

# Student Companion — Final Presentation

## Chaotic Programmers

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# Motivation and Problem Statement

## Motivation

*Flash cards are used as a self-testing technique and the efficacy is determined by the amount and timings of practice. [1]*

*The pandemic has affected academic delivery and collaborative learning. A tool for revision and sharing flashcards can enhance the learning process and a leaderboard provides a virtual competitive environment and enhances learner's motivation.[2]*

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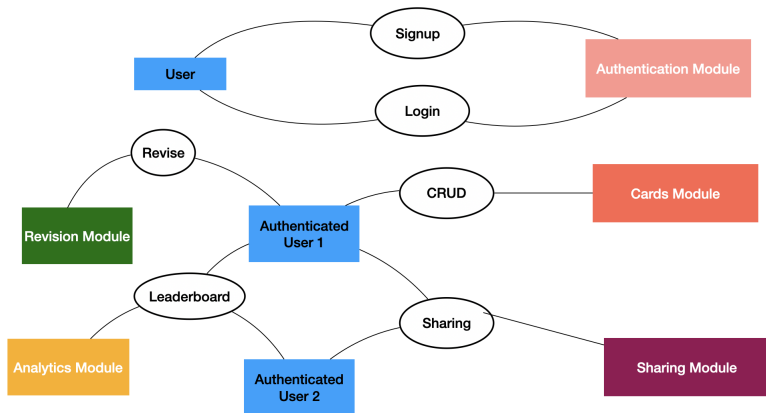
## Problem Statement

*Building a website to create a study tool which uses flashcards and timed revisions for learners and help them cope up with online education by providing a competitive feel with their friends along with sharing their flashcards to give them feel of a virtual group study environment.*

# Deliverables

- 1 Login page for user to login ✓
- 2 Facility to create, edit and delete flashcards ✓
- 3 Spaced Repetition of flashcards ✓
- 4 Adding friends and sharing cards among friends ✓
- 5 A leaderboard among friends ✓
- 6 Decks to organize cards ✓
- 7 Creating a custom decks from existing cards for custom revision ✓
- 8 An internal timer to keep cards in front next time during revision if recalling too longer ✓
- 9 Show current progress of cards for the user and user's friends ✓

# Working



# Work Distribution

- 1 Database Design and Readme.md - Bhavana Gautam
- 2 Login page for user to login - Abisek R K
- 3 Facility to create, edit and delete flashcards - Sakharam
- 4 Spaced Repetition of flashcards - Sakharam
- 5 Adding friends and sharing cards among friends - Abisek R K
- 6 A leaderboard among friends - Abisek R K
- 7 Decks to organize cards - Abisek R K
- 8 Creating a custom decks from existing cards for custom revision - Sakharam
- 9 An internal timer to keep cards in front next time during revision if recalling too longer - Sakharam
- 10 Show current progress of cards for the user and user's friends - Sakharam
- 11 Documentation - Abisek R K and Sakharam

# References



Effect of flashcards: <https://dl.acm.org/doi/10.1145/3178158.3178206>



Effect of leaderboard: <https://pubmed.ncbi.nlm.nih.gov/33877049>



Django: <https://www.djangoproject.com/>



Django API: <https://www.django-rest-framework.org/>



AngularJS: <https://angularjs.org/>



Resource Consumption: <https://github.com/mgonto/restangular>