Android – Navigation Drawer

- Navigation Drawer is one of the ways users can navigate through an Android application

- The Drawer can be opened by either swiping from the left to the right, starting from the left edge of the screen or by tapping the hamburger(3-bar icon) icon in the upper left corner of the screen.
  - This icon only shows up if it is explicitly added by the developer.
  - Hamburger icon can be added by configuring an `ActionBarDrawerToggle` and adding it to your `DrawerLayout` via `setDrawerListener()`
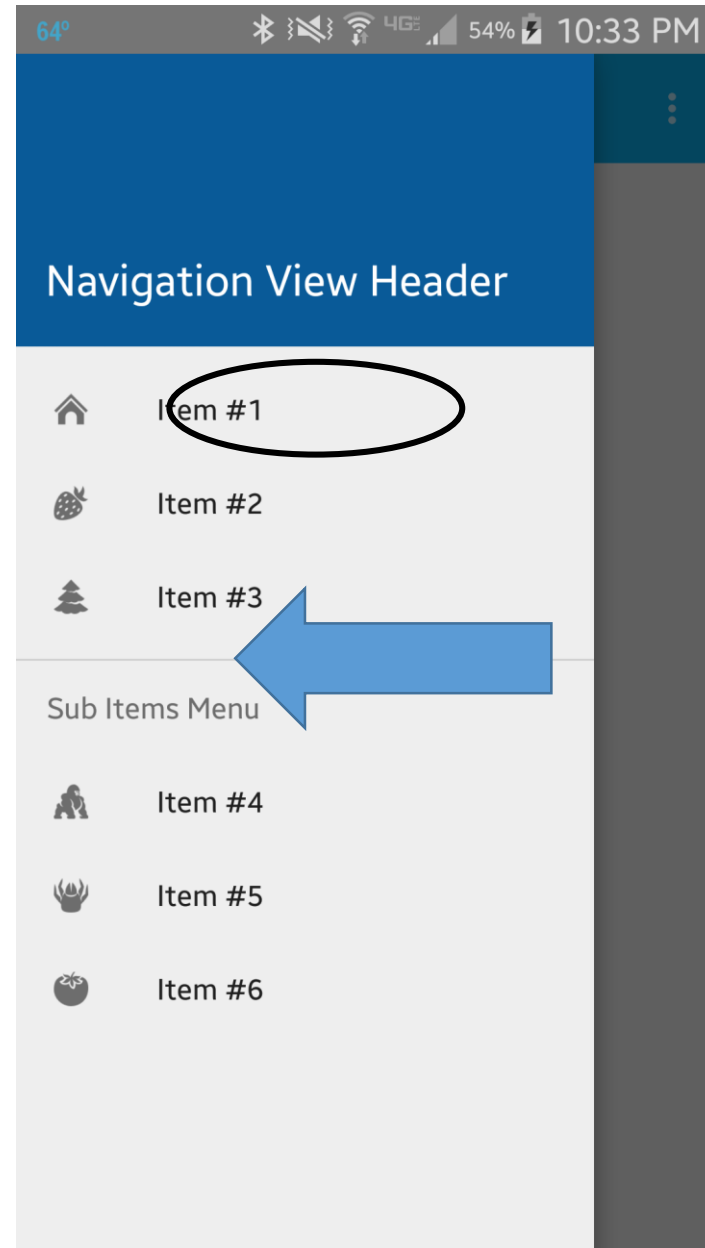
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- `activity_main.xml` contains the layout for the App.
- Its root view is `<DrawerLayout>` from the support library.
  - A child view of `<DrawerLayout>` is `<NavigationView>`
    - `<NavigationView>`'s width works best when set to "`wrap_conetent`"
  - In Android Studio you will notice that the drawer itself is off the screen to the left.
  - If you want the Drawer to slide in from the right set: `android:layout_gravity` to "end". Sliding from the left use "start".
- Items in the Drawer can be set either pragmatically via a `ListView` or declaratively via an xml resource file in the `res/menu` directory
- Menu Item click events are handled by configuring a `NavigationView.OnNavigationItemSelectedListener`
