

Bridging the Gaps between GCSE and A Level: What you will learn this term

- Equip yourself with the fundamental concepts/steps of building a complete system application.
- Learn about Algorithms and various techniques for expressing algorithms
- Identify the various steps in the Software Development Cycle(SDLC) and the Input- Output(IPO) model
- Get hands on with downloading, installing and working with third party libraries.
- Get hands on experience in building your first software application.

Your Task: is to build a blog website using Python and third party library, the Django Framework.

Task 1: Analysis

I have provided you with a link to YouTube videos. For the first task; you are expected to watch 1-5 of the videos and complete the following.

Write a report using the first column words as headings.

Introduction	Describe the project. What is it, what will it do, who is it for etc.
Computational Methods	Explain why this problem is solvable by computational methods and the benefits of solving the problem in this way. (Computational method means be able to use Computer Systems/software to solve a problem)
Stakeholders	Who is going to use the system? Why? Explain who they are (age range, computing ability etc.). Also add details of who the client is (you can make up your own client, it could be your local community blog where people comments on the current lockdown) , if you have one.
Research	Look at other existing blog while you are watching the videos and making notes. print screens evidence is expected in your write up. Note the features in the blogs you researched, and how these could influence how you will implement your project, explain this using screenshots.
Essential Features	Identify the essential features of your project and explain each feature.
Limitations	Explain and justify any limitations of your proposed solution. Challenges your might face: for some of you, it could be the first time you are writing software and the learning curve.
Requirements	List any requirements including hardware and software requirements. Also include data requirements. Justify why requirements are there (minimum specification taken from Microsoft Website for a computer running Windows 10..., Number of RAMs etc.)
Success Criteria	These will be used to measure your solution to your expectations of the proposed solution.

Link to Tutorial: <https://www.youtube.com/watch?v=UmljXZltpDc&list=PL-osiE80TeTtoQCKZ03TU5fNfx2UY6U4p>

Total Number of videos: 20 videos, but you are watching the first 5 videos to get started.