

Работа с Android Studio/Xcode

Задание состоит из нескольких частей, направленных на получение практических навыков в Android Studio или Xcode (инструмент зависит от наличия Windows или macOS):

б) Симуляторы в XCode:

Создать симулятор iPad

Создать симулятор iPhone

I. Записать какие отличия симуляторов от физических девайсов нашли

II. Снять логи в ответе приложить скриншоты и написать выполняемые команды

Выполнение задания

Так как у меня макбук, был выбран инструмент XCode. Созданы симуляторы iPad и iPhone.



Рисунок 1 – Симулятор iPhone

С помощью команды **xcrun simctl list** в терминале можно посмотреть все созданные устройства и их текущее состояние.

```
== Devices ==
-- iOS 18.1 --
iPhone SE (3rd generation) (B1AA2007-94CF-438E-A7BF-75DEC9D1861C) (Shutdown)
homework iphone (E4D3F8FF-15F0-4360-80A4-D1645C772715) (Booted)
iPhone 16 Pro (7AF1389B-5E2A-43AC-8CC1-39190B5CD03F) (Shutdown)
iPhone 16 Pro Max (9FB73D78-A987-4F5B-AB7B-E7DF45D22974) (Shutdown)
iPhone 16 (AAFC7584-6054-4551-B6D5-88028E01B476) (Shutdown)
iPhone 16 Plus (E8E4FC05-8003-4BC2-9447-8241364DD1A3) (Shutdown)
iPad (10th generation) (BF266624-1767-46F2-9D09-F8A83D9ACD84) (Shutdown)
homework ipad (24CBBCC3-6298-4C9A-9227-E8B8210B9150) (Shutdown)
iPad Air 11-inch (M2) (BFBD2F1A-E0A4-43B4-BC40-FF71B7B801BC) (Shutdown)
iPad Air 13-inch (M2) (BCFCFF39-E532-48E7-93F6-55E3C12F280E) (Shutdown)
iPad mini (A17 Pro) (D78D0C10-9260-409C-83AC-30CD9D9A538C) (Shutdown)
iPad Pro 11-inch (M4) (115DC3BF-77E5-4F02-9F45-5A3B2DC81FD0) (Shutdown)
iPad Pro 13-inch (M4) (248CB39B-6946-413C-BDFB-9B07A4F7A67E) (Shutdown)
== Device Pairs ==
```

Рисунок 2 – Демонстрация запущенного iphone через терминал (booted)



Рисунок 3 – Симулятор iPad

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-- iOS 18.1 --
iPhone SE (3rd generation) (B1AA2007-94CF-438E-A7BF-75DEC9D1861C) (Shutdown)

