MathHelper - The AI Math Helper

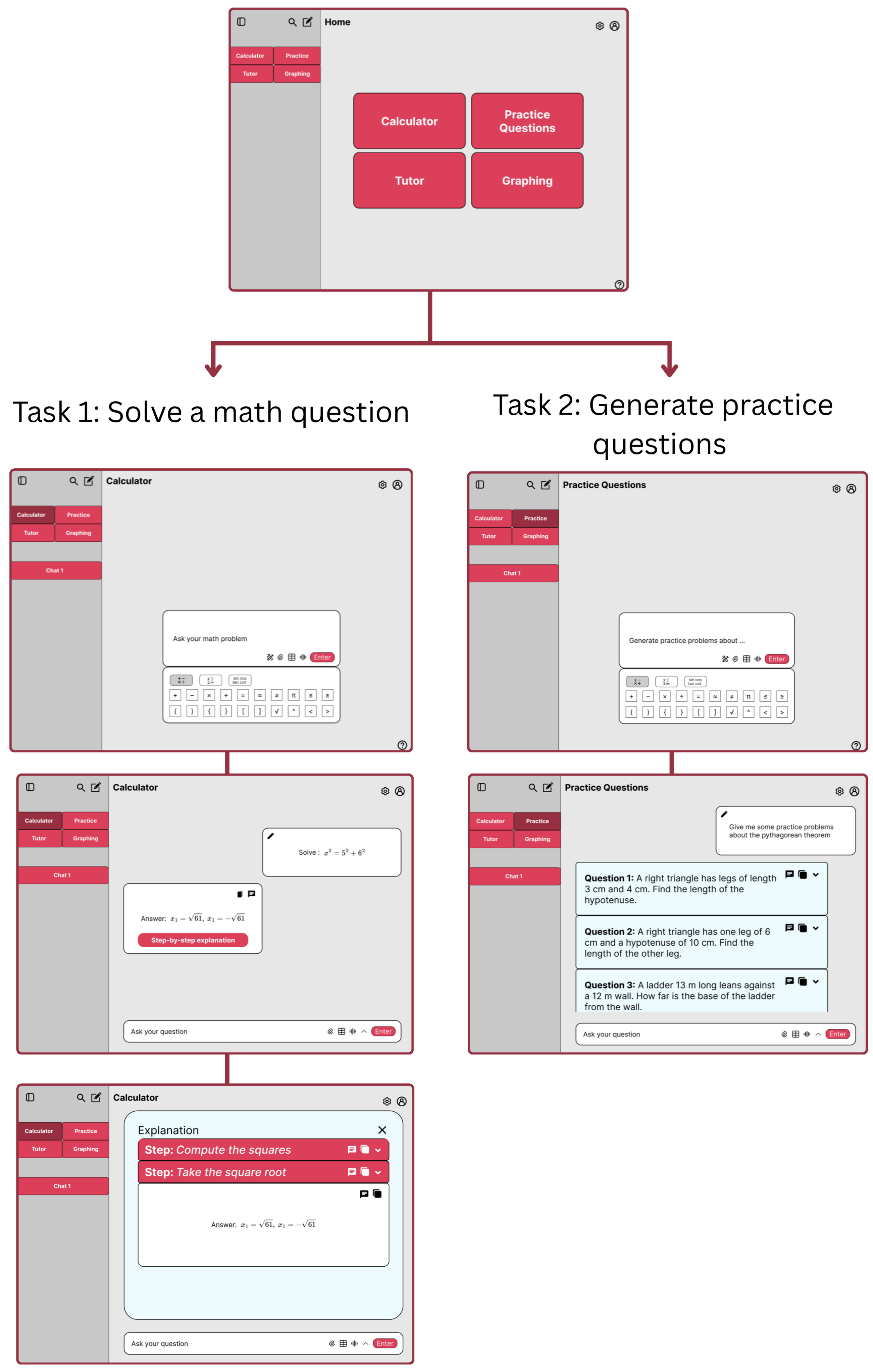
What is the project?

The goal of **MathHelper** is to assist math students in getting math help by offering an efficient method of inputting complex math equations to an AI, offering detailed explanations of the solutions, and generating personalized practice questions to enhance their understanding of the topic.

