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Bloem



Sponsor

The sponsor of this project is Instituto Superior de Engenharia do Porto.

Project Brief

The goal of the “Bloem” project is to develop a compact, acoustically optimized relaxation pod that can be used in modern work and learning environments. The pod is designed to allow users to briefly shut themselves off from their surroundings, reduce stress and recharge their energy. The focus is on combining functionality, user experience, and sustainability.

The project requirements are:

- Sustainability: Use of eco-friendly, recycled or natural materials to keep the ecological footprint as small as possible.
- Functionality: Effective sound insulation both inward and outward, as well as a compact design that can be easily integrated into existing spaces.
- Experience & User Comfort: Creating a pleasant atmosphere through elements such as dimmed lighting, a calm design and optional soothing sounds to support targeted relaxation periods of 5–15 minutes.
- Technological Integration: Simple, supportive technologies such as lighting control or sound systems, without unnecessarily complicating usage.
- Accessibility: Intuitive use without training, allowing the capsule to be used spontaneously during the workday.
- Durability & Maintenance: Robust materials and a well-thought-out design that enables easy cleaning, maintenance and long-term use.
- Impact: Promotion of mental well-being, reduction of stress and support for short recovery periods during the workday.

In addition:

1. 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);
2. Mandatory adoption and use of the International System of Units (The NIST International Guide for the use of the International System of Units)
3. Use open source software and technologies.

Participants

Institution: Instituto Superior de Engenharia do Porto

Team N.: 2

Students:

- Amalie Hjorth Wyke
- Timon Niedergriese
- Mohammad Jaber
- Carlota Alcaraz Miralles
- Kai-ko Dorigoni
- Lena Schilling

Project Coaches:

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- Manuel Silva (mss 'at' isep 'dot' ipp 'dot' pt)
- Pedro Guedes (pbg 'at' isep 'dot' ipp 'dot' pt)

Client:

- Client Name, email, etc.

Contents

Milestones Milestones

Logbook: Weekly Report, Meetings, Activities

Report: Report

Deliverables: Links to all deliverables

Contacts

- Amalie Hjorth Wyke, 1252460@isep.ipp.pt
- Timon Niedergriese, 1252488@isep.ipp.pt
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- Carlota Alcaraz Miralles, 1250210@isep.ipp.pt
- Kai-ko Dorigoni, 1252475@isep.ipp.pt
- Lena Schilling, 1252477@isep.ipp.pt

Utilities

- DokuWiki Syntax
- Videos on how to use DokuWiki

Acknowledgements

- Sponsor (sponsor)
- Eng.º Vítor Costa Cerqueira, DEE, ISEP (wiki installation and management)
- Prof. João Correia Lopes, DEI, FEUP (wiki template)

— *European Project Semester at ISEP* *2025/02/13 17:42*

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