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Udacity Course Picker

Description

Pick a course to study in a second, with an extended Udacity search criteria.

Intended User

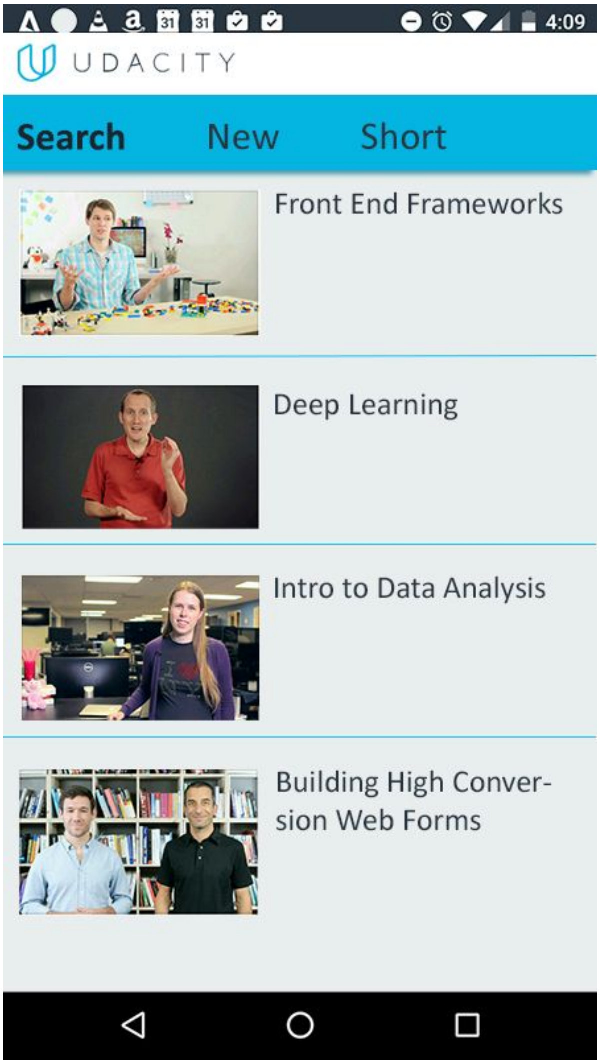
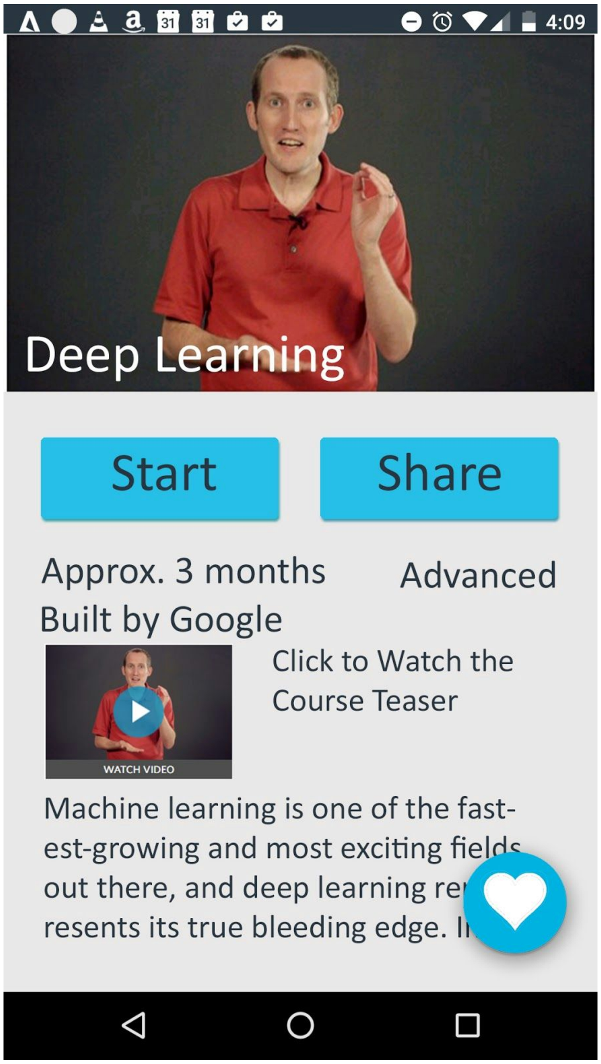
This app is intended for students who are current or new users of the Udacity platform.