homework iphone (E4D3F8FF-15F0-4360-80A4-D1645C772715) (Shutdown)
iPhone 16 Pro (7AF1389B-5E2A-43AC-8CC1-39190B5CD03F) (Shutdown)
iPhone 16 Pro Max (9FB73D78-A987-4F5B-AB7B-E7DF45D22974) (Shutdown)
iPhone 16 (AAFC7584-6054-4551-B6D5-88028E01B476) (Shutdown)
iPhone 16 Plus (E8E4FC05-8003-4BC2-9447-8241364DD1A3) (Shutdown)
iPad (10th generation) (BF266624-1767-46F2-9D09-F8A83D9ACD84) (Shutdown)
homework ipad (24CBBC3-6298-4C9A-9227-E8B8210B9150) (Booted)
iPad Air 11-inch (M2) (BFBD2F1A-E0A4-43B4-BC40-FF71B7B801BC) (Shutdown)
iPad Air 13-inch (M2) (BCFCFF39-E532-48E7-93F6-55E3C12F280E) (Shutdown)
iPad mini (A17 Pro) (D78D0C10-9260-409C-83AC-30CD9D9A538C) (Shutdown)
iPad Pro 11-inch (M4) (115DC3BF-77E5-4F02-9F45-5A3B2DC81FD0) (Shutdown)
iPad Pro 13-inch (M4) (248CB39B-6946-413C-BDFB-9B07A4F7A67E) (Shutdown)
== Device Pairs ==
```

Рисунок 4 – Запущенный ipad

I. Записать какие отличия симуляторов от физических девайсов нашли

1. Симуляторы не поддерживают тестирование аппаратных функций, например, face id/touch id в зависимости от версии, камера, bluetooth. Также не работают датчики, встроенные в телефон. Все то, что невозможно воссоздать на компьютере.
2. Производительность устройства зависит от компьютера, а не от самого устройства, поэтому это невозможно оценить в реалиях симулятора, на настоящем устройстве приложение может работать как хуже, так и лучше, в зависимости от мощности обоих устройств.
3. Так как экран симулятора занимает часть экрана компьютера, а не является собственным экраном, его характеристики так же могут отличаться от реального устройства. Поэтому элементы UI могут выглядеть немного иначе на реальных устройствах.

II. Снять логи в ответе приложить скриншоты и написать выполняемые команды

Логи были сняты с помощью нажатия на кнопку start streaming в консоли у выбранного устройства.

Console
8 136 messages

All Messages Errors and Faults

Type	Time	Process	Message
	10:54:27.701302+0300	libprocess	[com.apple.xbsd] Annotated because the client process (pid 32177) either canceled the connection or exited.
	18:54:27.012232+0300	mobileas:	_MobileAssetVerifyStrongSigning: Successfully extracted public key from trust object
	18:54:27.013011+0300	mobileas:	_MobileAssetVerifyAssetMapSignature: Verifying metadata signature...
	18:54:27.091788+0300	mobileas:	-[DownloadManager massageXmlAndPersist:from:to:with:postedDate:considerCaching:] The xml posting date is: 2023-11-14 19:12:48 +0000 for com.apple.MobileAsset.TTSAXRE:
	18:54:27.093644+0300	mobileas:	-[DownloadInfo addNewRateDataPoint:] DownloadInfo taskDescriptor: com.apple.MobileAsset_UAF_Siri_PlatformAssets.0ff738ed4369de47aa824fabbb8d41d5693d0c9.auto.001F0D0X
	18:54:27.094239+0300	mobileas:	-[DownloadInfo addNewRateDataPoint:] DownloadInfo taskDescriptor: com.apple.MobileAsset_UAF_Siri_FindbyConfigurationFiles.0fa7f10w7743a32d08168ffcc72054f8fd1dd9eb035.eut
	18:54:27.094701+0300	mobileas:	-[DownloadInfo addNewRateDataPoint:] DownloadInfo taskDescriptor: com.apple.MobileAsset_UAF_Siri_LinguisticData.05a25673132a57ff737424f51fb477afe1ccca . task: BackgroundDown
	18:54:27.096164+0300	mobileas:	-[DownloadInfo addNewRateDataPoint:] DownloadInfo taskDescriptor: com.apple.MobileAsset_UAF_Siri_UnderstandingASRHammer.9e2abcbe924fe7cfef2972c000c468df9f67490.auto.
	18:54:27.096789+0300	mobileas:	-[DownloadInfo addNewRateDataPoint:] DownloadInfo taskDescriptor: com.apple.MobileAsset_LinguisticData.9765f98251f94a2910993dbc66e59ff87f9ee193a . task: BackgroundDown
	18:54:27.098389+0300	mobileas:	-[DownloadInfo addNewRateDataPoint:] DownloadInfo taskDescriptor: com.apple.MobileAsset_UAF_Siri_Understanding.9ac68f3231c08f83fa18851c9948c23d08e838dc.auto.E093E02E-
	18:54:27.098845+0300	mobileas:	-[DownloadInfo addNewRateDataPoint:] DownloadInfo taskDescriptor: com.apple.MobileAsset_UAF_Siri_DisalogAssets.6748a1c89b3b590284d0aa88ff7d8048763biaf8.auto.577099B0-
