



Prifysgol Cymru
Y Drindod Dewi Sant
University of Wales
Trinity Saint David

200
1822 - 2022

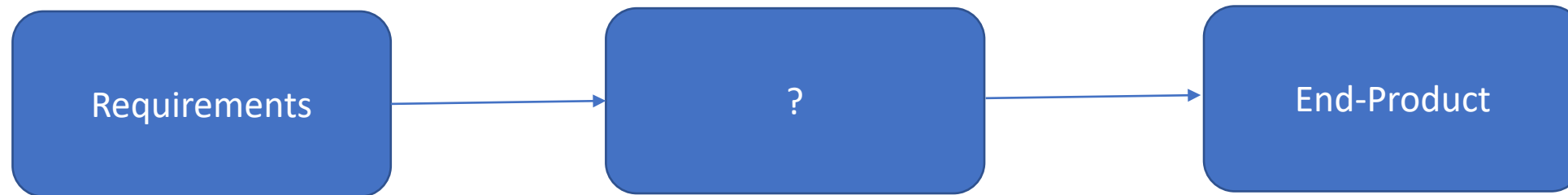
Man Geni Addysg Uwch yng Nghymru
Where Higher Education Began in Wales

Development Based Projects

- Introduction
- The steps involved
- Example Project scope
- Activity
- Quiz
- Summary

Introduction- Projects

- Important element in this course
- Opportunity to engage in practice oriented investigative and development tasks
- Helps to gain research skills, insight about real-time work environment and improves analytical and communication skills

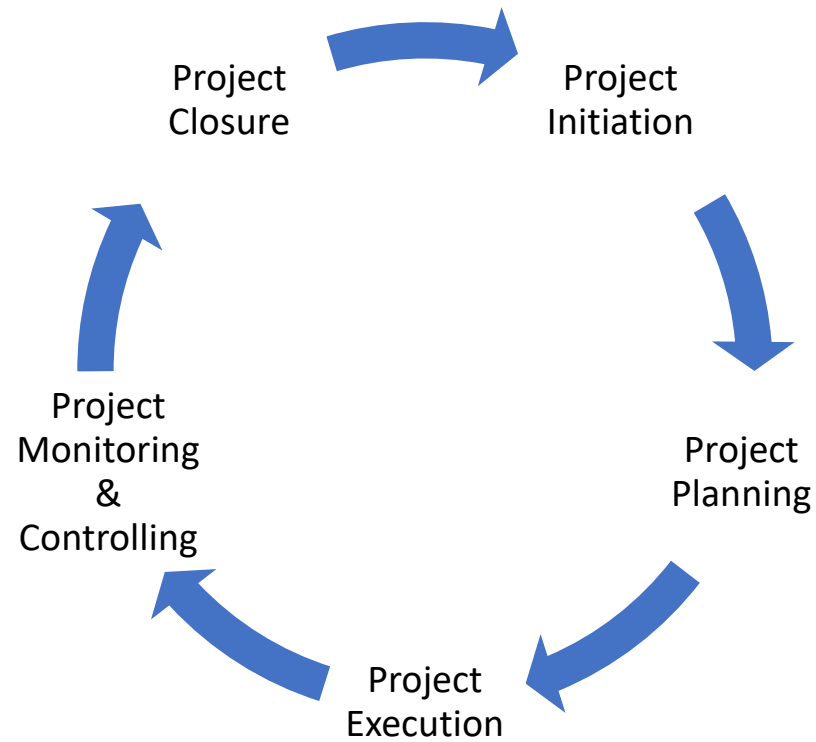


Project Life cycle phases

- Projects follow a life-cycle
- Guides the developer in every phase



Project Life cycle phases



Project Initiation phase

- bring together all of the available information
- define the **project's scope**, cost, and resources
- Identify the problem that the project is trying to solve.

Project Initiation phase- Project Scope

- key element of project planning
- sets boundaries on your project
- define goals, deadlines and deliverables
- avoids delays and overwork

What is required to define a project scope?

