MD design and development – exercises

Scenario:

An insulin pump is a small medical device used by individuals with diabetes to administer continuous or bolus doses of insulin to regulate their blood glucose levels. As a design team, you are tasked with gathering the user requirements for the insulin pump to ensure it meets the needs of both patients and healthcare professionals.

Task:

1) Identify the key <u>user requirements</u> for an insulin pump.

2) For each user requirement, define two <u>technical requirements</u>

You can generate requirements in these domains:

- User Interface and Usability
- Performance and Accuracy
- Safety Features
- Power and Battery Life
- Connectivity and Data Management
- Maintenance and Support
- Regulatory Compliance
- Integration with External Devices

Regulatory, quality and clinical affairs