Description:

We built a minimalistic To-Do List. The home page displays the To-Do List. In the corner is an add button that takes the user to a screen where they can type in a task and add it to their list. The To-Do list information is backed with Firebase, so the task gets saved into the database. The To-Do list appearing on the main page is just a display of the information pulled from the database.

Resources:

We relied on YouTube videos because the visual walkthroughs made it much easier to follow along and learn about how to use Android Studio.

1. Android Studio for Beginners Part 1: <https://www.youtube.com/watch?v=dFlPARW5IX8&t=1694s>
   1. I learned how to create and add click listeners to buttons from this. I implemented two buttons in the app based on this knowledge
2. Android Studio for Beginners Part 2: <https://www.youtube.com/watch?v=6ow3L39Wxmg&t=1695s>
   1. I learned about Intents, and how to use them to switch between “Activites” (pages in the app). I created two intents triggered by a button click. One goes from the main page to the secondary page. The other goes from the secondary page to the main page.
3. How to Integrate GitHub in Android Studio: <https://www.youtube.com/watch?v=3p_fgJEbsp8&t=504s>
   1. I used this tutorial to learn how to set up GitHub, connect it to Android studio for the first time, and then upload my app’s files to a repository.
   2. After doing this, I was able to help my partner pull files out of the repository to work on, push his own changes back in, and push my own updates to GitHub.
4. Basic ListView Demo: <https://www.youtube.com/watch?v=eAPFgC9URqc&t=415s>
   1. Our To-Do list’s list element is a ListView object. From this tutorial I learned how to take information from a basic array, route it through an ArrayAdapter, to be able to display the items in the ListView appearing on the app’s home screen.
   2. We then swaped out the basic array for lines of code to fetch information from the database and organize it as an array to route through the ArrayAdapter instead.
5. How to Build an Application Using Database: <https://www.youtube.com/watch?v=xVZ0vY2P1S4>
   1. We used this to learn how to connect the Firebase to our project and take in information from a text field.

GitHub Repository: <https://github.com/Lunaarz/ToDoList>

Firebase Database: <https://simple-to-do-list-a784c.firebaseio.com/>

Download and Run Instructions:

If you have Android Studio, Firebase, and a wireless connection already present on your computer, you should be able to just download the code from GitHub as a zip, unpack the .zip into a file inside the AndroidStudioProjects file, open it in android studio, and then run it in the simulator.