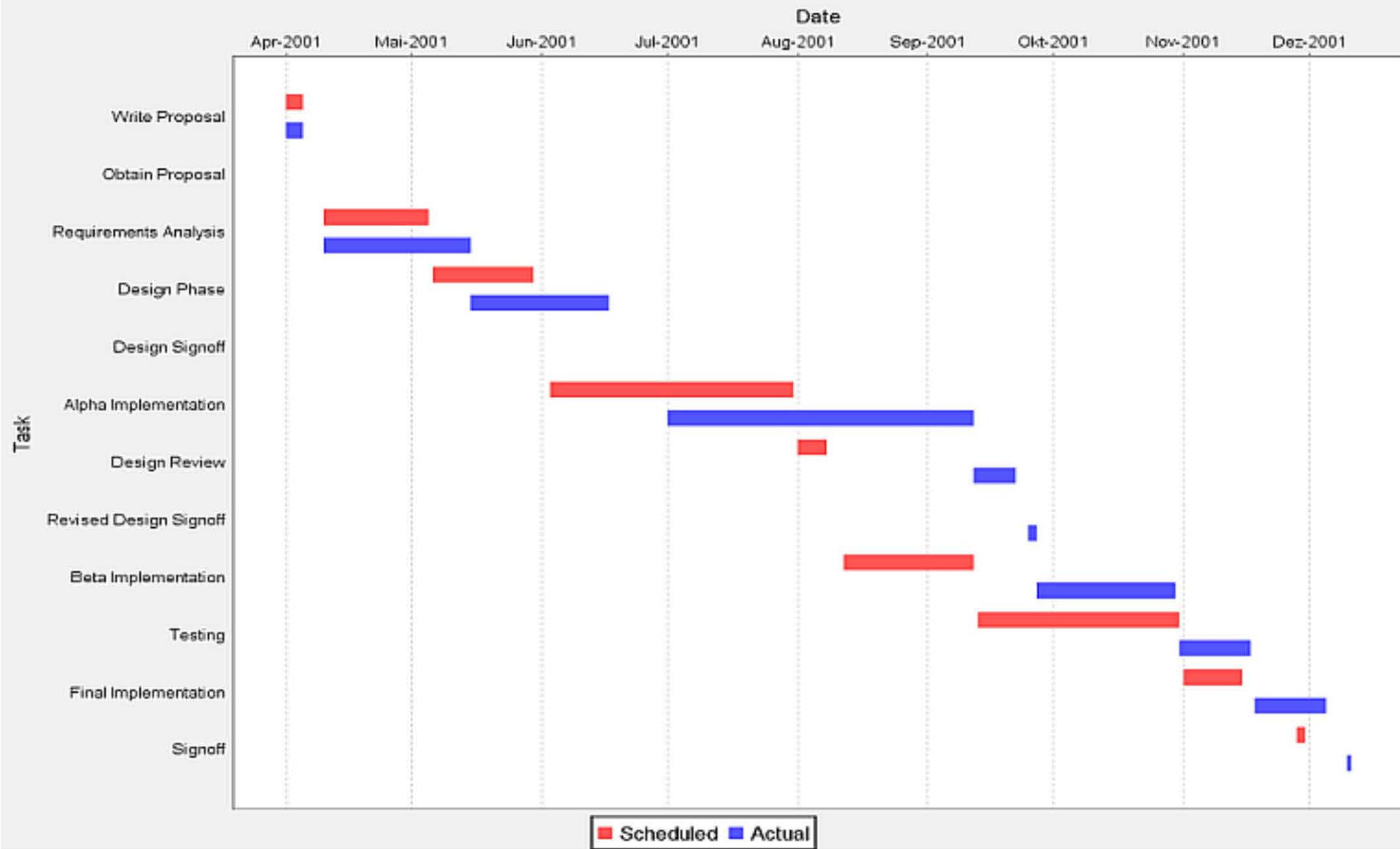
- A Gantt chart is a type of bar chart, adapted by Karol Adamiecki in 1896, and independently by Henry Gantt in the 1910s, that illustrates a project schedule. Gantt charts illustrate the start and finish dates of the terminal elements and summary elements of a project.
- A Gantt chart allows the user to see:
 - What the tasks are
 - When each task begins and ends
 - How long each task is scheduled to last
 - Where tasks overlap with others and by how much
 - The start and end date of the entire project