	18:54:27.140884+0300	mobileas:	-[ControlManager writeDictionaryToFile:with:block_invoke: (writeDictionaryToFile) succeeded taskDescriptor:com.apple.MobileAsset_TTSAXResourceModelAssets.xml
	18:54:27.140269+0300	mobileas:	-[DownloadManager taskFinishedUpdateState:with:extraInfo:] Download manager notified of finished task: com.apple.MobileAsset_TTSAXResourceModelAssets.xml
	18:54:27.140567+0300	mobileas:	-[DownloadManager sendDownloadResult:with:extraInfo:] Sending download result 0 (MADownloadSuccessful) for DownloadInfo taskDescriptor: com.apple.MobileAsset_TTSAXRE:
	18:54:27.142293+0300	axassets:	+MAAsset startCatalogDownload:options:completionWithErrors[_block_invoke: Got the download meta data reply for com.apple.MobileAsset.TTSAXResourceModelAssets, response: 0
	18:54:27.142193+0300	mobileas:	-[DownloadManager sendDownloadResult:with:extraInfo:] reporting download attempt DownloadInfo taskDescriptor: com.apple.MobileAsset_TTSAXResourceModelAssets.xml . task: BackgroundDown
	18:54:27.142759+0300	mobileas:	-[DownloadManager sendNotification:suffix:] MA Notifying: com.apple.MobileAsset.TTSAXResourceModelAssets.ma_cached-metadata-updated
	18:54:27.145976+0300	mobileas:	-[MADAnalyticsManager recordDownloadAttemptForAssetType:clientName:baseURL:relativePath:purpose:resultType:analyticsFile fileType:isAutoDownload:isPallas:assetAudience:i
	18:54:27.146229+0300	mobileas:	-[MADAnalyticsManager shouldRecordEventForAssetType:] assetType: TTSAXResourceModelAssets
	18:54:27.148891+0300	mobileas:	-[ControlManager handleClientConnection:] _block_invoke: assetType: com.apple.MobileAsset.TTSAXResourceModelAssets client: axassetsd, command: 1 (MA_QUERY_ASSET_TYPE)
	18:54:27.148200+0300	mobileas:	-[ControlManager handleClientConnection:] _block_invoke: axassetsd issued query command for com.apple.MobileAsset.TTSAXResourceModelAssets
	18:54:27.148281+0300	mobileas:	-[ControlManager handleQueryRequest:clientName:connection:message:] axassetsd queried for: com.apple.MobileAsset.TTSAXResourceModelAssets with returnType of: 2 (MAUNI)
	18:54:27.149976+0300	mobileas:	-[ControlManager determineAssets:clientName:connection:downloadingTasks:message:resultTypes:queryArray:isForSpecificAsset:specificAssetId:specificAllowedDifferences:]
	18:54:27.158573+0300	mobileas:	-[ControlManager newCatalogLoad:withPurpose:] Catalog file location: /Users/rilapankova/Library/Developer/CoreSimulator/Devices/7AF1369B-5E2A-43AC-8C1-3919085CD08F/da
	18:54:27.164437+0300	mobileas:	-[MADAnalyticsManager shouldRecordEventForAssetType:] assetType: TTSAXResourceModelAssets
	18:54:27.195632+0300	mobileas:	-[ControlManager determineAssets:clientName:connection:downloadingTasks:message:resultTypes:queryArray:isForSpecificAsset:specificAssetId:specificAllowedDifferences:]
	18:54:27.29198+0300	axassets:	-[MAAssetQuery getResultsFromMessage:] Got the query meta data reply for: com.apple.MobileAsset.TTSAXResourceModelAssets, response: 0

Рисунок 3 – Логи iphone в приложении консоли

Console
1 699 messages

All Messages Errors and Faults

Type	Time	Process	Message
	19:41:19.195861+0300	runningb	[xpcservice:com.apple.MercuryPoster[osservice:com.apple.PosterBoard:84378]]>(vt hash: 126936722)[uid:5588690-46FD-5977-BD01-F4C074E0PP93]:84488) Set darwin role to
	19:41:19.195864+0300	runningb	84488 Set Darwin GPU to "allow"
	19:41:19.208415+0300	runningb	Invalidating assertion 84296-84299-1889 (target:[xpcservice:com.apple.MercuryPoster[osservice:com.apple.PosterBoard:84378]])>(vt hash: 126936722)[uid:5588690-46FD-f
	19:41:19.263320+0300	location	0ClxSimulated, Fix, 1, 11, 37.7858340, -122.4064370, acc, 5.00, course, -1.0, time, -122.4064370, acc, 5.00, speed, -1.0, course, -1.0, type, 1, alt, 0.0, elipsoids1Alt, 0.0, speedInc, -1.0, courseUn
