

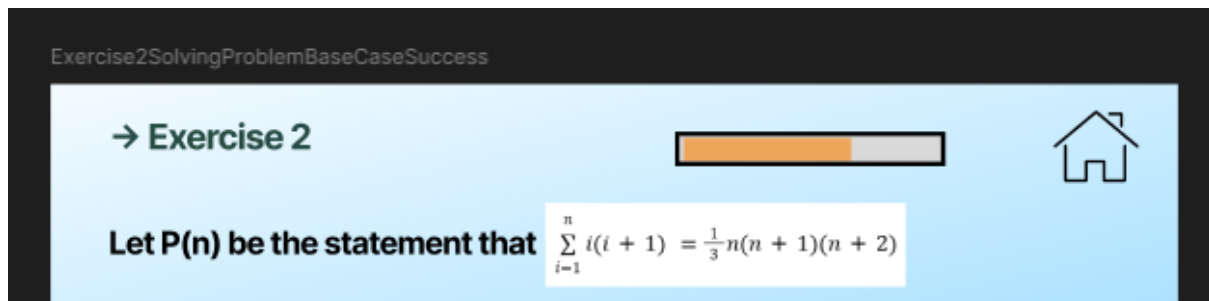
Description about Hi-Fi Prototype “Prove It”

Figma Link:

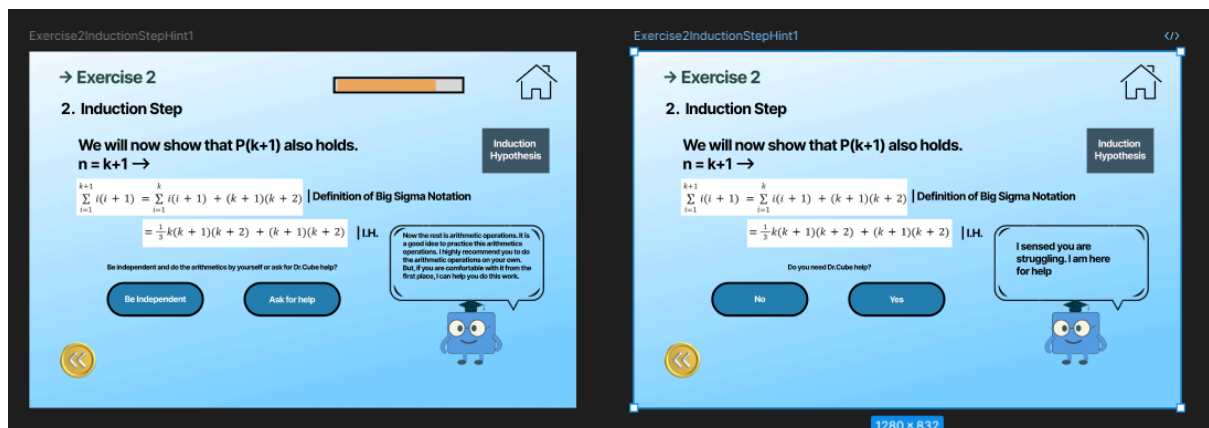
<https://www.figma.com/proto/1pa2sYVLVLou55PbUwd1XI/PROVEITCONTINUATION?node-id=0-1&t=3StyUYjbDkzI56SB-1>

(If you are unable to see the prototype, please send me your Figma email account, so I can give you the access. Thank you)

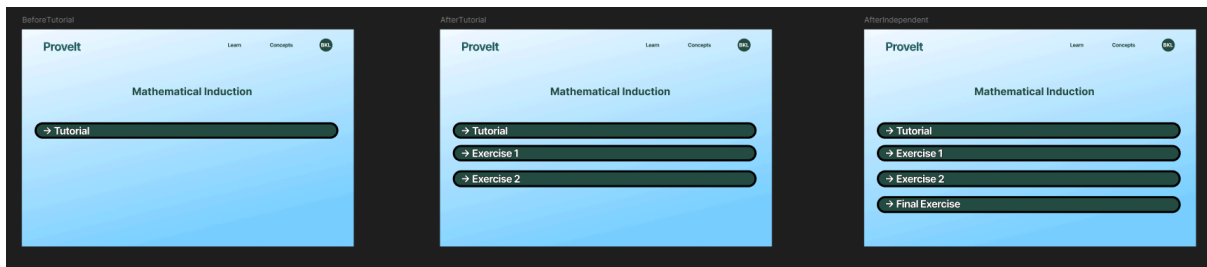
In this design, I faced several limitations in designing the interactivity of the prototype due to my lack of experience with Figma. In some slides, I have shown both types of responses from the app to the user's input in sequence. I have also displayed hints without actually clicking on Dr. Cube. I hope you understand my design and the idea behind it. I will elaborate further in the following paragraphs.