Defining Project Scope

- Outline your project objectives
- *Project objectives are what you plan to achieve by the end of your project*
- Resource planning
- Additional project requirements

Project Objectives vs Goals

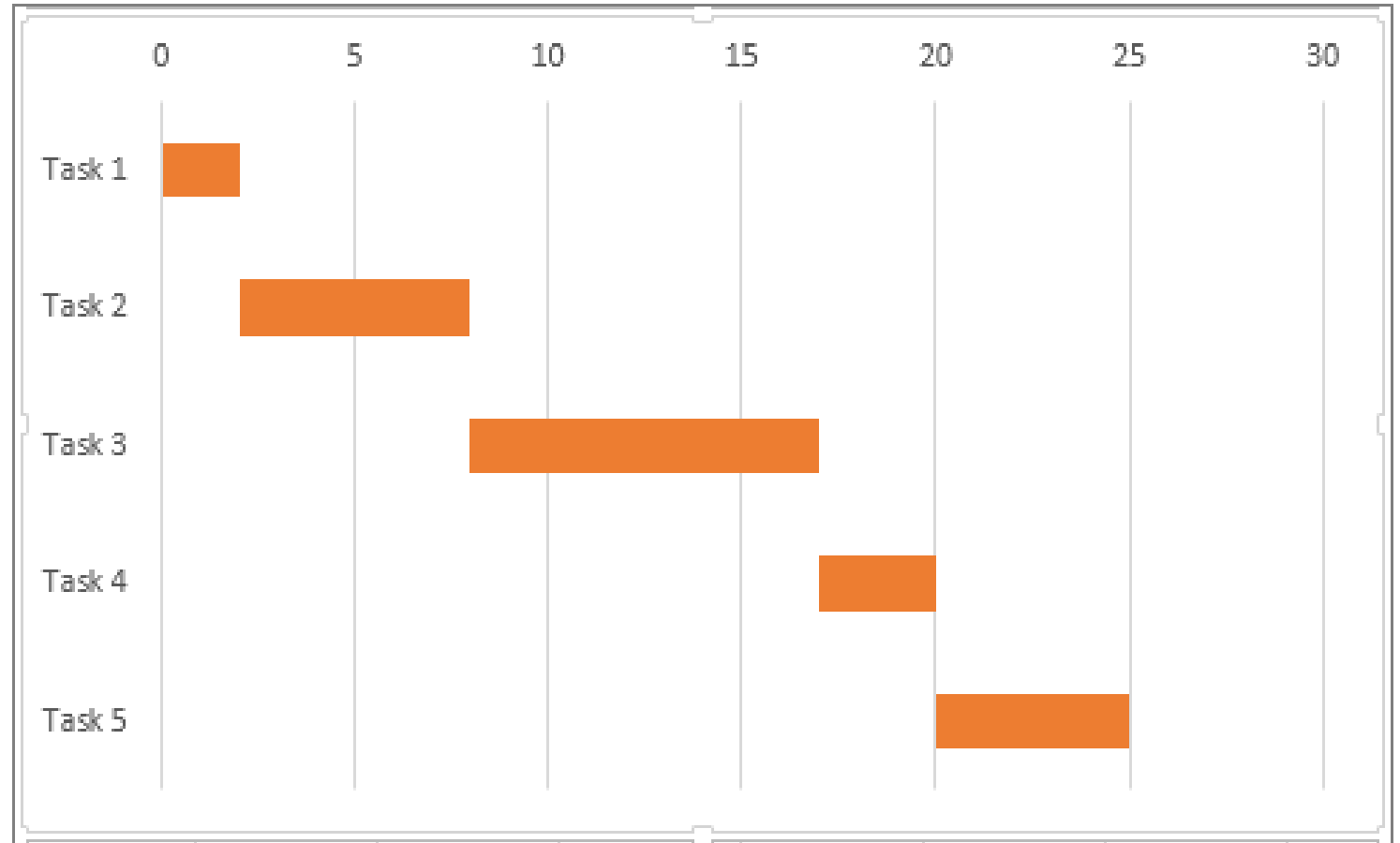
A goal is an achievable outcome that is generally broad and longer term	an objective is shorter term and defines measurable actions to achieve an overall goal
Goals can be intangible and non-measurable	objectives are defined in terms of tangible targets
<i>“provide excellent customer service”</i>	<i>“reduce customer wait time to one minute”</i>
<i>“Make it easier for the engineering team to receive and respond to customer feedback.”</i>	<i>“Add five new ways for customers to find the feedback form in-product within the next two months.”</i>

Defining Project Scope

- Why are we working on this project? What are our ultimate goals and deliverables?
- What restrictions do we have? How much budget, headcount, and resources are available? Which team members will be working on this?
- When are our deliverables due? What timeline do we have to hit?
- What is out of scope?

Draft Project Scope

- Project objectives
- Resources
- Deliverables
- Gantt Chart and timeline
- Out of scope



Project Scope - Activity

- Project objectives
- Resources
- Deliverables
- Roadmap/Gantt Chart and timeline
- Out of scope
- For your topic, draft project scope

Project scope statement

Project: Rebuilding your company website.

