

# Mobile Applications

## CSCI 448

### Lecture 25



Taking a Picture  
Via a Camera Intent

Download Camera starter code from website

# Need a FileProvider



```
<manifest ...>
  <application ...>
    <activity .../>
    <provider
      android:name="androidx.core.content.FileProvider"
      android:authorities="edu.mines.csci448.examples.camera.fileprovider"
      android:exported="false"
      android:grantUriPermissions="true">
      <meta-data
        android:name="android.support.FILE_PROVIDER_PATHS"
        android:resource="@xml/files"/>
      </provider>
    </manifest>
    -----
    <!--files.xml-->
    <paths>
      <files-path name="photos" path="."/>
    </paths>
```

# Create Activity Launcher



```
val takePhotoLauncher = registerForActivityResult(  
    ActivityResultContracts.TakePicture()  
) { didTakePhoto ->  
    if(didTakePhoto) {  
        val photograph = Photograph(photoName)  
        photographViewModel.addPhotograph(photograph)  
    }  
}  
-----  
takePicture = {  
    photoName = "IMG_${Date()}.JPG"  
    val photoFile = File(this@MainActivity, photoName)  
    val photoUri = FileProvider.getUriForFile(this@MainActivity,  
        "edu.mines.csci448.examples.camera.fileprovider",  
        photoFile)  
    takePhotoLauncher.launch(photoUri)  
}
```

# Display Image Asynchnously



```
AsyncImage(  
    model = photoUri,  
    contentDescription = photoName  
)
```

# To Do For Next Time



- Lab08 due Fri Mar 17
- Alpha Feedback due Fri Mar 17
- !!! Spring Break !!!
- Lab09 due Tue Mar 28