**P3 – Be able to repurpose technologies to extend the scope of the internet**

You task is to choose **two** or **three** different developments from each of the sub headings in the list below. (You must do **three** from each list if you are aiming for a distinction in your course work) and explain in a detailed **written report** either:

* How has a new application (development) extended the scope of the IoE
* How an existing development could be extended within the IoE
* How an existing application could be developed in a different context

You must include in your explanations the following:

* What the application is and what its function/purpose is
* How long the application has been around – if relevant
* How it relates to the IoE
* How it could be developed further in the future or change and developed in the future
* Real life examples from the research you have done.

In order to consider potential developments for the IoE it will be necessary for you to explore **existing** developments. F**or example these are products that are currently already on the market such as the Apple Watch.**

**Below is a list that could help you outline potential development projects of existing products. Note - these are NOT products that do not yet exist, these are current projects.**

**Developments**

**Body/health**

* sensors, e.g. wearable thermometer
* social safety wearables
* Wi-Fi mattress cover
* Bluetooth stethoscope
* biometric patch
* running analytics
* Bluetooth weather sensor
* Bluetooth maps for visually impaired
* Bluetooth sunglasses

**Home/garden**

* smart air conditioner
* Bluetooth tape measure
* smart locks
* smart lights
* smart batteries
* global location devices
* Bluetooth measurement jars
* Bluetooth flower pots
* wireless water shutoff
* Wi-Fi shopping lists
* solar powered window blinds
* Wi-Fi gas and carbon monoxide detectors

**City/neighbourhood**

* real-time air traffic
* smart signage
* bicycle barometer
* city dashboard
* intelligent street lights
* taxi locator
* surveillance systems
* wearable air quality sensor
* smart urban furniture
* connected car safety devices

**Industry**

* industrial smart helmet
* smart glasses for warehouses
* wireless pest monitoring
* smart paving capturing kinetic energy
* intelligent packaging
* smart luggage/cargo
* workforce driving monitors
* connected e-paper displays
* Wi-Fi cold storage monitoring
* smart noise sensors

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| * smart bottle labels * wireless calving alert sensors * real-time remote excavation   **The environment**   * environmental monitoring * wildlife tracking * flood detection network * illegal deforestation monitoring * landslide detection systems | |
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