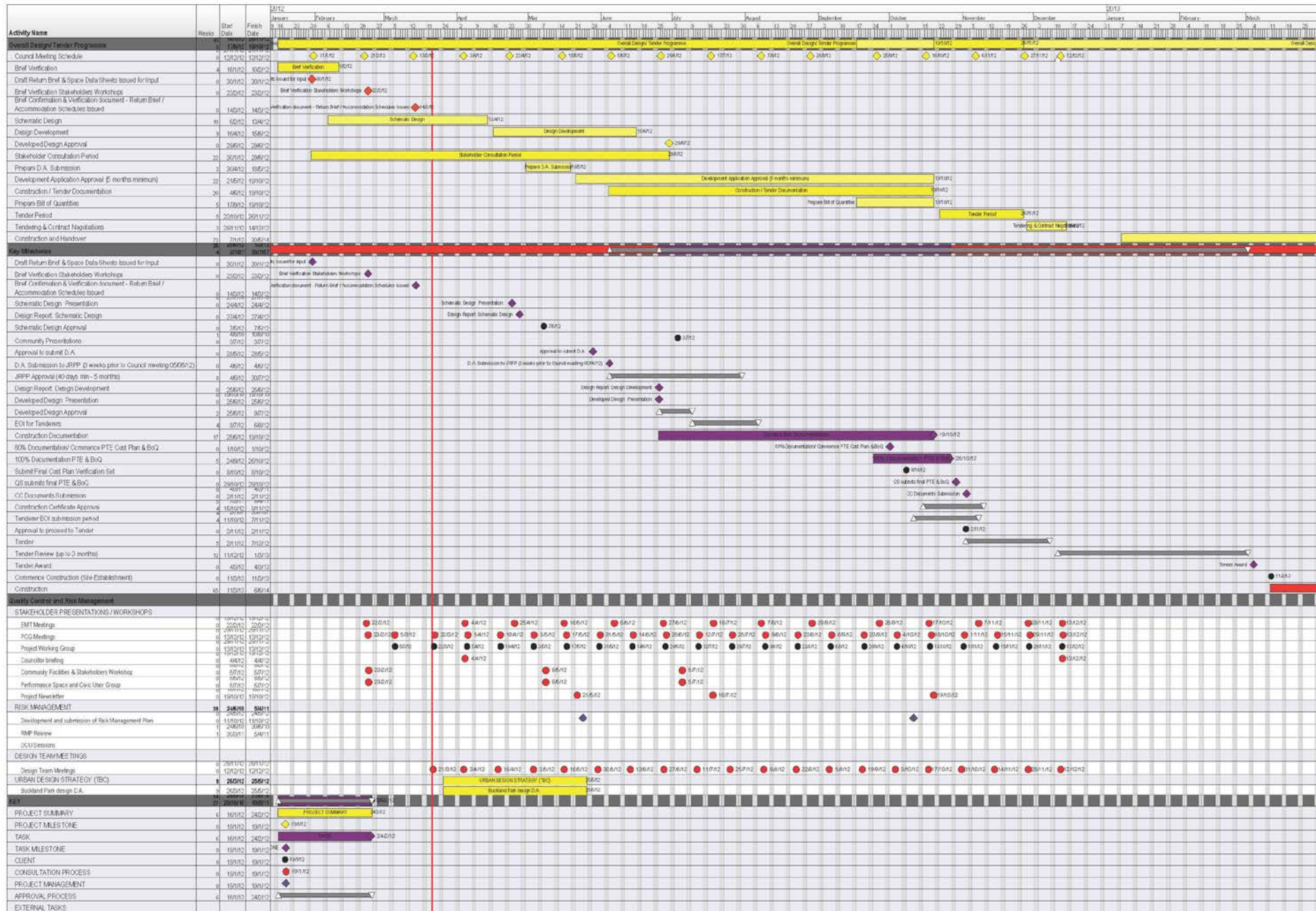
Gantt Charts - examples

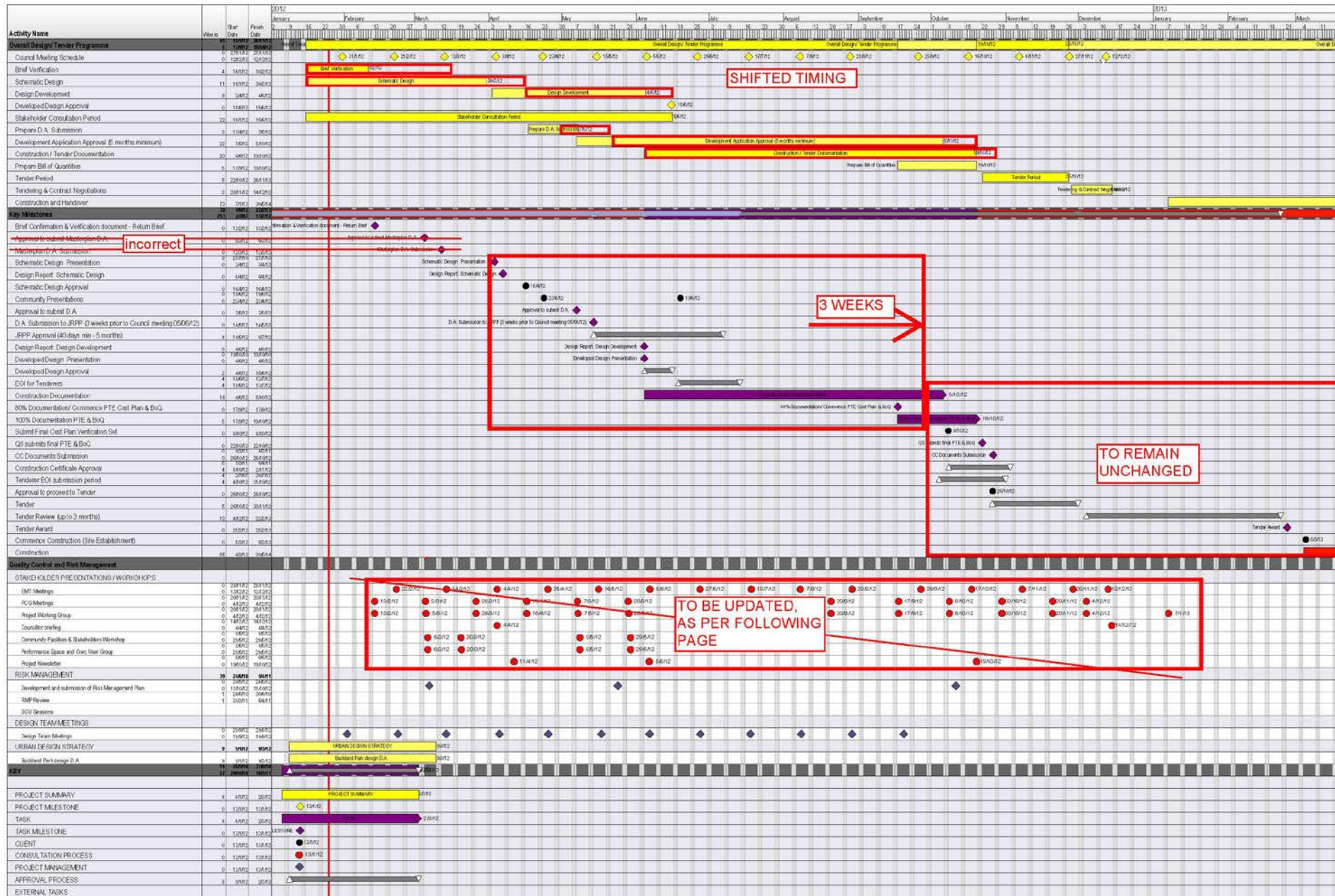
Gantt chart



Gantt Chart Demo







Gantt Chart - Activity

We will create a Gantt Chart for Design Process 3 for the current trimester.

I will demonstrate by starting a Gantt chart for Week 1, we will spend some time in class continuing this chart. This is to be completed and uploaded onto the journal by next week.

There is a resource on Gantt charts available in Week 2 on the Blackboard site.

ACTIVITY

Create a list of all the items that had to be completed for Week 2.

This list will become the basis for your Timesheet Template – information from this will be plotted onto your Gantt Chart.

DESIGN PROCESS 3

Producing a Gantt chart

A Gantt chart is a type of bar chart for project management. This organizational resource is often in the form of a software tool, although the idea of a paper-based Gantt chart is also not unfamiliar to many project managers. Using a Gantt chart can help fine-tune the project timeline for any size of project, and helps in many general planning tasks. To create a Gantt chart to help with time management, organization or in-depth analysis of a project, here are some of the most common steps involved in that process.