	19:41:19.264797+0300	location	(*msg*:#pia_zone_relevance-tracker, location notification, "notification":5, "currentLocation":00 00 00 FF 00 00 DD 0A 41 35 96 E4 42 40 76 E2 BC 02 94 t
	19:41:19.265583+0300	location	location MovingApDetector, received location: lat, 37.7858340#, lon, -122.4064370#, alt, 0.0, acc, 5.0, vacc, -1.0, timestamp, 755823279, 3, age, 0.0, type, 1, success: yes
	19:41:19.266923+0300	location	os_transaction created: (0x16bc6f918) wifiEvent
	19:41:19.266964+0300	location	#Wifilogic, handleInput, System::LeechLocation
	19:41:19.267424+0300	location	(*msg*:CLWifilogicSystemLogic::apply, "event":lapsed, "begin_mach":10369498775279, "end_mach":10369498775279, "elapsed_s":0.00036567, "event":System::LeechLocation,
	19:41:19.267464+0300	location	os_transaction releasing System::LeechLocation . event
	19:41:19.267497+0300	location	os_transaction created: (0x16bc6f918) wifiEvent
	19:41:19.267519+0300	location	#Wifilogic, handleInput, System::LeechLocation
	19:41:19.267807+0300	location	(*msg*:CLWifilogicSystemLogic::apply, "event":lapsed, "begin_mach":10369498778456, "elapsed_s":0.000260375, "event":System::LeechLocation,
	19:41:19.267843+0300	location	os_transaction releasing: (0x16bc6f918) wifiEvent
	19:41:19.302653+0300	runningb	Calculated state for xpcservice:com.apple.MercuryPoster[osservice:com.apple.PosterBoard:84378]]>(vt hash: 126936722)[uid:5588690-46FD-5977-BD01-F4AC74E08983]: runr
	19:41:19.364642+0300	SpringBo	Received state update for 84488 (xpcservice:com.apple.MercuryPoster[osservice:com.apple.PosterBoard:84378])>(vt hash: 126936722)[uid:5588690-46FD-5977-BD01-F4AC77
	19:41:19.364479+0300	location	Received state update for 84488 (xpcservice:com.apple.MercuryPoster[osservice:com.apple.PosterBoard:84378])>(vt hash: 126936722)[uid:5588690-46FD-5977-BD01-F4AC77
	19:41:19.363798+0300	PosterBo	Received state update for 84488 (xpcservice:com.apple.MercuryPoster[osservice:com.apple.PosterBoard:84378])>(vt hash: 126936722)[uid:5588690-46FD-5977-BD01-F4AC77
	19:41:19.363625+0300	mediare	Received state update for 84488 (xpcservice:com.apple.MercuryPoster[osservice:com.apple.PosterBoard:84378])>(vt hash: 126936722)[uid:5588690-46FD-5977-BD01-F4AC77
	19:41:19.522046+0300	mobileas:	-[DownloadInfo addNewRateDataPoint:] DownloadInfo taskDescriptor: com.apple.MobileAsset_UAF_Siri_Understanding.e2949af65de4369de47aa824fabbb8d41d5693d0c9.auto.A0982B81
	19:41:19.522797+0300	mobileas:	-[DownloadInfo addNewRateDataPoint:] DownloadInfo taskDescriptor: com.apple.MobileAsset_UAF_Siri_LinguisticData.9765f98251f94a2910993dbc66e59ff87f9ee193a . task: BackgroundDown
	19:41:19.523248+0300	mobileas:	-[DownloadInfo addNewRateDataPoint:] DownloadInfo taskDescriptor: com.apple.MobileAsset_UAF_Siri_DisalogAssets.6748a1c89b3b590284d0aa88ff7d8048763biaf8.auto.C361C986-t
	19:41:19.523645+0300	mobileas:	-[DownloadInfo addNewRateDataPoint:] DownloadInfo taskDescriptor: com.apple.MobileAsset_UAF_Siri_PlatformAssets.0ff738ed4369de47aa824fabbb8d41d5693d0c9.auto.G782B969
	19:41:19.524279+0300	mobileas:	-[DownloadInfo addNewRateDataPoint:] DownloadInfo taskDescriptor: com.apple.MobileAsset_UAF_Siri_FindbyConfigurationFiles.0fa7f10w7743a32d08168ffcc72054f8fd1dd9eb035.eut
	19:41:19.524523+0300	mobileas:	-[DownloadInfo addNewRateDataPoint:] DownloadInfo taskDescriptor: com.apple.MobileAsset_UAF_Siri_UnderstandingASRHammer.ca7ebb9c4a396f5d4dc447f6f4804edeb433ab.auto
	19:41:19.525699+0300	mobileas:	-[DownloadInfo addNewRateDataPoint:] DownloadInfo taskDescriptor: com.apple.MobileAsset_UAF_Siri_UnderstandingASRHammer.ca7ebb9c4a396f5d4dc447f6f4804edeb433ab.auto

homework (UIKitCore)
Subsystem: com.appleUIKit Category: EventDeferring Details

2024-12-04 19:41:05.496869+0300

Рисунок – Логи ipad в приложении консоли

Также логи представлены в отдельных файлах, прикрепленных к дз.