





# **National Workshop 5**











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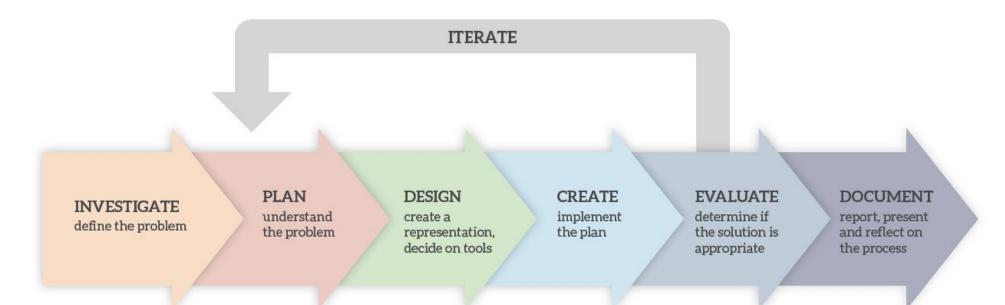


#### By the end of this session participants will have:

- Experienced the design phase for an original ALT1 project.
- Enhanced their team working, communication and collaboration skills.
- Acquired additional skills, knowledge and ideas on how they will facilitate ALT1 in their own classrooms.







**The Design Process** 



INVESTIGATE define the problem

PLAN understand the problem DESIGN create a representation, decide on tools



3

#### **DESIGN**

create a representation, decide on tools Map

Diagram

Storyboard

Mock-up

Wireframe

Paper Prototype



# **Learning Outcomes**

Students learn about:	Students should be able to:		
Information systems		understand and list user needs/requirements before defining a solution	
User-centred design Web design		create a basic <b>relational</b> database to store and retrieve a variety of forms of data types	
File systems and <b>relational</b>		use appropriate programming languages to develop an interactive website that can display information from a	
databases	(	database that meets a set of users' needs	
Design process			



# Learning Outcomes (don't try and do too much!)

technologies

					Working in a team. assigning	1.20 collaborate and as	ssign
		S2: Evaluation and testing					mpu
1.15	consider the interacting universal de	Debugging and long-term outcomes				e pe olde nd n	
	the factors t	System test	2.20 identify and fix/debug warnings and errors in computer code and modify as required			ınica	
1.16	compare tw		2.21 critically reflect on and identify limitations in completed code and suggest possible improvements			he	
117			2.22 expla	in the	different stages in software	testing	
1.1/	describe the lives of people	and the second s			se a range of methods for ide bstract common features	ntifying patterns and	Ĺ
1.18	recognise the	e diverse rc		2.3 ii	mplement modular design to o	develop hardware or	

S1: Designing and developing

software modules that perform a specific function

illustrate examples of abstract models

Design process

1.19 identify features of both staged and iterative design and development processes

1.20 collaborate and assign roles and responsibilities within a imputing task

e their short-term e perspectives, considering different olders and end users

and modify computer programs

unicate on the design and development

nality of an



## **Learning Outcomes**

1.18 recognise the diverse ro

technologies

				Working in a team. assigning	1.20 collaborate and as	ssign roles and responsibilities within a
		S2: Evaluation and testing				mputing task
1.15	consider the interacting '	Debugging	and long-ter	ns and decisions to determine rm outcomes		e perspectives, considering different olders and end users and modify computer programs
	universal de the factors t	Testing: Unit test, <b>Function test</b> , <b>System test</b>	2.20 identify and fix/debug warnings and errors in computer code and modify as required			ınicate on the design and development
1.16	compare tw different de					he
117	describe the		- 11 / (E) - 11 / (E)	different stages in software t		
lives of peop		St. District		use a range of methods for ide abstract common features	ntifying patterns and	d

S1: Designing and developing

implement modular design to develop hardware or software modules that perform a specific function

