# Recommending Alpha

Group 16

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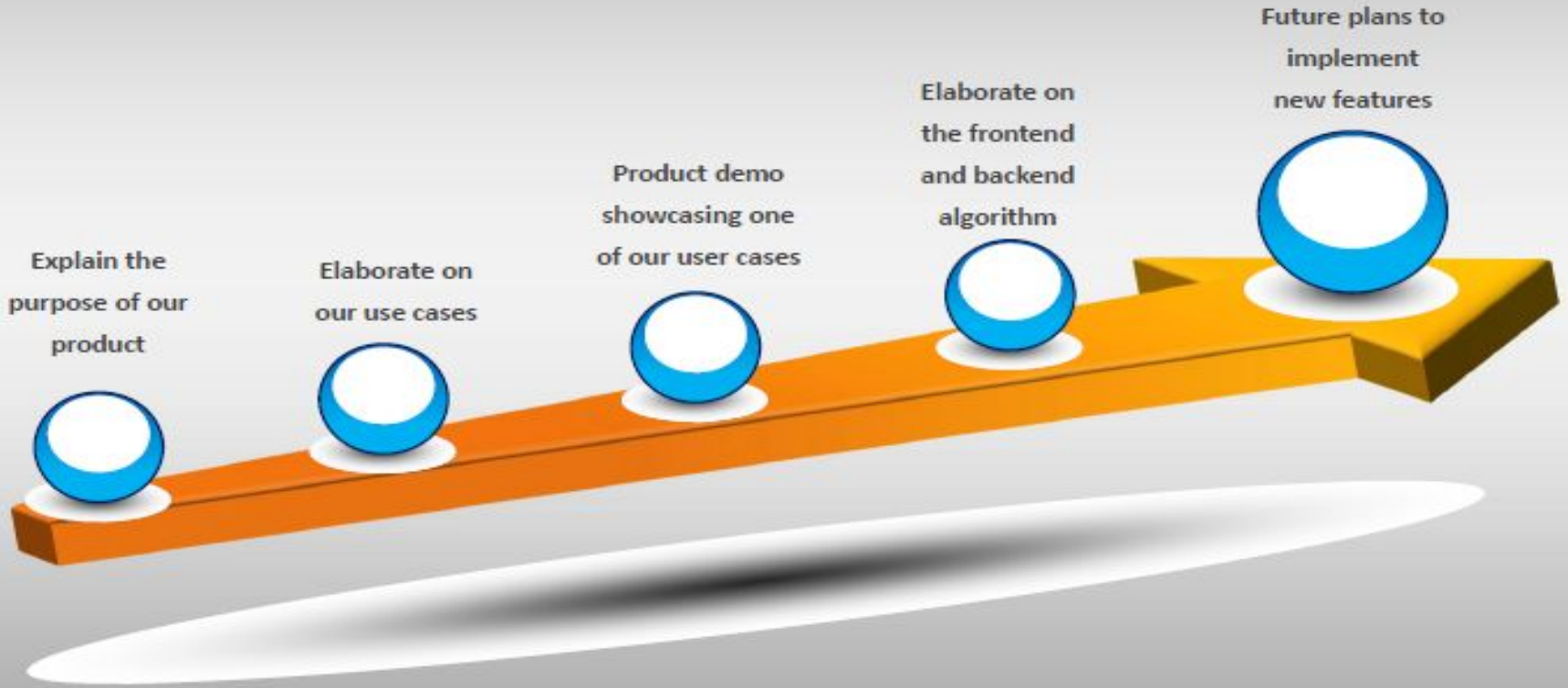
Demo 1
March 26, 2019
Github Link:
https://github.com/vedantadhobley/SoftwareEngineeringProject2019

# Roadmap to our end goal



# Who is the product for? What is it for?

A. Book fanatics
    a. Book fanatics that wish to expand their library and find books similar to their taste
B. You can use this site for course material as well
    a. Instructors can use our product to create a lesson plan. This can be useful for Match, Science, Language, etc.
C. This can be used by parents who want to have their child read specific types of books to enhance learning
    a. Parents can search books that have similar learning properties as other books to introduce to their children
D. The site is for all ages.
    a. Our product will work for all ages. Based on our data and algorithm, we will be able to recommend ages specific books based on the users input

# Use Cases - in progress

## Case 1 (Entering the List of Books)

For this case, the user first begins typing the book into the search bar. The system responds by using predictive text to suggest the book's name. From there, the user selects the book that they are looking for from the dropdown menu that the system creates.

## Case 2 (Evaluate Recommendations)

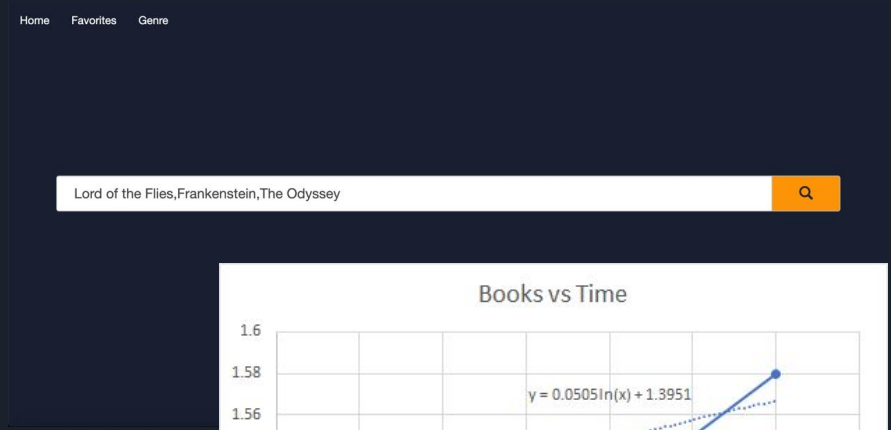
For this case, the system returns a list of books that are recommended based on what the user has input. The user then searches or finds books that they want by scrolling through the list and evaluating which books have the most similar features.

## Case 3 (Find books according to their list of read books)

For this case, the user enters the books name into the search bar as previously done. The system responds by searching the database for predictive text. The user selects the book from the predictive text result. The system creates a table that stores all of the books that the user has input into the search bar. The system begins to run the similar match algorithm and stores them in the same file with the books that were previously entered.The system then runs the Analyzing Algorithm to rank the books in tiers from S to C

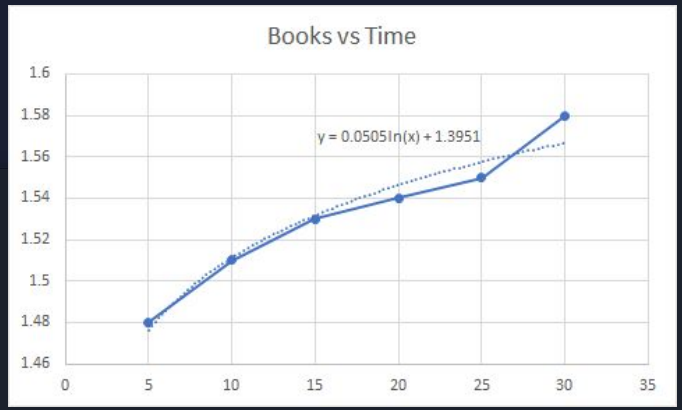
# User Interface, Frontend, Backend

- User Interface
  - Simple
  - Local, Virtual Server




- Frontend
  - Predictive (in progress)

- Backend
  - Fast → O(1) search, O(n) storage
  - Comprehensive → 10,000 book database (currently)



# Projected Milestones