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| **Name** | Arun Vijay | | |
| **Relevant experience in iOS** | Swift - 5+ years, Objective C - 5+ years | | |
| **Xcode version used** | 14.2 | | |
| **Answer the following in Yes/No** | **Yes** | **No** |  |
| Is your code properly formatted and documented | Yes |  |  |
| Is your code running properly, no run time errors present | Yes |  |  |
| Is your task completed | Yes |  |  |
| Does your code uses any third party integration | No |  |  |
| Is your code following standard coding procedures (like naming conventions, proper documentation etc.) | Yes |  |  |
| Any unwanted code is present in files | No |  |  |
| **Design Pattern** | **MVVM** | **MVC** | **MVP** |
| Which design pattern has been followed while doing the machine test | MVVM |  |  |
| **Answer in detail** | | | |
| What was asked in machine test and how did you analysed what is to be implemented | The task is to download images from given URLs and update them to a grid. The user can select to download synchronously or asynchronously. Synchronous download will download the images serially one by one starting from the first. Asynchronous download will download all images concurrently.  UICollectionview is used to design the grid, each item of equal size. The collection view size is set to 3/4th of the screen. The download operation is implemented using the OperationQueue. If sync is selected, each image is downloaded serially one by one - maximum concurrent operation set to 1. If async is selected, images are downloaded concurrently - with maximum concurrent operation set to the number of images. | | |
| Prepare unit test cases for your task, covering all the functionalities and checking if they are working as per the expectation | Yes, The unit test cases are attached along with the source code shared. | | |