

5 - Research & ROIP Prep

Lesson 5 : Brainstorming & Research towards ROIP

Do Now / On Whiteboards

- What is your favourite thing you have learnt so far?
 - What Module was it in?
 - What did you expect to learn about that you haven't yet?
 - What Specialist / Innovation Module might that be in?
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ROIP Brainstorming

What areas are you interested in?

Brainstorm ideas / No bad ideas at this stage

- What did you find interesting / exciting.
 - What questions could you ask?
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Mind Map Exercise

ROIP Brainstorm Mindmap

```
Error parsing Mermaid diagram!
```

```
Cannot read properties of null (reading 'getComputedTextLength')
```

Mindmapping

- <https://tinyurl.com/ROIPmm> <https://mermaid.live/>
- For each module

- Think about what you saw
 - Was it interesting / exciting?
 - Did it raise any questions?
 - If Not delete the module (to tidy up, I expect most of you to delete a lot of the modules)
 - Remember to save the image and text somewhere
-

Then filter the ideas

What does the project need to allow me to include?

What my question will I have to let me do?

Can I find info safely?

What does the project need to allow me to include?

What does the project need to allow me to include

- **Identify, design, plan and complete** an individual project, applying a range of **organisational skills and strategies** to meet **agreed objectives**.
 - **Obtain, critically select and use information** from a **range of sources**; analyse data, apply it appropriately and demonstrate understanding of any relevant, connections and complexities of the topic.
 - Select and use a **range of skills**, including new technologies, solve problems, take decisions critically, creatively and flexibly, to achieve planned outcomes.
 - **Evaluate** outcomes both in relation to agreed objectives, as well as own learning and performance.
 - Select and use a **range of communication skills** and media to present evidenced outcomes and conclusions in an appropriate format.
-

What will I have to do

What will I have to do?

An investigation into a cyber security related topic of your choice.

Outputs :

- Production Log / forms for all the stages of the project
 - Gantt Chart / Planning documentation
 - A list of the sources you looked at what you used and why (Evaluation Table of Resources)
 - 5000-word essay
 - Filmed Presentation
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Checking your idea

- Is the title clear and focused on an issue which can be managed:
 - within the timescale, available resources and word total?
 - Do the title and proposed action plan indicate that you will be capable of:
 - investigating and researching the topic or carrying out the activity or task independently?
 - Is there a danger that you will be unable to approach the project impartially and in a balanced way?
-

Research for ROIP

The most important thing about your project is : **Can you find reliable information sources about it?**

You can log your searches and what good things you find in any of these ways.

- "Search Progress" (in the assignment and by far the easiest)
- Obsidian Web Clipper (the most integrated)
- Copy the blank "Evaluation Table of Resources" for each idea and upload it here (will need different names for each one)
- Zotero

If you can't find at least 3 good sites for info it's not a good idea ? Wikipedia is not a good source but it's references are often a great place to look.

You should find at least 3 specific sites for at least 2 ideas.

RECORD OF INITIAL PLANNING

Candidate's Full Name: Change Me **City & Guilds Registration Number:** Change Me

To be completed by the candidate

Note: This section records initial meeting(s) with your supervisor to agree your project proposal.

<p>Your first idea for topic (to include overall aim)</p>	
<p>Your first ideas for research and development of your project</p>	
<p>Your supervisor's main comments and advice</p>	

SMARTER Targets

- **Specific** - What exactly will you do?
- **Measurable** - How will you know you've succeeded?
- **Achievable** - Is it realistic?
- **Resourced** - Have you allocated enough time? Have you got enough information?
- **Time Tabled** - By when will you achieve each step?
- **Evaluated** - Keep checking if you are on track
- **Reviewed** - Sometimes changed circumstances mean a modification in the goal is necessary

Next Steps : MEG Checking your idea

- Is the title clear and focused on an issue which can be managed:
 - within the timescale, available resources and word total?
 - Do the title and proposed action plan indicate that you will be capable of:
 - investigating and researching the topic or carrying out the activity or task independently?
 - Is there a danger that you will be unable to approach the project impartially and in a balanced way?
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ROIP

- Start your ROIP (Page 6 of the Production Log) by filling in the
 - "Your first idea for topic (to include overall aim)" and
 - "Your first ideas for research and development of your project" boxes.
 - And fill in the back up idea form as well.
 - Can I form it into a question?
 - Can I find good information sources?
 - Will the idea allow me to include everything required to do well?
 - Can I do this safely?
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