As an increasing number of people tending to be a member of the big family of iGEM, HUST-iGEM group make their mind to enlarge the population of iGEM, to bring more ideas into develop iGEM's future.

The Super E. coli Architect (SEA) is a kind of design software for engineering bacteria and offers a convenient and efficient design platform, having capability to integrate scattered simple ideas into a complete solution.

**GOAL**

Release designers from technical details, helping them work as the architects, allowing them to take more attention into constructing engineering bacteria for solving practical problems.

**our software**

**Mind Cloud**

This model is Mind Cloud, which provides customers brainstorm support. When a project has not yet formed an idea, it is inefficient to find idea without purpose. What is more, the results of the idea would be tendentious and ineffectual. Our Mind Cloud model is based on summarizing most ideas that former teams concluded. After reorganizing, refining, we conclude these strong functional elements, which can provide outstanding effects to people who are looking for an excellent idea.

**Super E. coli Architect**

This level is a functional designing module. Using E. coli's main metabolic pathway as designing framework, it also provides kinds of functional device which have mature biobricks supporting.

Users can design their engineering bacteria through adding and linking functional device. In the meanwhile, completely designed bacteria are recommended to be uploaded for reference.

**Metabolic Pathway Search**

Metabolic pathway search this model is formed based on Escherichia coli str. K-12 those relative basic metabolic pathway database. This model supports the following functions:

- Entering two of the random colon bacillus's results from metabolic pathway, the software will compute the optimizing pathway for the best response parameter, including enzyme and other information.