1. **Understand the work breakdown structure.** The Gantt chart is meant to help with a comprehensive goal of planning and implementing a work breakdown structure, which is the overall structure of the project. Knowing more about what this means can be useful for those who are planning to build a Gantt chart or use a related software resource.
 - Learn about terminal and summary elements. Terminal elements and summary elements are two different types of project phases or modules that have their own timelines within a Gantt chart. Understanding how they differ and how they relate to each other can be useful.

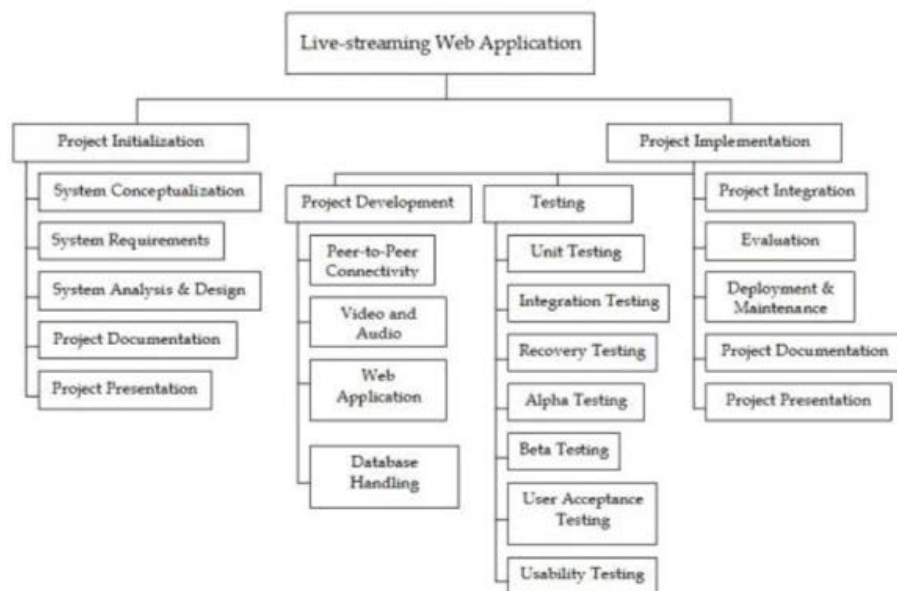


Figure 3.2 Work Breakdown Structure

Figure 3.2 shows the proponent's work breakdown structure which is divided into two main parts: Project Initialization and Project Implementation.

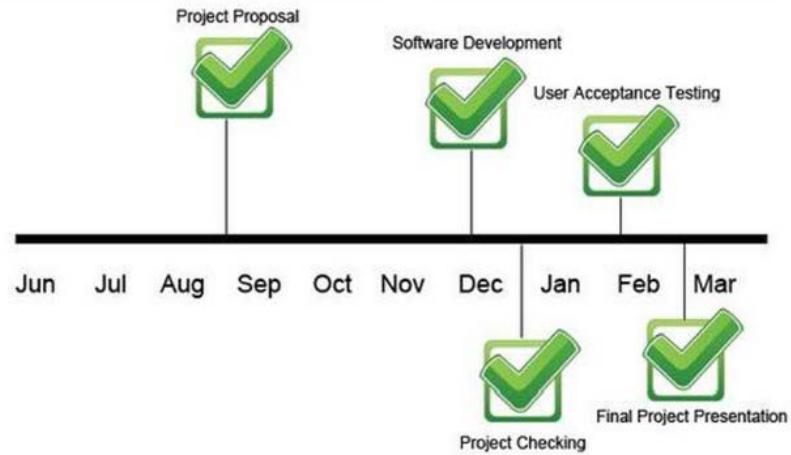
2. **Gather necessary information about all steps or processes included in a greater project.** This information is what the project manager will use to build the Gantt chart.

