



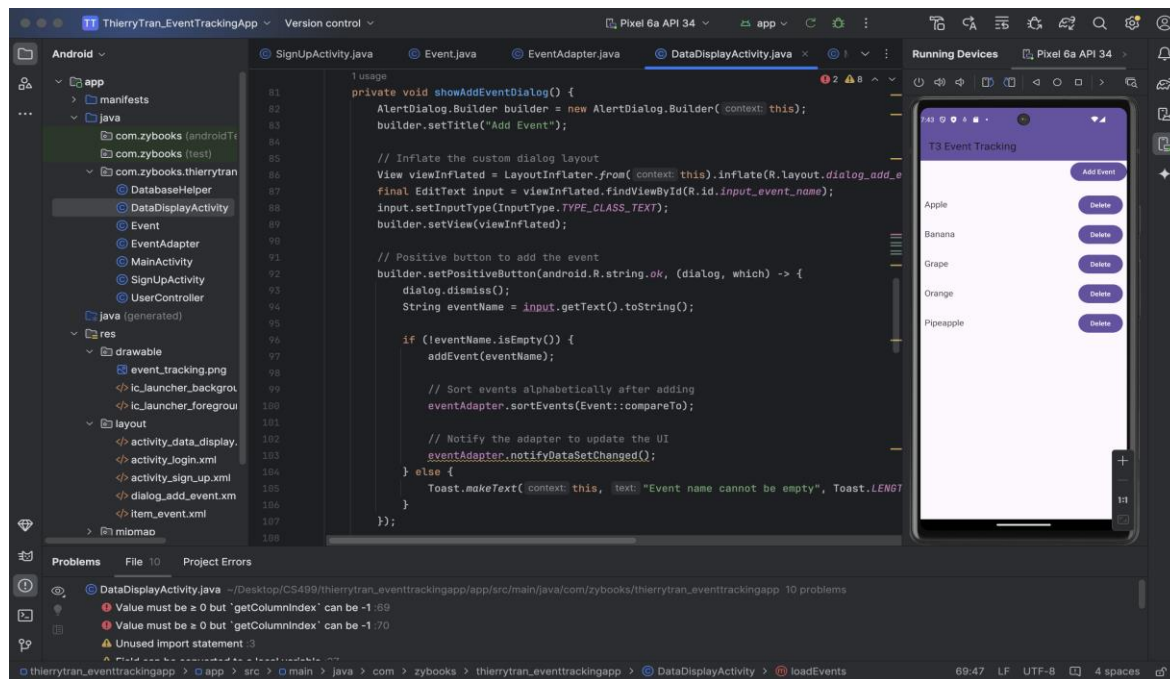
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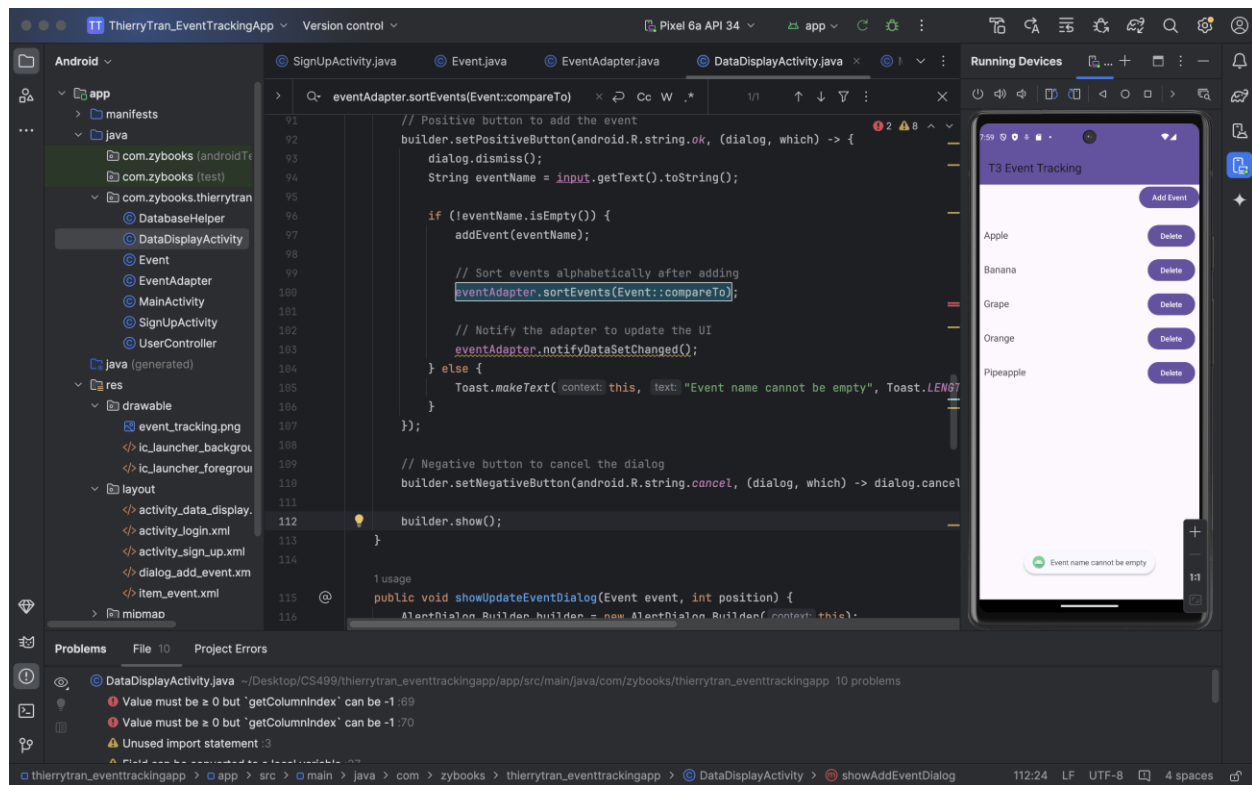
CS 499 Milestone Three

Today, I focused on making my Event Tracking App more dynamic and user-friendly. This work is part of Enhancement Two, where I'm improving the app by applying what I've learned about algorithms and data structures during my studies.

One of the biggest improvements I made was adding real-time sorting to the events list in the `DataDisplayActivity` class. Before, events weren't automatically organized, and if I wanted to see them sorted alphabetically, I had to log out and log back in. That didn't feel like a smooth user experience, so I updated the app to sort events immediately after they're added or updated. I did this by using `eventAdapter.sortEvents(Event::compareTo)` to ensure everything stays in alphabetical order. I also called `eventAdapter.notifyDataSetChanged()` to make sure the UI updates right away. Now, every new event appears in the correct order without the user having to do anything extra, which feels so much better.



I also addressed an issue with input validation. Before, the app let users add events without entering a name, which didn't make much sense. I added a check to make sure event names aren't empty. If someone tries to add an event without a name, they now see a Toast message saying, "Event name cannot be empty." It's a small detail, but it makes the app more polished and ensures users enter meaningful data.



These updates might seem simple, but they've made a huge difference. The app feels more professional and responsive, and I'm really happy with how it turned out. Adding real-time sorting also sets the app up to handle larger datasets in the future, which is important for scalability.

Working on these enhancements has been a great experience. It's taught me how important the little things like sorting or validation are in making an app feel well-designed and user-friendly. I'm proud of what I've done here, and I'm excited to apply these lessons to future projects!

Reference:



- Android Developers. *Input validation*.
<https://developer.android.com/guide/topics/ui/forms>
- GeeksforGeeks. *Sorting in Java*
<https://www.geeksforgeeks.org/sorting-in-java/>