TechBook

A note taking application for use during live classes (whether online or onsite), the application will be composed of blocks, each can have a custom type or functionality (text block, code block, …), the application builds up upon an interactive notebook (similar to colab) by adding functionality useful for maths or illustration heavy classes (like physics classes).

The core functionalities of any interactive notebook:

1. Code blocks
2. Text blocks that support LaTeX

The additional functionalities:

1. Media viewer block (including photos, videos, gifs)
2. 3D models viewer block (the input is only stl files)
3. PowerPoint viewer block (the block can be configured to display the whole slides or a set of them)
4. Graph Plotting Block (the input is mathematical equation)
5. Hierarchical tracker (to better organise the material into chapters, sections, subsections, …)
6. Dark/light theme switcher
7. Easy to use resource manager for included material
8. Support drag-n-drop for images and other supported files into their corresponding block
9. Not online dependent
10. Cloud sync is a plus