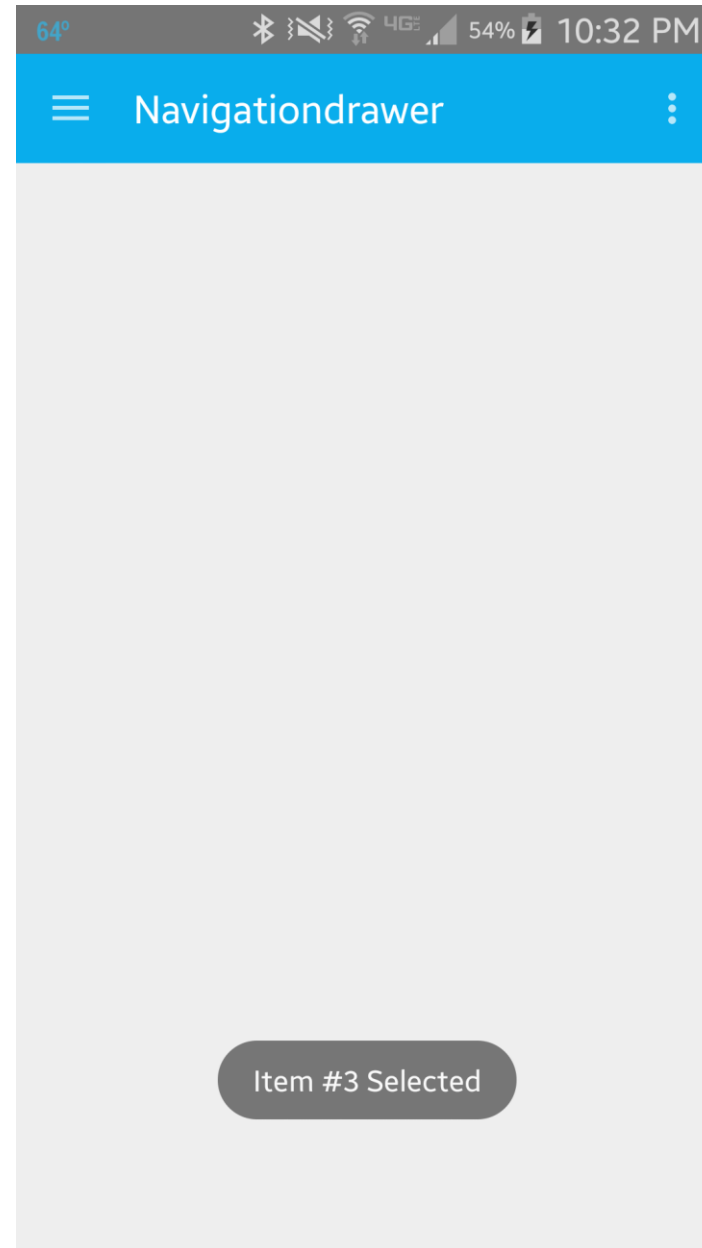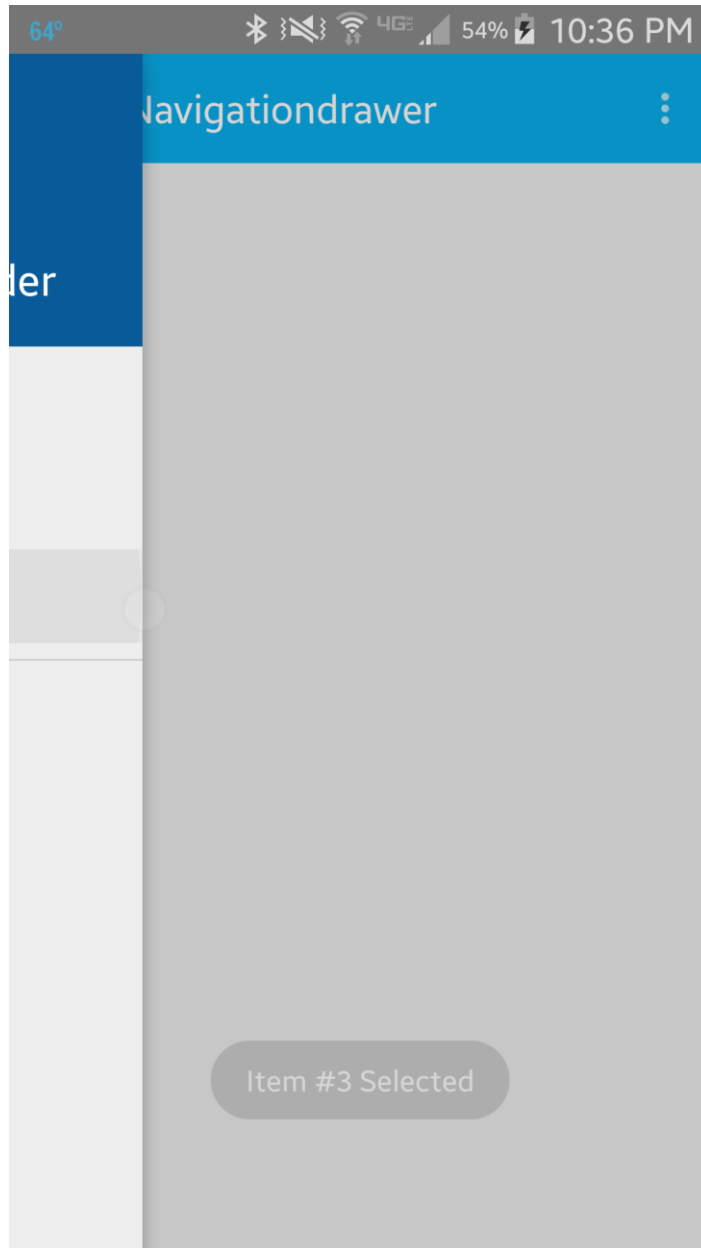
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- Menu items declared in `res/menu folder` can be added to NavigationView via `app:menu="@menu/resource_name.xml"`

- A header layout can also be defined. This will live right above the menu items.

  - `navdraw_header.xml` defines the layout for the navigation drawer.
  - Added with `app:headerLayout="@layout/navdraw_header"` in NavigationView.

Tap the 3-bar icon or swipe from left to right, starting from the left side of the screen to open navigation Drawer

Swipe from right to left to close the navigation drawer. Or click on a Menu item

Navigation drawer closing after swipe or when an item is selected. In this case, an item is selected.

A Toast is shown telling the user which item he or she has selected.

References

- [Android Design Guide](#)

- [NavigationView](#)

- [DrawerLayout](#)

- [ActionBarDrawerToggle](#)

- [AppCompatActivity](#)

- [Toolbar](#)

- [Toast](#)

- [Toast Class](#)

- [Menus](#)

Exercise

- Currently the Navigation Drawer when opened covers the Toolbar. Modify the acitivity_main.xml so that when the Navigation Drawer is opened, it does not cover the Toolbar.