**Functional requirements** (what the system should do):

* Store patient data and allow users to monitor progress over time

Parameters measured (O2, CO2, RR, T) – data

From a single wearable device or multiple stationary devices

Set up a database to store patient data

* Interoperability: integration with healthcare providers
* Provide patients access to educational materials and resources about their condition OR provide doctors insights and recommendations on condition management
* Communication: allow patients to communicate with healthcare providers and receive feedback OR vice-versa

**Non-functional requirements** (how the system should perform):

* The portal/app should be secure to prevent unauthorized access to patient information. Patient data is sensitive information.
* GDPR/HIPAA compliance (patient privacy)
* Accessibility: designed to be accessible to people with disabilities
* User interface design (easy and intuitive to navigate and use)
* Hosting and maintenance: where will be hosted and how it will be maintained
* Compatibility: designed to work on laptop, PC, mobile device

Human-Computer Interaction, UX

Interoperability:

<https://hl7.org/fhir/>

International Patient Summary:

<https://build.fhir.org/ig/HL7/fhir-ips/>

Use case example:

<https://www.respiree.com/>

Other examples of apps/portals

<https://newel.health/#home>

<https://www.paginemediche.it/>

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Uma imagem com diagrama

Descrição gerada automaticamente