Alex Reyes, Jacob Acosta , Juan Gonzalez

Part 1: Research and Information Gathering

User Profiles

Name: Chad Chadson

Background: Highschool senior/Star quarterback

Struggles: While Chad excels on the field, he's struggling academically. Balancing football practices, games, and schoolwork has become overwhelming. His grades have started to slip, and he fears that failing to keep up will jeopardize his chances of playing at the collegiate level. He is looking for an app that can help him study and secure that college scholarship.

Needs:

- Customizable flashcards for all his class subjects
- Offline access for those away games
- Focus on topics he needs help with the most

User Profiles Cont.

Name: Lisa Ann

Background: Biology student at CSUB

Struggles: Lisa is a college student pursuing a degree in Biology. She loves learning about the natural world and is passionate about environmental conservation. However, Lisa has trouble keeping a consistent studying routine, and is looking for something that will help keep key concepts fresh in her mind.
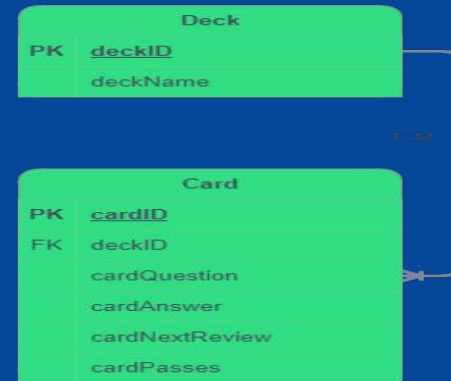
Needs:

- She needs to constantly go over material, focusing on the on the hardest ones the most.
- She needs to be able to study many different topics and their key concepts.
- Material needs to be repetitive to keep it fresh in her mind.

Scenarios & Features

- A flashcard app that will allow users to create flashcards for multiple subjects.
- Multiple decks for different subjects.
- Each deck can have many cards.
- User will be able to show and edit answers.
- Their input will decide when the flashcard pops up again.

Flowchart

```
User Interface
(View)
   |
   v
Click on deck  <-----------------+
   |                             |
   v                             |
Controller                       |
   |                             |
   v                             |
Access Data                      |
   |                             |
   v                             |
if_Success  --No-->  Show Error  |
   |                             |
  Yes                            |
   v                             |
Update View                      |
   |                             |
   v                             |
Start deck/return  --->  Return -+
   |
  (Start)
   v
Start
   |
   v
Access cards
from database
   |
   v
if_Success  --No-->  Show Error
   |
  Yes
   v
Start with random
card
```

Deck

	Deck	
PK	deckID	
	deckName	

Card

	Card	
PK	cardID	
FK	deckID	
	cardQuestion	
	cardAnswer	
	cardNextReview	
	cardPasses	

1...M
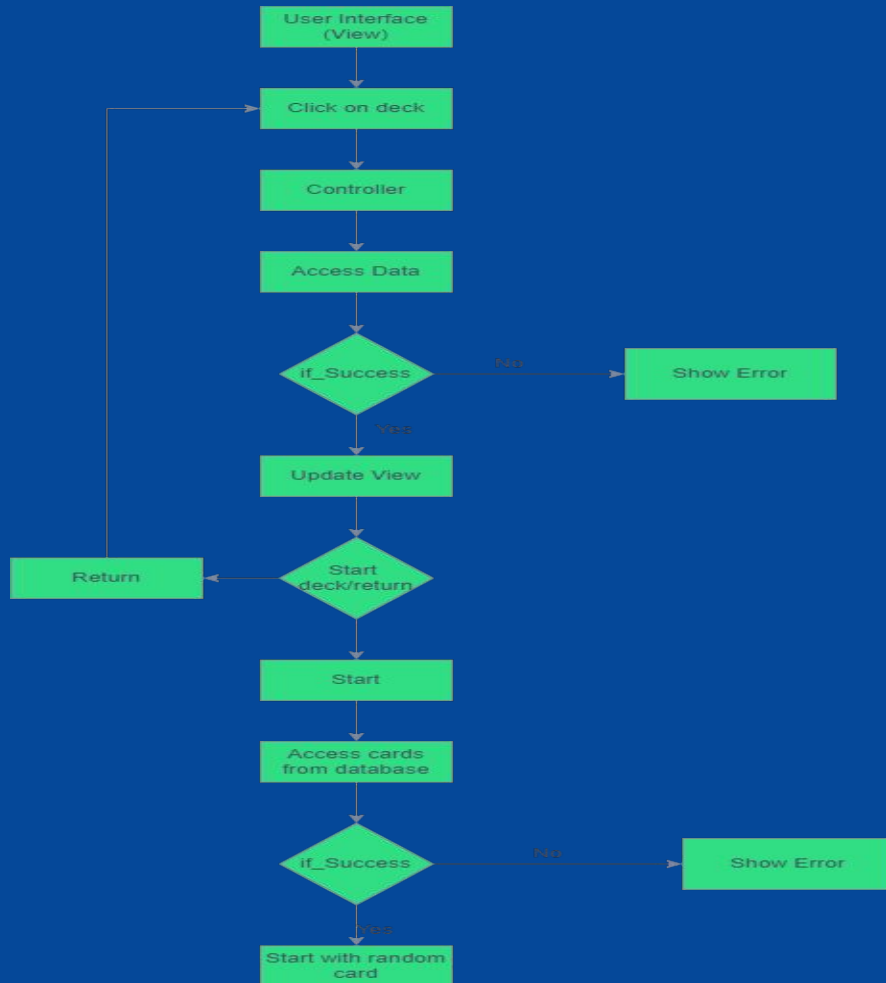
Part 2: Environment Setup

Final Decisions

- **Discord–Communication**
- **Android Studio–IDE**
- **Git–Version Control**
- **Room–Database**

Dev Environment

- Android Studio Koala
- Gradle 8.7
- Git Remote Repository

Environment Issues

- Android Studio Versions
- Gradle dependencies/versions

Part 3: Development