

Project Management

CS-370: Software Design and Development

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What is the Executive Champion?

The Executive Champion is “the highest ranking executive who supports the project”

Executive Champion

- In the event a CS-370 team is experiencing problems, I will serve as Executive Champion.
- Please contact me as-soon-as-possible if issues such as:
 - There is conflict on your team.
 - One or more team members are not contributing to the project.
 - The team cannot reach a consensus on a key decision (a stalemate).

Project management charts: task-based versus time-based

- Task-based: illustrates task dependencies and implies a certain prioritization of tasks (based on the dependencies).
 - PERT charts are task-oriented
- Time-based: illustrates a timetable when tasks will be started and completed.
 - GANTT charts are time-oriented

PERT: A task-based chart

- PERT stands for *Program Evaluation and Review Technique*.
- PERT charts organize tasks in a dependency order.
 - Tasks that require no dependencies are listed first.
 - Tasks with dependencies are listed once the dependencies are completed.

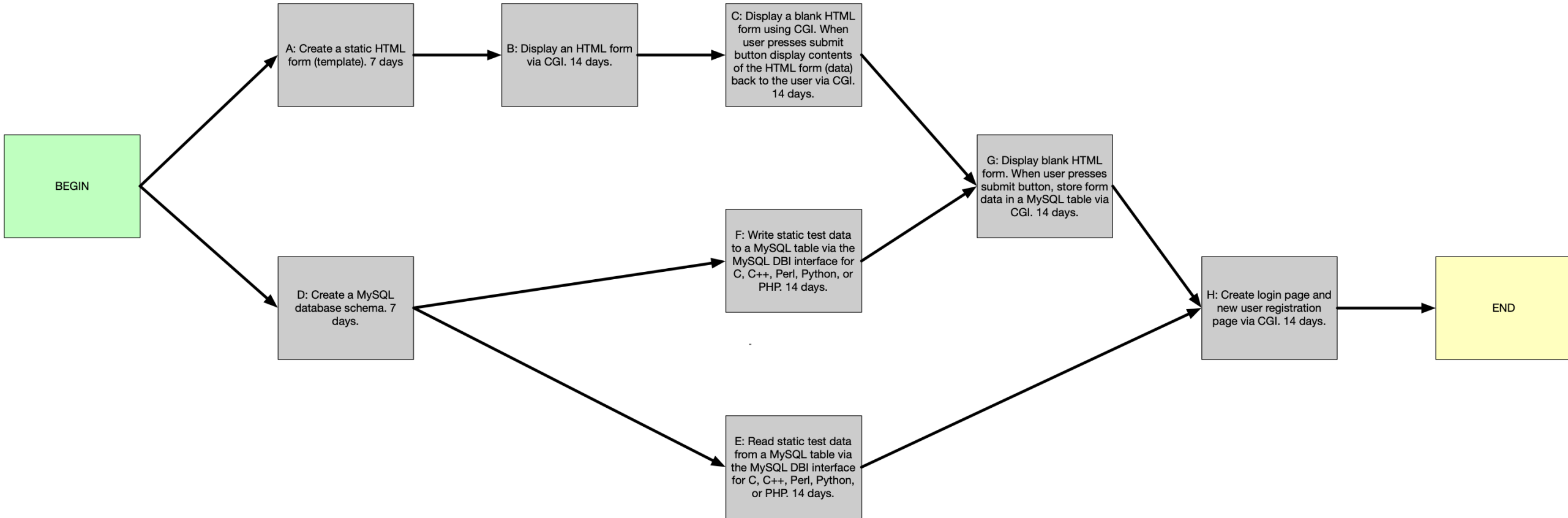
GANTT: A time-based chart

- GANTT chart tasks have projected begin and end dates.
- GANTT charts do not illustrate dependencies between tasks.

Example PERT chart: list of tasks for an auction website

TASK	TIME (DAYS)	PREDECESSOR TASKS
A. Create a static HTML form (template)	7	none
B. Display an HTML form via CGI	14	A
C. Display a blank HTML form using CGI. When user presses submit button display contents of the HTML form (data) back to the user via CGI.	14	B
D. Create a MySQL database schema.	7	none
E. Read static test data from a MySQL table via the MySQL DBI interface for C, C++, Perl, Python, or PHP.	14	D
F. Write static test data to a MySQL table via the MySQL DBI interface for C, C++, Perl, Python, or PHP	14	D
G. Display blank HTML form. When user presses submit button, store form data in a MySQL table via CGI.	14	C, F
H. Create login page and new user registration page via CGI	14	E, G

Example PERT chart: list of tasks for an auction website



Auctions Website

Display week: 1

GANTT chart templates (Excel)

- GANTT chart templates are available for import into Microsoft Excel or LibreOffice Calc at <https://create.microsoft.com/en-us/templates/gantt-charts>