Table 3.2 Project Schedule

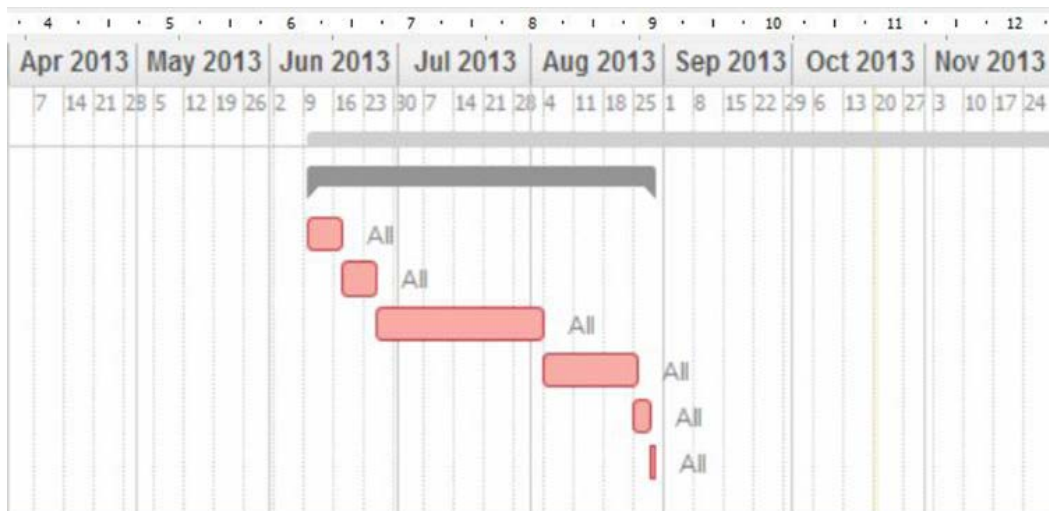
Task Name	Owner	Duration
1. Project Proposal		81 days
1.1 System Conceptualization	All	8 days
1.2 Review Requirements	All	8 days
1.3 System Analysis & Design	All	39 days
1.4 System Documentation	All	21 days
1.5 Presentation Preparation	All	4 days
1.6 Presentation Proper	All	1 day
2. Development		
2.1 <i>Software Development</i>		78 days
2.1.1 User Interface Design		15 days
2.1.2 Live Stream Module	All	33 days
2.1.3 Database Architecture	All	10 days
2.1.4 Conference Module	All	34 days
2.1.5 Record Module	All	19 days
2.1.6 Document Module	All	19 days
2.2 <i>System Integration</i>	All	7 days
2.3 <i>System Testing</i>		6 days
2.3.1 Unit Testing	All	1 day
2.3.2 Integration Testing	All	1 day
2.3.3 Recovery Testing	All	1 day
2.3.4 Alpha Testing	All	1 day
2.3.5 Beta Testing	All	1 day
2.3.6 Usability Testing	All	1 day
2.4 <i>System Review</i>		11 days
2.4.1 Evaluation of Testing Results	All	3 days
2.4.2 Improvements of the System	All	8 days
3. Project Checking		8 days
3.1. Deployment and Installation	All	8 days
4. User Acceptance Testing		30 days
4.1 User Acceptance Testing	All	20 days
4.2 Evaluation of UAT	All	10 days
5. Final Presentation		18 days
5.1 System Documentation	All	17 days
5.2 Project Presentation	All	1 day

3. **Build timelines.** While looking at all of the assembled information, determine how long each project step or process will take. Add this into the mix, and plot lengths for individual bars that will represent phases or processes.
 - Shift times for results. With a general time frame in mind for each step or process, situate these within the greater Gantt chart to arrive at a deadline for each element. It can help to stagger processes to ensure smoother operations or eliminate cluster dates, which can overwhelm the project manager.

