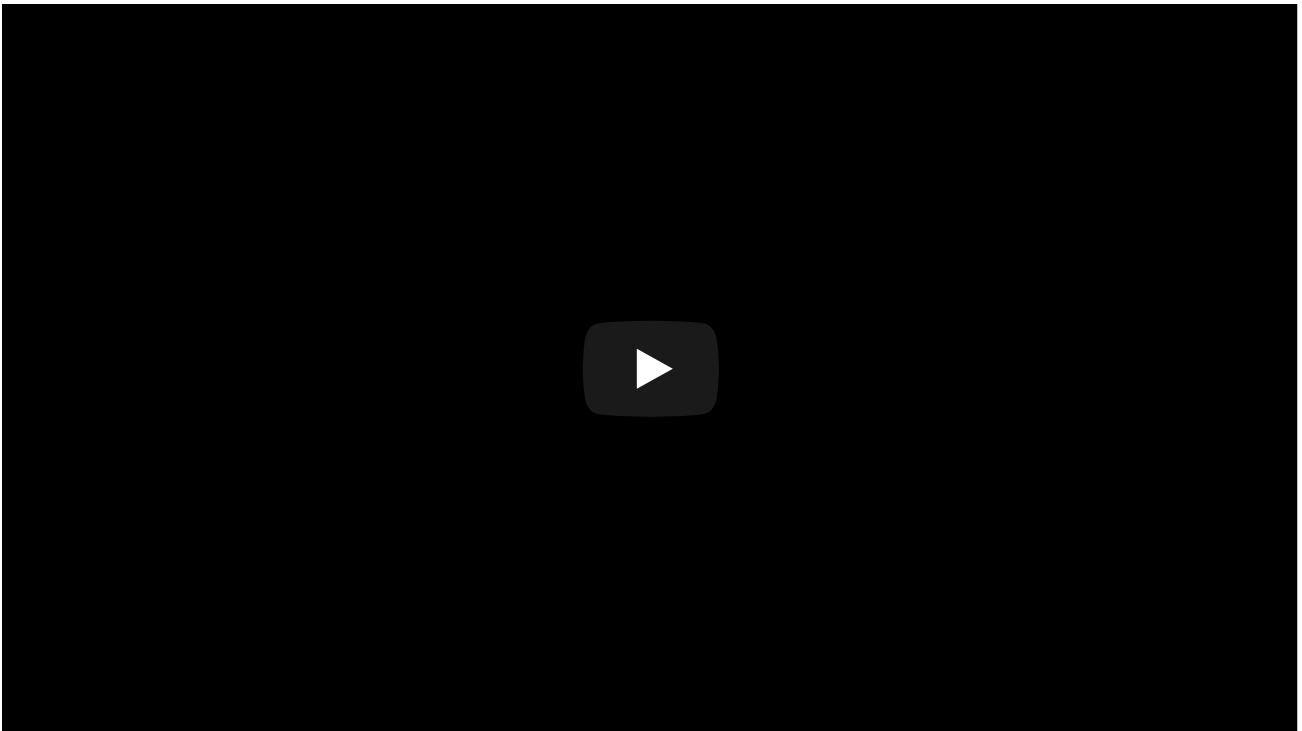




Project Details



Project Overview

For the **UdaciCards** project, you will build a mobile application (Android or iOS - or both) that allows users to study collections of flashcards. The app will allow users to create different categories of flashcards called "decks", add flashcards to those decks, then take quizzes on those decks.

Why this project?

This project encompasses the fundamental aspects of building a native application including handling infinite lists, routing, and user input. By building this project, you will gain an understanding of how to use React Native to build an iOS and Android application.

Specification

You'll create your project using **create-react-native-app**. There will be no starter code that you need to download.

The specification provided below is the minimum required for this project. You may extend your project as you like, however.



Project Details

- Allow users to create a deck which can hold an unlimited number of cards.
- Allow users to add a card to a specific deck.
- The front of the card should display the question.
- The back of the card should display the answer.
- Users should be able to quiz themselves on a specific deck and receive a score once they're done.
- Users should receive a notification to remind themselves to study if they haven't already for that day.

Views

Your application should have, at a minimum, five views.

- Deck List View (Default View)
 - displays the title of each Deck
 - displays the number of cards in each deck

DECKS

udaciacards
3 cards

new deck
0 cards



Project Details

New deck 2

0 cards

Deck List View

- Individual Deck View
 - displays the title of the Deck
 - displays the number of cards in the deck
 - displays an option to start a quiz on this specific deck
 - An option to add a new question to the deck

**udaciacards**



udacicards

3 cards

Add Card

Start Quiz

Individual Deck View

- Quiz View
 - displays a card question
 - an option to view the answer (flips the card)
 - a "Correct" button
 - an "Incorrect" button



Quiz

2 / 2

Does React
Native work with
Android?

Answer

Correct



Project Details

Quiz View



Quiz

2 / 2

Yes!

Question

Correct



Incorrect

- New Deck View
 - An option to enter in the title for the new deck
 - An option to submit the new deck title

NEW DECK

What is the title
of your new
deck?

Deck Title



Project Details

Submit

- New Question View
 - An option to enter in the question
 - An option to enter in the answer
 - An option to submit the new question

**Add Card**

What is a component?

Components let you split the UI into independent, reusable pieces



Project Details



Data

We'll use `AsyncStorage` to store our decks and flashcards. Redux is optional for this project.

Using `AsyncStorage` you'll manage an object whose shape is similar to this:



Project Details

```

title: 'React',
questions: [
  {
    question: 'What is React?',
    answer: 'A library for managing user interfaces'
  },
  {
    question: 'Where do you make Ajax requests in React?',
    answer: 'The componentDidMount lifecycle event'
  }
]
},
JavaScript: {
  title: 'JavaScript',
  questions: [
    {
      question: 'What is a closure?',
      answer: 'The combination of a function and the lexical environment within which that function was declared.'
    }
  ]
}
}

```

Notice each deck creates a new key on the object. Each deck has a `title` and a `questions` key. `title` is the title for the specific deck and `questions` is an array of questions and answers for that deck.

Tip

To manage your `AsyncStorage` database, you'll want to create four different helper methods.

getDecks : return all of the decks along with their titles, questions, and answers.

`getDeck`: take in a single `id` argument and return the deck associated with that `id`.

`saveDeckTitle`: take in a single `title` argument and add it to the decks.

`addCardToDeck`: take in two arguments, `title` and `card`, and will add the card to the list of questions for the deck with the associated title.

NEXT