From the lo-fi prototype, I implemented several changes to the design. The first is the “User-Independent-Level Bar.” I decided to include this feature to illustrate the impact of user interaction with the app. I want users to see their progress based on the Open Learner Model. I hope to eventually design a KC-Mastery Bar, but this requires further research on the Knowledge Components (KCs) involved in writing proofs. I decided to introduce zero punishment for their independence bar. It will serve as a reminder of their progress and how far they have come.

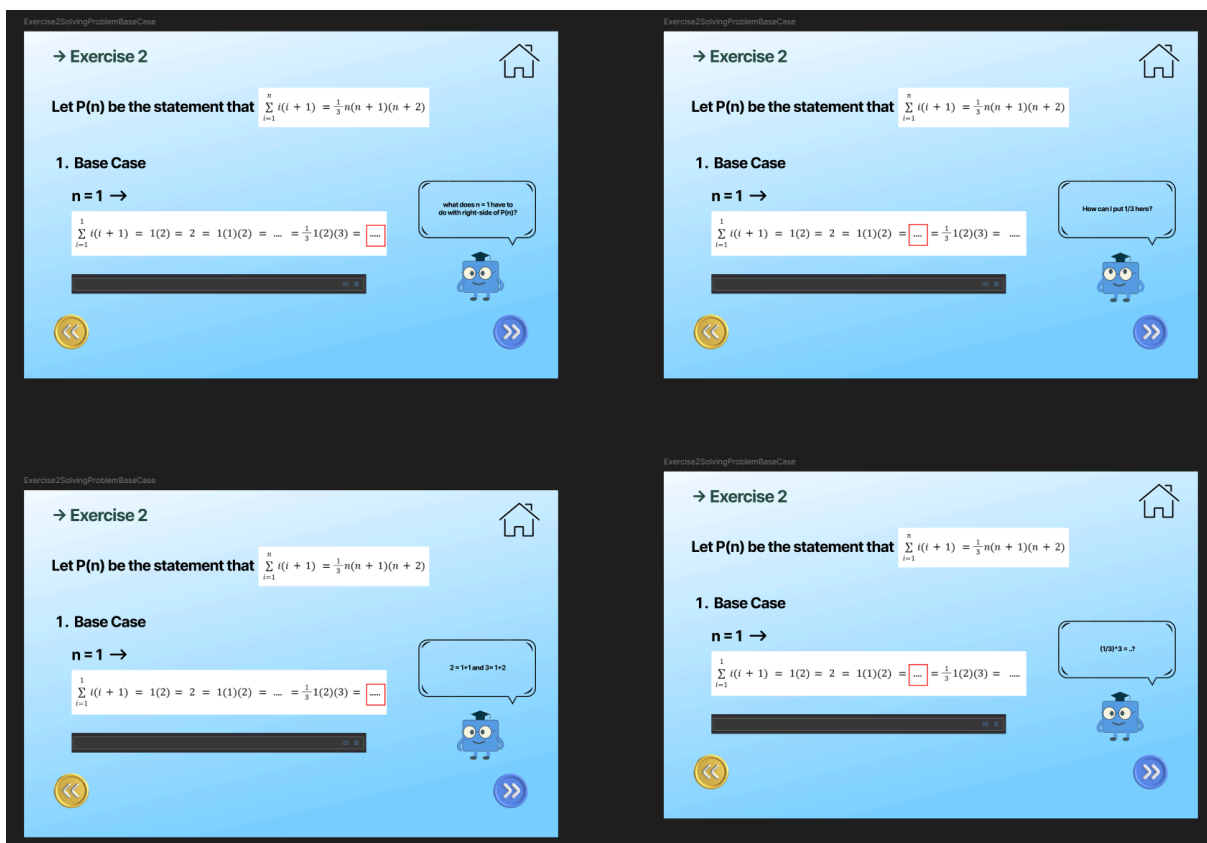


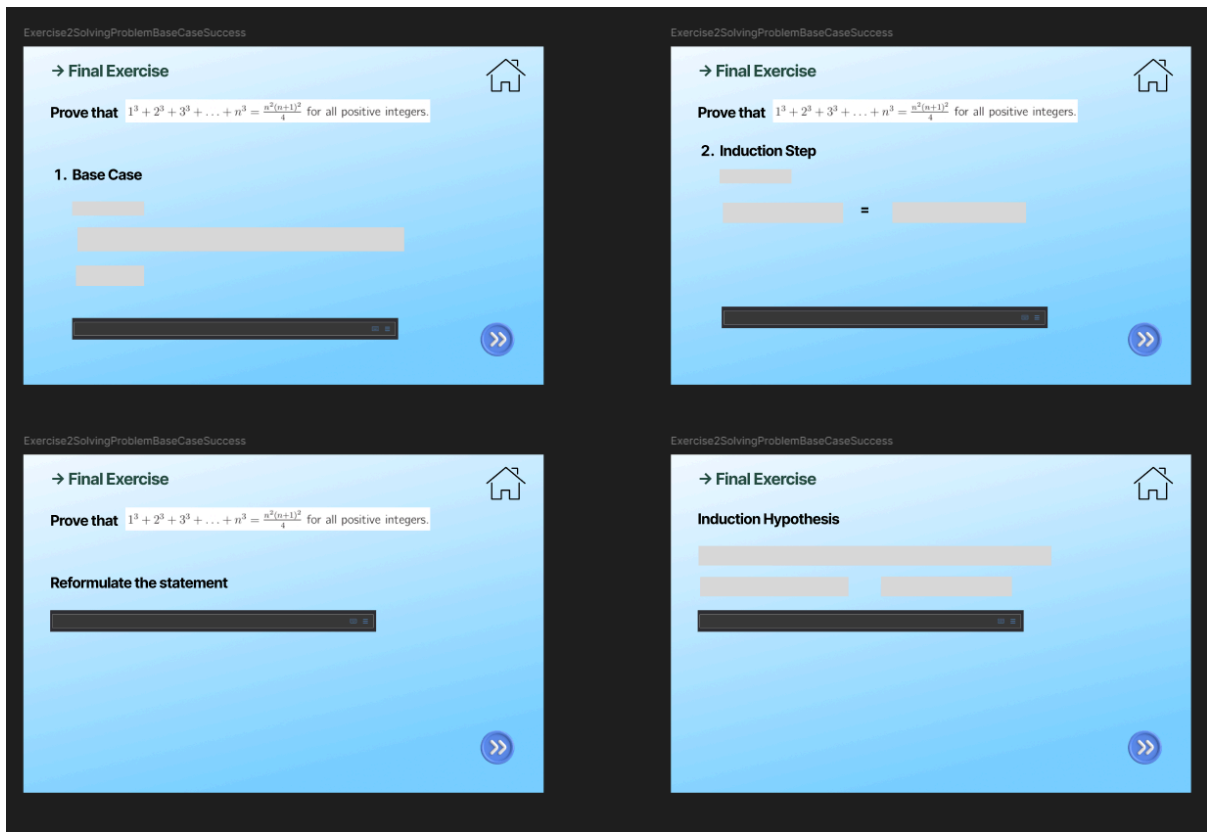
Another new feature is the choice-based component. I want to encourage users to be independent without introducing cognitive overload.



