Mobile Dev A3.3C

Daniel Coady (102084174) 23/09/2019

Part 1

In this application there are two different fragments:

- The single date view for each location in the view pager
- The date views in the generate table activity for the recycler view

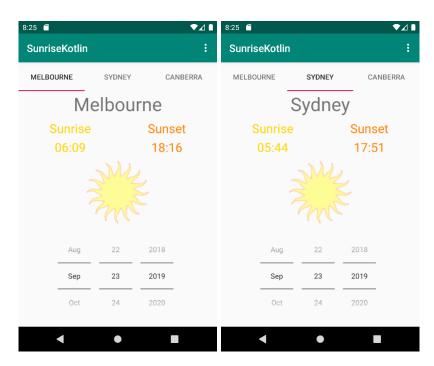


Figure 1: The screen that will appear as you launch the application and viewing another location

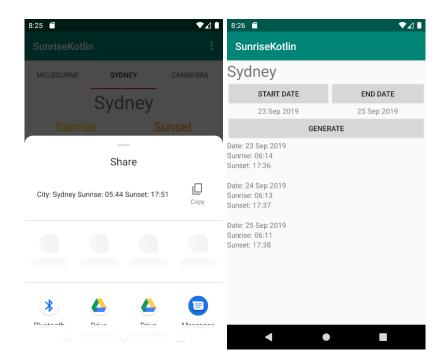


Figure 2: Share and generate table functionality

```
class MyViewPagerAdapter(manager: FragmentManager) : FragmentPagerAdapter(manager) {
   private val registeredFragments = SparseArray<Fragment>()
   override fun getItem(p0: Int) = fragmentList[p0]
   override fun getCount() = fragmentList.size
   fun addFragment(fragment: Fragment, title: String) {
       fragmentList.add(fragment)
   override fun getPageTitle(position: Int) = titleList[position]
       registeredFragments.put(position, fragment)
       return fragment
   override fun destroyItem(container: ViewGroup, position: Int, `object`: Any) {
   fun getRegisteredFragment(pos: Int) = registeredFragments[pos]
  private fun createFragments(adapter: MyViewPagerAdapter) {
     val melbourne = initFragment( city: "Melbourne", lat: -37.50, lon: 145.01)
val sydney = initFragment( city: "Sydney", lat: -33.86, lon: 151.20)
     adapter.addFragment(canberra, [title: "Canberra")
     viewPager.addOnPageChangeListener(object : ViewPager.OnPageChangeListener {
          override fun onPageScrollStateChanged(p0: Int) { }
          override fun onPageScrolled(p0: Int, p1: Float, p2: Int) {
              currentFragment = adapter.getRegisteredFragment(p0) as InfoView
          override fun onPageSelected(p0: Int) { }
```

Figure 3: Code related to the fragments in the main activity

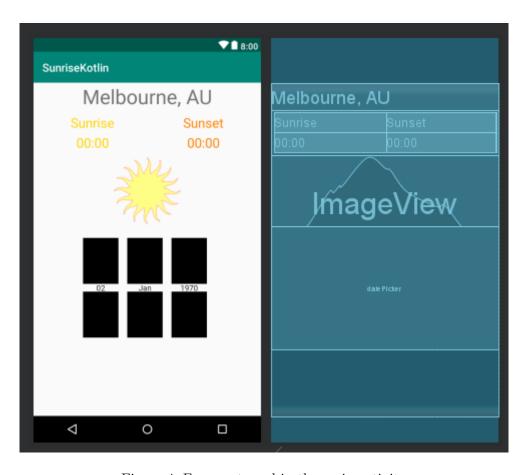


Figure 4: Fragment used in the main activity