Timeline



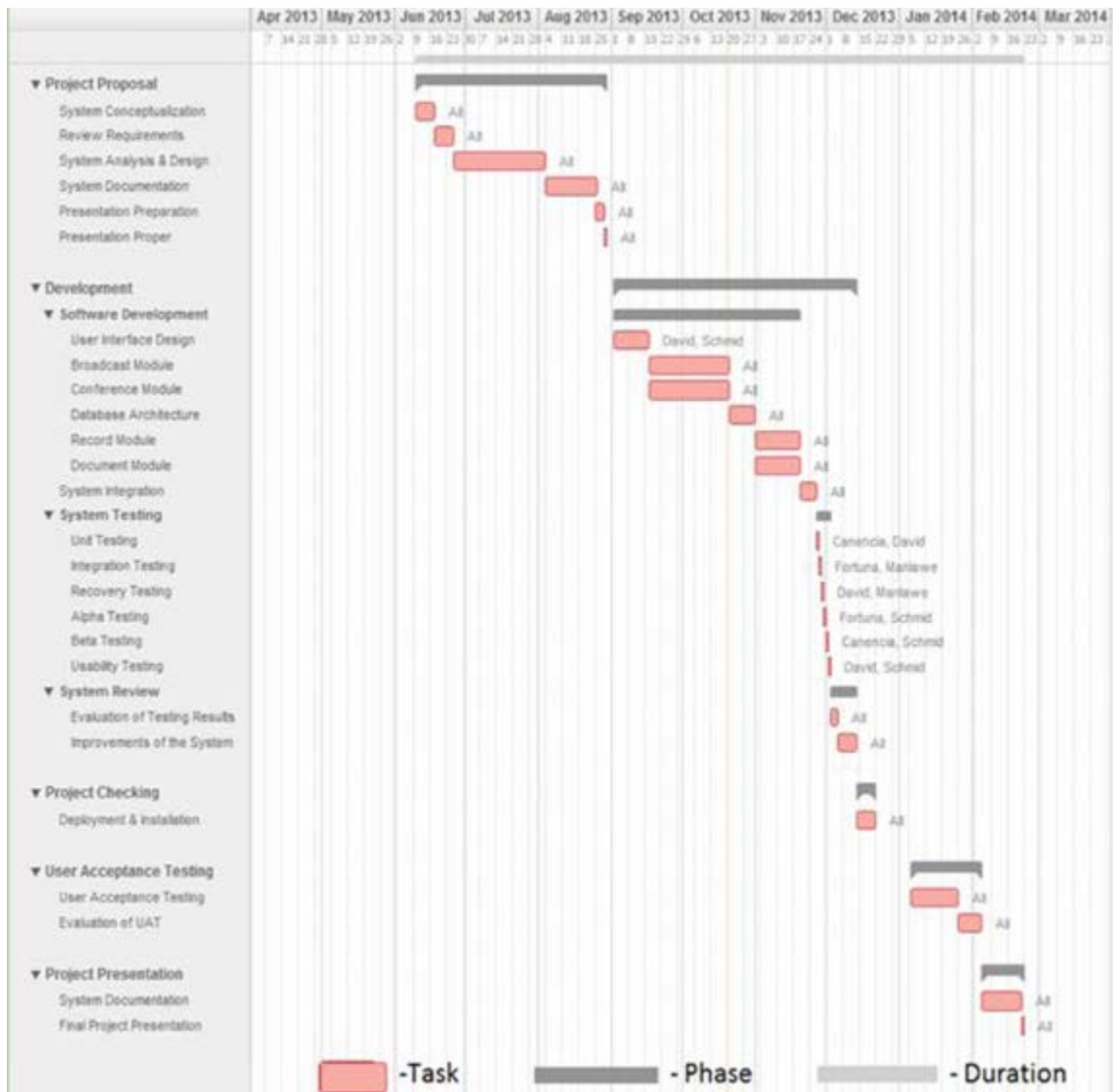
4. **Lay out all of the bars on the graph.** The Gantt chart assembles all pieces relative to a fixed deadline. Within a greater project deadline, the timeline for smaller processes becomes clear for those who are looking at the Gantt chart.



5. **Evaluate dependency or relationships between phases or processes.** Looking at the Gantt chart can also make it clear which parts of a project are dependent on others. Software tools can have advanced features that can help human decision makers to learn more from viewing the visual Gantt chart.

2. Development		
2.1 Software Development		78 days
2.1.1 User Interface Design	All	15 days
2.1.2 Live Stream Module	All	33 days
2.1.3 Database Architecture	All	10 days
2.1.4 Conference Module	All	34 days
2.1.5 Record Module	All	19 days
2.1.6 Document Module	All	19 days
2.2 System Integration	All	7 days
2.3 System Testing		6 days
2.3.1 Unit Testing	All	1 day
2.3.2 Integration Testing	All	1 day
2.3.3 Recovery Testing	All	1 day
2.3.4 Alpha Testing	All	1 day
2.3.5 Beta Testing	All	1 day
2.3.6 Usability Testing	All	1 day
2.4 System Review		11 days
2.4.1 Evaluation of Testing Results	All	3 days
2.4.2 Improvements of the System	All	8 days

6. **Implement the Gantt chart in software.** Many project managers choose to take all of the information on a Gantt chart and input it into a software environment. For example, the Excel spreadsheet tool can be an effective home for a Gantt chart. Choose appropriate software and digitize the Gantt chart to help work it into a greater software architecture.



Reference: <http://www.wikihow.com/Create-a-Gantt-Chart>

Producing a Gantt chart