Proposta de Projeto 2025-2026

LICENCIATURA EM ENGENHARIA INFORMÁTICA

PROPOSTA N.º

*TÍTULO**	Dynamic Dashboard Generation Platform 2.0 - backend
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ALUNOS(S)	1
ÁREA DE INVESTIGAÇÃO	*Ambientes Imersivos e Realidade Virtual*
CENTRO DE INVESTIGAÇÃO	*INESC TEC - HUMANISE*
DEPENDÊNCIAS	Clique aqui para introduzir texto.
*APRESENTAÇÃO**	This project aims to develop an innovative web platform for creating dynamic and configurable dashboards, adaptable to any type of data or domain, enabling non-technical users to create intuitive visualizations. The system will feature a robust backend for data management and scalable APIs. Key challenges include designing a flexible and scalable core, managing diverse data sources (JSON, SQL, NoSQL, external APIs), implementing authentication and authorization (OAuth2/JWT), creating models to store dashboard configurations, and ensuring performance for multiple users. Clear API documentation will be essential to facilitate usage and integration
*OBJETIVOS**	**1. Develop a Dynamic and Configurable Dashboard Platform** • Design and implement a web platform that allows non-technical users to create and customize dashboards adaptable to any data type or domain. • Ensure the interface is intuitive and supports diverse visualization options. **2. Implement a Scalable and Flexible Backend System** • Develop a robust backend to manage data from multiple sources (e.g., JSON, SQL, NoSQL, external APIs). • Integrate scalable APIs with proper authentication and authorization mechanisms (e.g., OAuth2, JWT) to ensure security and multi-user support. **3. Optimize for Usability and Performance** • Create models to store dashboard configurations efficiently while ensuring high performance for concurrent users. • Provide comprehensive API documentation to facilitate integration and usability by developers and end-users.

* Campos de preenchimento obrigatório

NOTA: a totalidade deste documento (exceto esta linha) não deve exceder <u>uma</u> página.