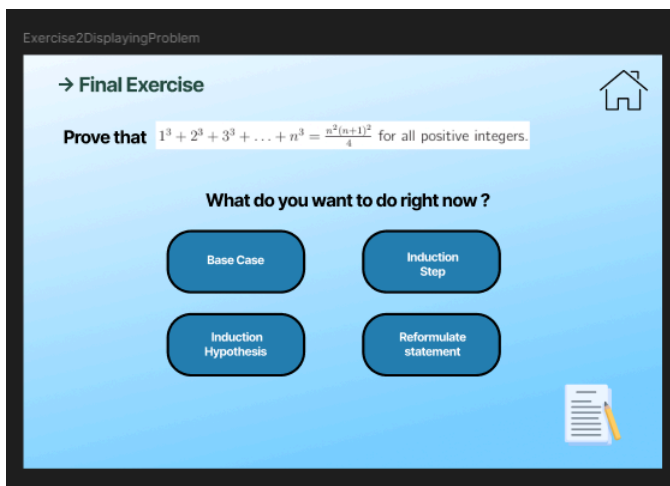
I also decided to hide exercise based on their familiarity with the app and their independence-level-bar.

I also decided to include hints for certain tasks. These hints are only triggered when Dr. Cube is clicked. The next-level hint will be revealed if the user clicks on Dr. Cube again. Each row corresponds to a different input.





This final part is an exercise where the student receives no help from Dr. Cube. It is important that, in the end, users are able to write their own proofs without any assistance. To reduce the blank page syndrome that often occurs when people feel overwhelmed, I support them with the next slide.



Thank you for your time and I am looking forward to your input and comments about the design.