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Healing Cocoon



Sponsor

The sponsor of this project is Instituto Superior de Engenharia do Porto. [ISEP](#)

Project Brief

The goal of the Healing Cocoon is a self-contained immersive pod designed for hospitalized children to escape into a fully personal sensory world. By stepping inside the cocoon, children are surrounded by projected visuals, ambient sound, and therapeutic scents that create a safe, isolating them from the clinical environment and reducing stress, anxiety, and pain perception during their hospital stay.

The project requirements are:

1. Our project requirements:
 1. Therapeutic Design: Create an enclosed, calming sensory environment that emotionally disconnects the child from the hospital setting during use.
 2. Smart Technology: Enable content personalization, drawing-to-projection features and caregiver app integration.
 3. Modular & Scalable Design: Ensure the cocoon is easy to assemble, transport between rooms, and adaptable to different content and hospital needs.
 4. Energy Efficiency: Optimize power consumption for continuous hospital use.
 5. User Accessibility: Design the entry, interior space, and controls to accommodate children

- of all ages, sizes, and physical conditions, including those with limited mobility.
6. Health & Safety Compliance: Meet European regulations for medical-grade electrical equipment, enclosed-space ventilation, and infection control standards.
 7. Durability & Hygiene: Ensure all interior and exterior surfaces withstand regular clinical disinfection without degradation.
 8. Business Feasibility: Consider cost-effective production, hospital procurement and storage constraints, and long-term operational viability.
2. Comply with the following EU Directives:
 1. Electromagnetic Compatibility Directive ([EMCD](#));
 2. Low Voltage Directive ([LVD](#));
 3. Machinery Directive ([MD](#));
 4. Radio Equipment Directive ([RED](#));
 5. Restriction of Hazardous Substances in Electrical and Electronic Equipment Directive ([ROHS](#));
 3. Mandatory adoption and use of the International System of Units ([The NIST International Guide for the use of the International System of Units](#))
 4. Use open source software and technologies.

Participants

Institution: Instituto Superior de Engenharia do Porto

Team N.: 6

Students:

- Ronja Kruse
- Hanna Kaczmarek
- Julie Bonnet
- Kemal Yilmaz
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Client:

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Contents

Milestones [Milestones](#)

Logbook: [Weekly Report, Meetings, Activities](#)

Report: [Report](#)

Deliverables: [Links to all deliverables](#)

Contacts

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Utilities

- [DokuWiki Syntax](#)
- [Videos on how to use DokuWiki](#)

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