Project objectives: Transfer website backend onto MS access platform in order to improve flexibility.

Resources:

- Web Developer-1, 30 hours of work a week for 4 weeks.
- PHP editor, HTML and MS Access

Deliverables:

- Database migration from existing to MS Access by late March 2023
- Entire website on new CMS by April 2023

Project roadmap and timeline:

- Feb 28: Begin scoping
- March 10: First review
- March 17th–June 3rd: content transfer
- March 31st: Testing
- April 4th: website is live

Out of scope:

- New frontend system
- Customizable web pages on new website

Project Scope - Activity



Project scope statement

Project: Rebuilding your company website.

Project objectives: Transfer website backend onto MS access platform in order to improve flexibility.

Resources:

- Web Developer-1, 30 hours of work a week for 4 weeks.
- PHP editor, HTML and MS Access

Deliverables:

- Database migration from existing to MS Access by late March 2023
- Entire website on new CMS by April 2023

Project roadmap and timeline:

- Feb 28: Begin scoping
- March 10: First review
- March 17th-June 3rd: content transfer
- March 31st: Testing
- April 4th: website is live

Out of scope:

- New frontend system
- Customizable web pages on new website

Project Planning Phase

Defining how to do & What needs to be done
criteria: what's *Possible, Passionate, and Pervasive*

Project Planning Phase

Create

- a **project plan**

Create

- a financial plan

Create

- a **resource plan**

Create

- a **quality plan**

Create

- a **risk plan**

Create

- an **acceptance plan**

Create

- a **communication plan**

Create

- a procurement plan

Project Execution Phase

Create tasks

Communicate



Project Monitoring & Controlling Phase

- **keeping a Project on track**
- **capture the data**
- **track progress**
- **comparing the actuals against the plan**
- **figuring out the options for pivoting the project**

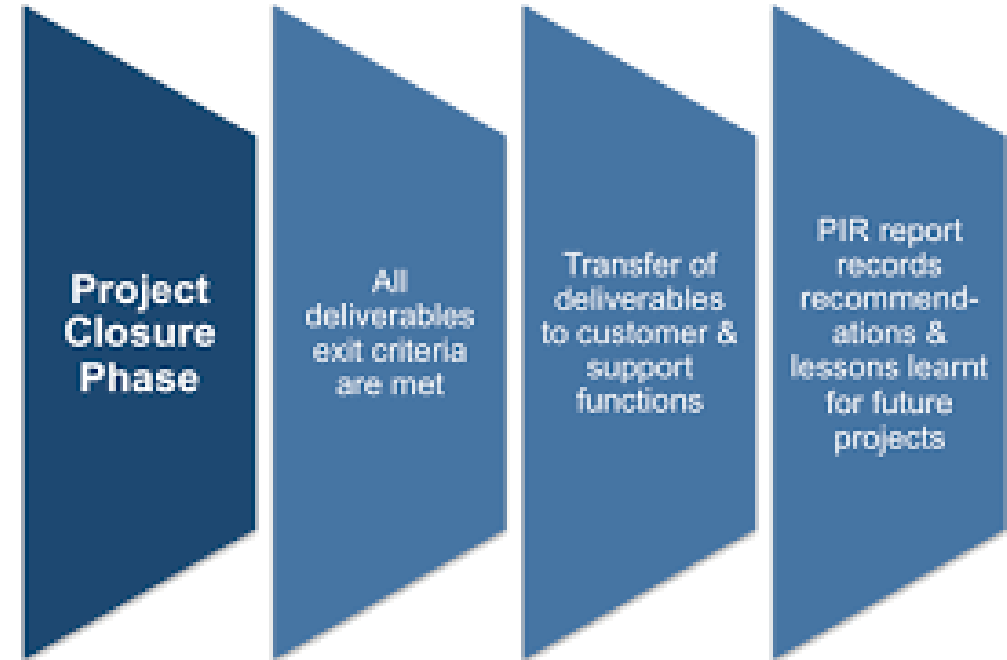


Project Closure Phase: Ending A Project

last phase in the [project lifecycle](#)

requires, a handful of project documents

Put together a final project report



Quiz – 10 minutes



Summary

phases in the [project lifecycle](#)

Kick start and initiate your projects

Diolch/Thank You Any Questions?

Required reading:

Programming Logic and Design, Comprehensive, Cengage Learning, 2018 by Joyce Farrell

Reference Materials:

Starting Out with Programming Logic and Design, Pearson Education, 2015 by Tony Gaddis