

# Class Task 9.1

## Suggested Answers



## Class Task 1.1 – Typical IT Projects

- From your own experience of IT either at home or at school
- List as many examples of typical IT projects that you can using the headings in the previous slide.
- EXTENSION: how do you think they were carried out?
- **Time Allowed: 15 minutes**

## Suggested Answers

### Building A New piece of Software

| Project                                       | Description  |
|---|--|
| <b>Creating updates for Windows computers</b> | Each update will have lots of new functionality that needs to be installed at once that might fix bugs, install security patches or add new features |
| <b>Creating updates for Android Phones</b>    | Each update will have lots of new functionality that needs to be installed at once that might fix bugs, install security patches or add new features |
| <b>Creating updates for iOS/ OSX devices</b>  | Each update will have lots of new functionality that needs to be installed at once that might fix bugs, install security patches or add new features |
| <b>New Operating Systems e.g. iOS 14</b>      | A new OS may change how your device runs, it might make older devices run slower. It might also change the way you interact with your device.        |
| <b>New Games e.g., Last of Us Part 2</b>      | New games are being released all the time to take advantage of developments in hardware e.g. better graphics cards, faster processors                |

### Installing a New IT System

| Project                                      | Description   |
|--|---|
| <b>Upgrading to a new operating system</b>   | This is where an Operating System (OS) will be upgraded from a previous version to a newer version  |
| <b>Installing a new operating system</b>     | This is where you might buy a new computer with no OS installed, or you might be having to delete a very old OS and start again with a new one. |
| <b>Moving to cloud-based software</b>        | This is where your software is no longer installed but is now accessed using a browser so it can run from any device                            |
| <b>Moving to virtual classrooms</b>          | Installing Teams or Zoom so that lessons can take place remotely using video conferencing   |
| <b>Installing shared virtual whiteboards</b> | This is where you install software so you can work collaboratively with students and teachers from home   |



### Installing a New Network

| Project  | Description  |
|--|--|
| <b>Upgrading your router at home</b>                     | This is where you might get a faster router or better Wi-Fi across the house                                     |
| <b>Installing Wi-Fi range extenders at home</b>          | This will need to copy your network ID so that devices can connect to your Wi-Fi in different parts of the house |
| <b>Upgrades to Computers installed at your school</b>    | Each computer will need a network card and connecting to the network router and Directory server                 |
| <b>Adding more Wireless Access Points at your school</b> | This is so you can access the school Wi-Fi from anywhere on the campus   |
| <b>Adding more ethernet points in your IT lab</b>        | This is so you can increase the number of computers available for students.                                      |

### Information Collection

| Project  | Description  |
|--|--|
| <b>New register system</b>                     | Having a system to collect who is attending lessons  |
| <b>New school Virtual Learning Environment</b> | Installing a system to track who is online and being able to share lessons and upload homework   |
| <b>Tracking your mobile phone data use</b>     | Software that will monitor how much data you are using and tell you when you approach your limit |

### Information Analysis

| Project  | Description  |
|--|--|
| <b>New register system</b>                     | Having a system to show as a graph the percentage of attendance at lessons or as a pie chart the attendance of individual students.              |
| <b>New school Virtual Learning Environment</b> | To be able to quickly show the number of students online at any given time and track the amount of time the system has been used.                |
| <b>Tracking your mobile phone data use</b>     | Have a simple graph to show the amount of data use   |
| <b>New Homework system</b>                     | To show quickly as a bar chart the marks for a piece of homework for a teacher, or to allow students to plot their progress against their marks. |



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