BiboLink

Sponsor

ISEP

Project Brief

The BiboLink Smart Hydration System aims to provide a sustainable, tech-driven public water dispenser that offers customizable hydration options with electrolytes and vitamins. It promotes eco-friendly water consumption, reduces single-use plastics, and integrates smart technology for user engagement and data-driven city planning.

The project requirements are:

- Sustainability – Use eco-friendly materials and promote reusable hydration solutions.
- Smart Technology – Enable user customization, data tracking, and app integration.
  * Modular & Scalable Design – Ensure easy maintenance, adaptability, and expansion.
  * Energy Efficiency – Utilize renewable energy sources (e.g., solar power) where possible.
  * User Accessibility – Design for intuitive use, including for people with disabilities.
  * Health & Safety Compliance – Meet European regulations for public water dispensing.
  * Durability & Weather Resistance – Ensure functionality in outdoor environments.
  * Business Feasibility – Consider cost-effective production and operational viability.

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.5

Students:

- Till Hanfeld
- Mikolaj Wojciechowski
- Rafael Ferreira
- Kim Linthorst
- Olivia Van Staeyen
- Panna Tarnai

Project Coaches:

- Abel Duarte ajd@isep.ipp.pt
- Jorge Justo jfj@isep.ipp.pt
- Maria Benedita Malheiro mbm@isep.ipp.pt
- Maria Cristina Ribeiro mcr@isep.ipp.pt
- Manuel Silva mss@isep.ipp.pt
- Paulo Ferreira pdf@isep.ipp.pt
- Pedro Guedes pbg@isep.ipp.pt

Client:

- ISEP

Contents

- Milestones: Milestones
- Logbook: Weekly report, Meetings, Activities
- Report: Report
- Deliverables: Links to all deliverables

Contacts

- Till Hanfeld ———— (1242367@isep.ipp.pt)
- Mikolaj Wojciechowski—- (1242347@isep.ipp.pt)
- Rafael Ferreira ——— (1200950@isep.ipp.pt)
- Kim Linthorst ————– (1242323@isep.ipp.pt)
- Olivia Van Staeyen —— (1242353@isep.ipp.pt)
- Panna Tarnai ———— (1242393@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*

From:
https://www.eps2025-wiki5.dee.isep.ipp.pt/ - **EPS@ISEP**

Permanent link:
https://www.eps2025-wiki5.dee.isep.ipp.pt/doku.php?id=start

Last update: **2025/06/14 17:54**