This summarize how to handle a recorded video in AVFoundation.¹

In captureOutput:didFinishRecordingToOutputFileAtURL:fromConnections:error:, we have a video in the argument of didFinishRecordingToOutputFileAtURL:. This is in a temporary path, so the video should be saved in "Photos", which is assets in asset group called "Camera Roll".²

A typical example³ is to call writeVideoAtPathToSavedPhotosAlbum:completionBlock: of ALAssetsLibrary class, and in completionBlock:, to delete a video in a temporary folder.

We like to extend the capability for handling a video:

- 1. Upload the video
- 2. Keep track of maintaining association between a video in "Photos" and the uploaded video

NetPut class is designed for Extension 1. The sqlite3 database is used for Extension 2. (See DBManager class.) A sample database called "video.db" is in a bundle called "db.bundle". Add the bundle into Xcode and use it after copying into a "writable" folder.⁴ Here is a typical example for the use of sqlite3.

¹ See "Starting a Recording": https://developer.apple.com/library/ios/documentation/AudioVideo/Conceptual/AVFoundationPG/Articles/04_MediaCapture.html#//apple_ref/doc/uid/TP40010188-CH5-SW17

² To enumerate all assets in all asset groups, use [OwnUtil lsAssetsLibrary].

³ A good sample is here: https://developer.apple.com/library/ios/samplecode/AVCam/Introduction/Intro.html

⁴ Document/ or Library/ folder is a good candidate. See https://developer.apple.com/library/ios/documentation/FileManagement/Conceptual/FileSystemProgrammingGuide/FileSystemOverview/FileSystemOverview.html

Of course, videoPathInServer, filenameInCameraRoll, and 99(UserId) should be determined before a call to insertVideoPath:withNameInCameraRoll:withUserId. All are done in the typical example below, which extends

captureOutput:didFinishRecordingToOutputFileAtURL:fromConnections:error:.

```
[[[ALAssetsLibrary alloc] init]
assetForURL:assetURL
resultBlock: ^(ALAsset *asset) {
    //ALog(@"ALAsset: |%@|", asset);
   ALAssetRepresentation *repr = [asset defaultRepresentation];
    //ALog(@"ALAssetRepresentation: |%@|", repr);
   NSString *filenameInCameraRoll = repr == nil ? nil : repr.filename;
   ALog(@"INFO: filename in Camera Roll: |%@|", filenameInCameraRoll);
    if (!filenameInCameraRoll) {
       ALog(@"ERR: filenameInCameraRoll is nil");
        return;
    }
    dispatch async(dispatch get main queue(), ^{
       NSURL *url = [NSURL URLWithString:@"http://ownphones.com/unity/net put.php"];
       NetPut *netPut = [[NetPut alloc] init];
        BOOL b = [netPut]
           send:outputFileURL
            to:url
            headers:nil
            onProgressUpdate:^(int progress) {
                ALog(@"progress = %d %%", progress);
            onEnd:^(NSInteger statusCode, NSString *remoteFilePath) {
                // delete a video in outputFileURL
                NSError *err = nil;
```

⁵ A method getDburl gives a URL for database in a writable folder.

```
removeItemAtURL:outputFileURL
                    error:&err
                ];
                if (err)
                    ALog(@"ERR: |%@|", err);
                if (statusCode != 200) {
                    ALog(@"ERR: Status Code = %@", OPInteger(statusCode));
                    return;
                NSString *videoPathInServer = remoteFilePath;
                ALog(@"Video Path in Server: |%@|", videoPathInServer);
                BOOL b = [self.dbManager
                    insertVideoPath:videoPathInServer
                    withNameInCameraRoll:filenameInCameraRoll
                    withUserId:99
                ALog(@"INFO: Inserted? %s", b ? "Okay" : "Oops");
                if (b) {
                    // backup db
                    NSURL *dbURL = [self.dbManager getDbURL];
                    [[[NetPut alloc] init]
                        send:dbURL
                        to:url
                        headers:nil
                        onProgressUpdate:nil
                        onEnd:^(NSInteger statusCode, NSString* remoteFilePath) {
                            if (statusCode != 200) {
                                ALog(@"ERR: Status Code = %@", OPInteger(statusCode));
                                return;
                            }
                            ALog(@"INFO: db(|%@|) backup done as |%@|",
                                dbURL, remoteFilePath
                            );
                        }
                    ];
                }
            }
        ];
        if (!b) {
            ALog(@"ERR: NetPut:send(|%@|):to(|%@|):...: failed", outputFileURL, url);
        }
   });
failureBlock:^(NSError *err) {
   ALog(@"ALAssetsLibrary assetURL:resultBlock:failureBlock: |%@|", err);
}
];
```

[[NSFileManager defaultManager]

Notes⁶

- 1. To determine filenameInCameraRoll, use assetForURL:resultBlock:failureBlock: in ALAssetsLibrary class.
- 2. NetPut class is used to upload a video; internally NSURLConnection.⁷
- 3. NSURLConnection should be called in a main thread, which is why dispatch async(dispatch get main queue(), ^{...}) is called.
- 4. In onProgressUpdate, one can update progress in uploading.
- 5. Optionally, updated database can be uploaded too with another call in NetPut class.

⁶ All are packed in AVCam2.zip which is an extension of AVCam.zip (See a footnote 3.)

NetPut class is connected with a PHP script in a server: net_put.php, dev_filter.phpi.