illustrate examples of abstract models

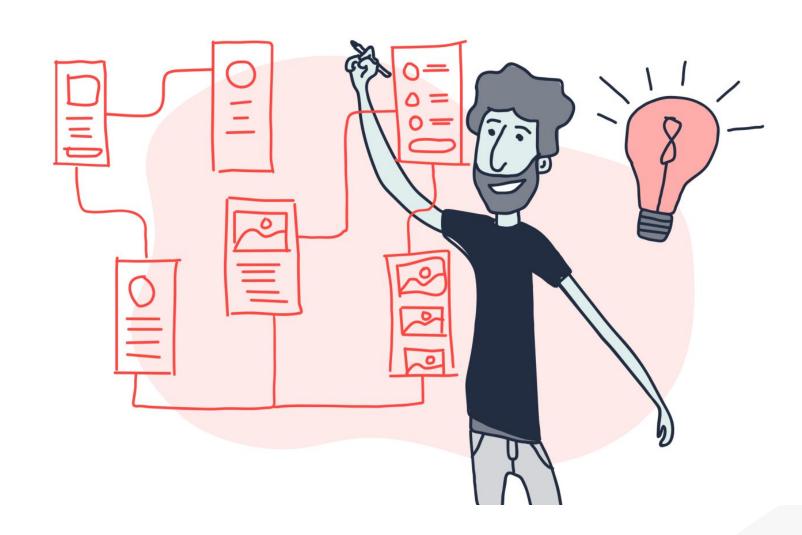
Design process

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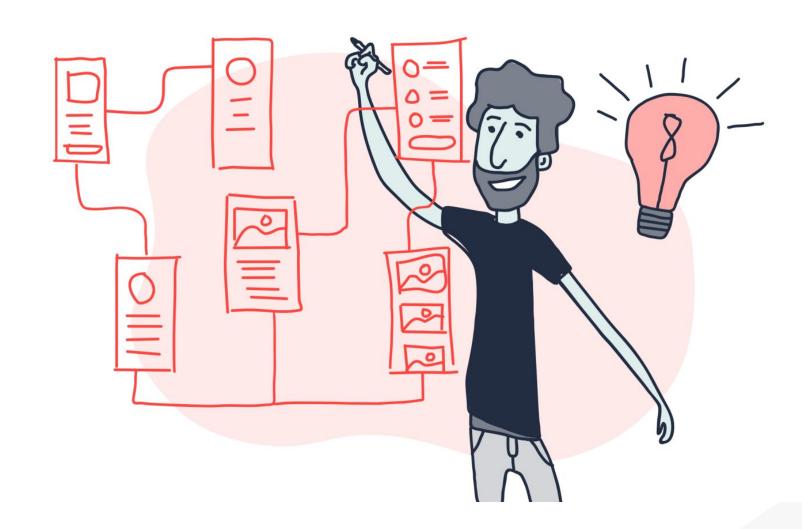
development processes







#### Wireframes



# Wireframing





https://www.youtube.com/watch?v=8-vTd7GRk-w&feature=youtu.be

## Wireframing





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## Wireframing





https://www.youtube.com/watch?v=qpH7-KFWZRI&t=29s



#### **Wireframing Benefits**

Structure
Layout (hierarchy)
Content
Functionality
Refinement
Understanding

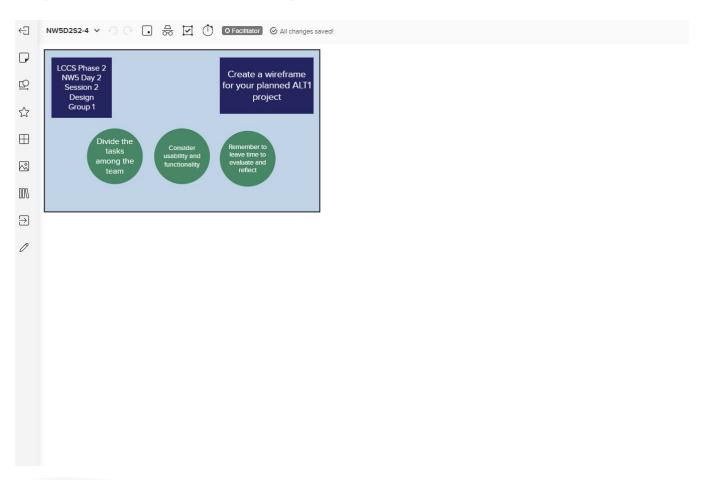


#### **Wireframing Tips**

Keep them Simple
Use a Grid
Short, Sharp Annotations
Encourage Feedback



#### Introduction to digital wireframing tool





Page:
Project:
Client:
Author:
Notes:
nunile



#### **Breakout Task: Create a wireframe for your planned ALT 1**





#### **Breakout Task: Create a wireframe for your planned ALT 1**

#### Possible timeline for the next 45 minutes:

5 minutes to divide the tasks among your team

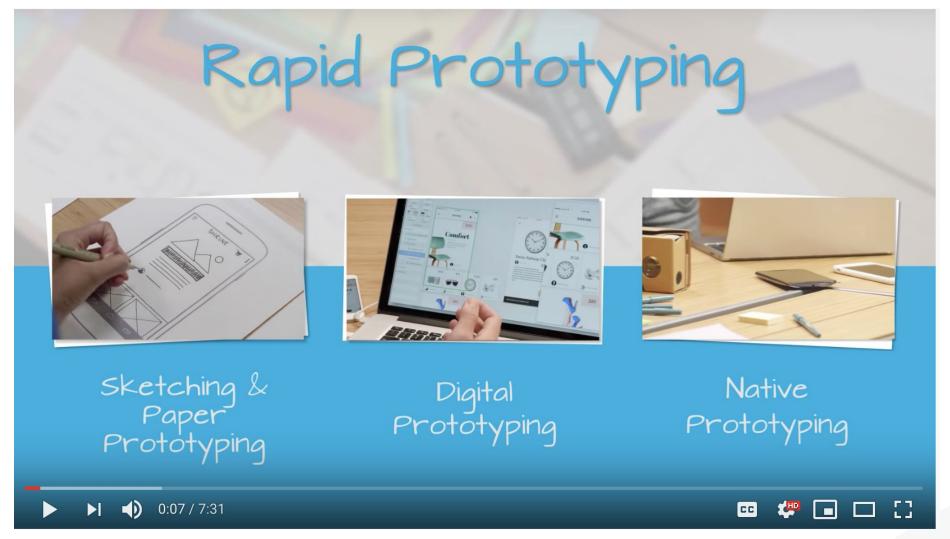
25 minutes to create respective elements of wireframe

15 minutes review in group and make necessary changes/refinements











CREATE

implement the plan **EVALUATE** 

determine if the solution is appropriate DOCUMENT

report, present and reflect on the process





#### What did you do?

How did you do it?

What has challenged your thinking?

**Making Links** 

Which LOs did you use?



**Problems** 

How will the backend work?

**Roles & Group Dynamics** 