Features

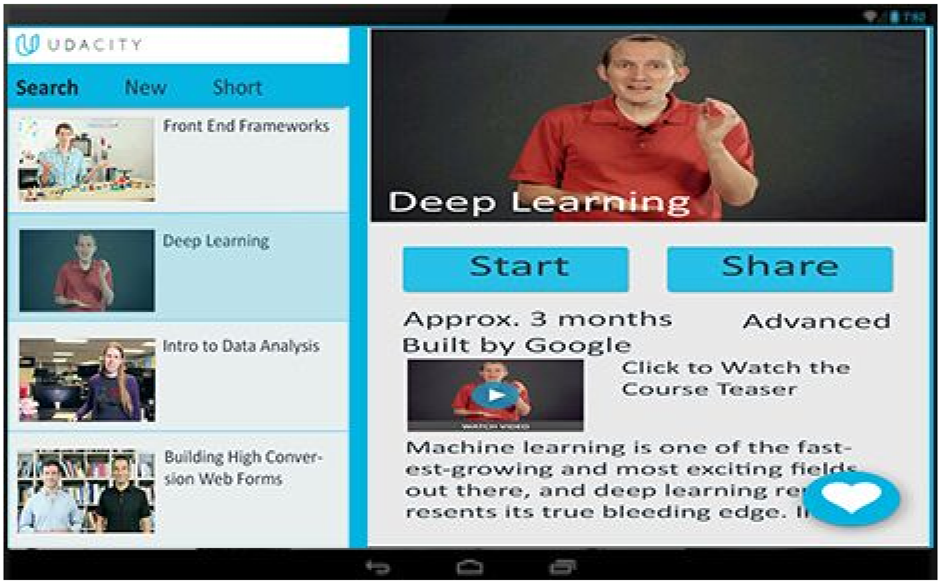
Lists all Udacity courses
Sorts courses according to criteria
Provides pre-sorted categories, such as “New Courses” and “Shortest Courses”
Takes user to Udacity app/selected course

User Interface Mocks

Phone

Screen 1	Screen 2
 4:09 UDACITY Search New Short Front End Frameworks Deep Learning Intro to Data Analysis Building High Conversion Web Forms	 4:09 Deep Learning Start Share Approx. 3 months Advanced Built by Google Click to Watch the Course Teaser WATCH VIDEO Machine learning is one of the fastest-growing and most exciting fields out there, and deep learning re resents its true bleeding edge. I

Tablet

Screen 1
 UDACITY Search New Short Front End Frameworks Deep Learning Intro to Data Analysis Building High Conversion Web Forms Deep Learning Start Share Approx. 3 months Advanced Built by Google Click to Watch the Course Teaser Machine learning is one of the fastest-growing and most exciting fields out there, and deep learning represents its true bleeding edge. I

Key Considerations

How will your app handle data persistence?

Content Provider will host all the available courses on the Udacity Platform. Content Provider will be able to provide information based on extended search criteria.

Describe any corner cases in the UX.

1. When user opens the app, it loads the courses based on the default/saved user criteria
2. When user clicks on the course, it will take them to the detail activity where they will see:
    a. Details about the course
    b. ActionButton where they can add that course to favorites
3. When user clicks on settings, it takes them to all search criteria
4. On the detail activity, there will be 2 buttons
    a. Take Course → takes user to Udacity App
    b. Share → where user can share with the world the amazing course they found

Describe any libraries you'll be using and share your reasoning for including them.

1. Picasso to handle the loading and caching of images
2. Android-ObservableScrollView

Task 1: Project Setup

- Create Project in Android Studio and export it to GitHub
- Add all required libraries for the project implementation

Task 2: Implement UI for Each Activity and Fragment

- Build UI for MainActivity
- Build UI for DetailActivity (that displays the details of the course)
- Build UI for tablets that will utilize the above 2 screens as fragments
- Build Settings Activity that will hold user's search criteria

Task 3: Build and Test Content Provider

- Identify Database Relations
- Set up JSON call to retrieve the data

- Set up the Content Provide
- Create JUnit tests to test the correct data retrieval

Task 4: Add Loaders

- Plug in the data from Content Provider to the UI using Loaders

Task 5: Check for Course Updates using Service

- Once a day check for any new courses or changes in existing courses and update database accordingly
- Issue notifications when new courses arrive based on search criteria

Task 6: Test the App on multiple devices

- Test the app functionality on the phone and tablet
- Publish app to Google Play
- Celebrate!!