



Hakunamatata - DEMUX 2024

Round - 1

Abstract

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Problem Statement: SE PS 0 - Traditional whiteboards and digital boards are often not versatile or advanced enough to be used in modern educational, professional and creativity settings. The current tools either limit the users to mere basic drawing and writing functions or they are too complicated with steep learning curves that make it impossible to be productive. There is a need for a smart board solution that can meet both beginners and experts needs by providing an extensible platform that can suit different complexities and user requirements.

Purpose and Objective: The project aims at developing a web-based Smart Board which will

- Be usable across various sectors ranging from education, design and business presentations etc., thus delivering a seamless experience for its users
- It will have two modes; Basic mode for simple tasks like sketching, drawing 2D objects, basic 3D objects with possibilities of adding images, videos and so forth.
- Advanced mode will take these features further by incorporating 3D board, map integration, AI based tools as well as calculators hence making it suitable for more complex tasks and professional usage scenarios.

Abstract:

The Smart Board project aims to narrow the gap between traditional board and digital board functionalities, providing a flexible platform that can be accessed through a web interface. Users can easily sketch, easily draw 2D shapes and some 3D objects in basic mode as well as

enhance their work with pictures and videos. This mode offers an intuitive 2D workspace designed specifically for educational purposes and simple graphic design tasks.

By introducing a three-dimensional board environment, Advanced mode moves the Smart Board to another level where users will interact with more complicated elements like maps, and AI-powered features. It also features advanced calculators for complex computations which make it perfect for engineering, architecture, data visualization among others. The friendly user interface of Smart Board coupled with its scalable functionalities makes it an ideal tool for both beginners and experts alike as it can handle any requirement-based task.