

San Francisco State University

CSC 890 Graduate Seminar

Milestone 1

Team 04

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Customer Segment

- Undergraduate / Graduate Students
- Software Developer

Top 3 biggest problems

- Students
 - 1) Undergraduate students are beginners to the programming world. It is difficult for them to understand a code in any specific language.
 - 2) Students find it difficult to learn most of the programming languages and their syntax. It creates confusion for them in learning, as there is a difference in syntax, structure and grammar of every programming language.
 - 3) Students might be presented with a simple question, but writing an efficient, optimized code is a task for them even after knowing syntax or logic upto certain extent.
- Employees
 - 1) Employees might face difficulty understanding the logic of an existing project / code which someone else has worked on. Sometimes there may be a lack of comments or no proper code structure or naming conventions followed.
 - 2) Employees might also face issues while learning new programming languages, for example, if they have expertise in one language and have to learn a different language for their self-development, it might be difficult to adjust to a new language and its syntax. It is also time-consuming.
 - 3) Employees might face difficulty to upgrade their code to the latest versions, if they are not aware about that particular programming language.

Features

1. Users shall be able to translate any programming language code snippet to human / natural language form.
2. Users shall be able to translate human / natural language query to any programming language code snippet
3. Users shall be able to translate code snippet from one programming language to another
4. Users shall be able to choose a programming language from the dropdown provided on the user interface
5. Users shall be able to enter their code snippet / question in the input box and click a button to generate an output
6. Users shall be able to clear the input and output generated by clicking the clear me button.
7. Users shall be able to register themselves to create an account.
8. Registered users shall be able to login to the portal

9. Users shall be able to logout of the portal
10. Users shall be logged in to be able to use the specified features.
11. Users shall be able to request SQL queries
12. Users shall be able to translate SQL queries to human / natural language form