What are the user requirements

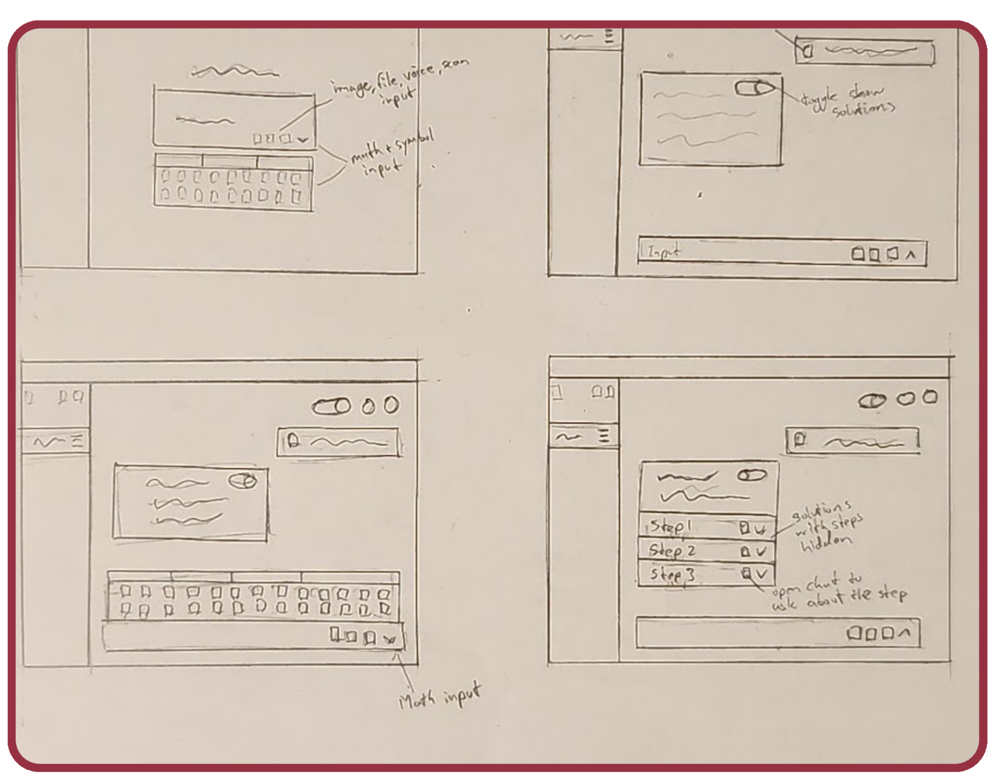
- **Easy input methods:** Allow easy and intuitive ways to input complex math equations.
- **Detailed and in-depth explanations of solutions**: Offer in-depth explanations for the solutions, not just providing a quick answer.
- **Personalized practice problems:** Generate personalized practice questions

Key Tasks:



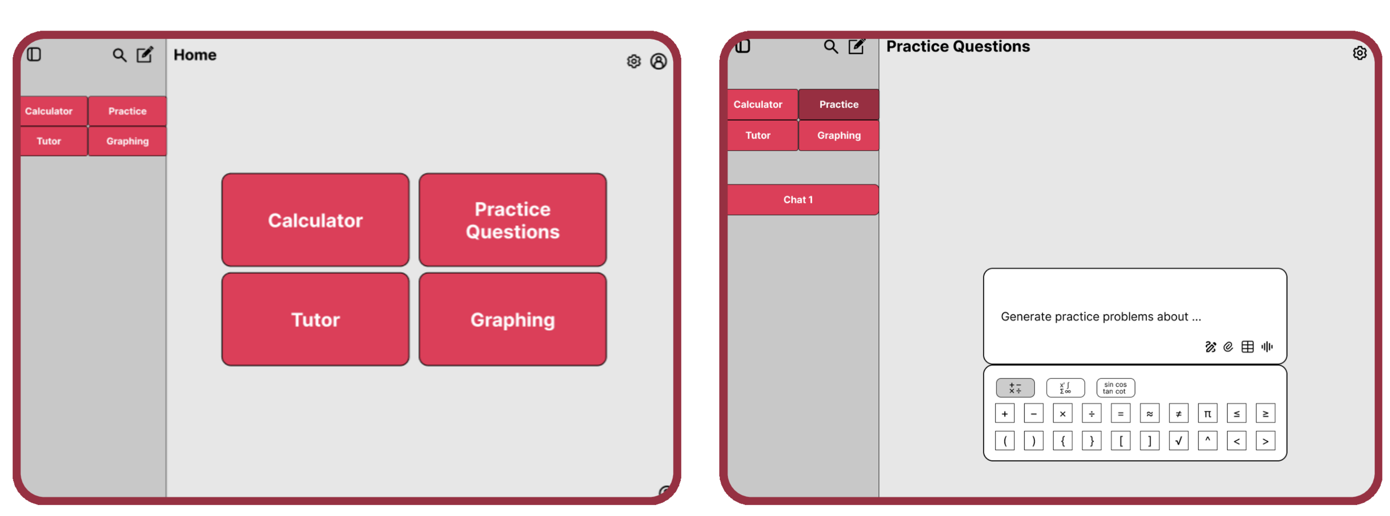
Low fidelity prototype:

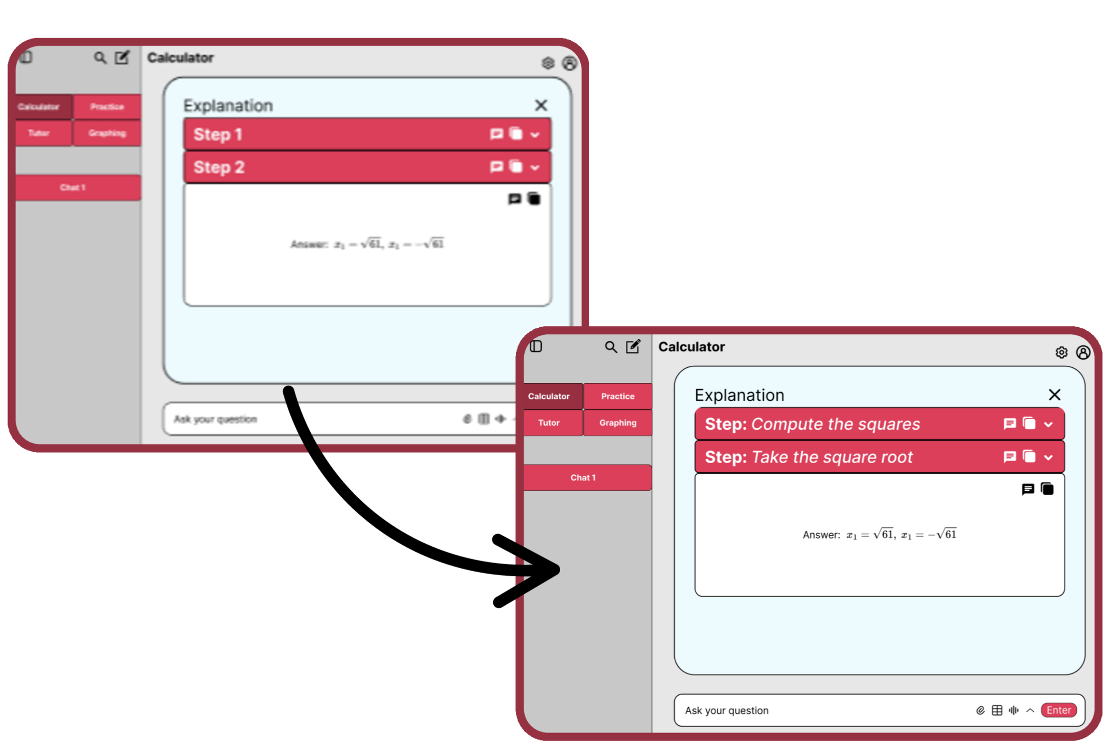
- **Wireframes:**
  - Our Initial wireframes included basic user requirements, such as math input options , displaying solutions and step-by-step explanations
- **Design Rationale:**
  - We prioritized a simple design to map out core functionality and task flow



Medium fidelity prototype:

- **Figma Prototype:**
  - We added the functionality to generate practice question
  - A home page was created to simplify navigation and to make it clear the different features available.
- **Design Rationale:**
  - We improved the overall visual clarity and refined the interface to create a more structured, user-friendly experience.





High fidelity prototype:

- **React Prototype (Work in Progress)**
  - We added features, such as hover descriptions and more descriptive steps to help with confusion.
  - Added the ability to customize the type of questions MathHelper generates.
- **Design Rationale:**
  - We focused on minimizing user confusion and providing more freedom by allowing users to customize the question generated.

Ask your question ... Enter