Questions to ask in lab:

- What classes do we need to write descriptions for?
- What information should we prioritize in the summary paragraph?

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☐ Write includes/extends use case descriptions

☐ Update use case descriptions to return to menu, not exit

Project 2

Shorten summary paragraph

Fix MAD (Decision node labels, timer exit, login/decision menus)

Fix SCD (update actors & class types)

Project 3 Requirements:

☐ Sequence diagrams (all use cases)

✓ Argument paragraph

☐ HTML Reports

Use Cases:

- Validate Member (p) Campbell DONE
- Request Provider Directory (p) WES DONE
- Bill ChocAn (p) Dylan
- Request reports (m) Campbell DONE
- Update Member Records (o) Sam
- Update Provider Records (o) Sam
- Run Main Accounting Procedure (t)- Nicholas DONE
 - Includes request 4 reports
- Verify Operator Nicholas DONE
- Verify Manager SonnyDONE
- Verify Provider SonnyDONE

Classes:

- Operator Controller
 - Void updateMemberRecords()
 - Void updateProviderRecords()
- Manager Controller
 - Void requestReports()
- Provider Controller

- Void validateMember()
- Void checkInMember()
- String requestProviderDirectory()
- Account Verifier
 - Int verifyMemberAccount()
 - boolean verifyOperator()
 - Boolean verifyProvider()
 - boolean verifyManager()
- Account
 - String name
 - o Int ID
 - Enum type
 - String streetAddress
 - Int phoneNumber
 - getters
- Operator Menu
 - Void activate(task)
 - Void navigateTo(newMenu)
 - displayValidityMessage(): void
- Manager Menu
 - DisplayValidityMessage(): void
 - Void activate(task)

Void navigateTo(newMenu)

- Provider Menu
 - Void activate(task)
 - Void navigateTo(newMenu)
 - displayValidityMessage(): void
- Member Report
 - Member member
 - generateReport()
- Provider Report
 - Provider provider
 - generateReport()
- Manager Report
 - ProviderList ArrayList<ProviderAccount>
 - Int totalConsultations
 - Double totalFee
 - generateReport()
- EFT Report
 - generateReport()

- Main Accounting Procedure
 - Void runMainAccountingProcedure()
 - Void requestReports()
 - DataCenter clearWeeklyData()
- Service
 - String name
 - Int codeNum
 - getters
- Service Log (composed by services)
 - Account provider
 - MemberAccount Member
 - Service service
 - String date
 - o String time
 - o Double fee
 - toString()
- DataCenter
 - Timer timer
 - providerDirectory : ArrayList <Services>
 - memberList : ArrayList <MemberAccount>
 - providerList : ArrayList <ProviderAccount>
 - userList : ArrayList <Account>
 - serviceLogList : <Service Log>
 - sendProviderDirectory(): void
 - promptMenu()

New Classes:

- Member Account extends Account
 - Int status
 - servicesAccessedThatWeek ArrayList<ServiceLog>
 - weeklyReset()
- Provider Account extends Account
 - o servicesPerformedThatWeek ArrayList<ServiceLog>
 - weeklyReset()
 - o Double weeklyFee
 - Int numConsultations
- ChocAnMain
 - o assembly/runner

Design Discussion:

• Our design achieves healthy cohesion and coupling primarily through the use of modularity. The system consists of 20 different classes, many connected through inheritance or abstraction, each having attributes only accessible through getter methods, and very few attributes can be reset after their initial construction. We use procedural cohesion to clearly define the tasks each class may perform, as well as what information other classes may access. Unfortunately, Java does by nature require some higher coupling, which is primarily showcased in the DataCenter class. Because Java doesn't use pointers, the Data Center must be continuously copied and passed around as a class attribute in order to be efficiently updated, which may cause some security issues. However, our high cohesion and use of strictly private class attributes and very few update methods will hopefully protect the Data Center from any breaches of information, and allow updates to occur as efficiently as possible.

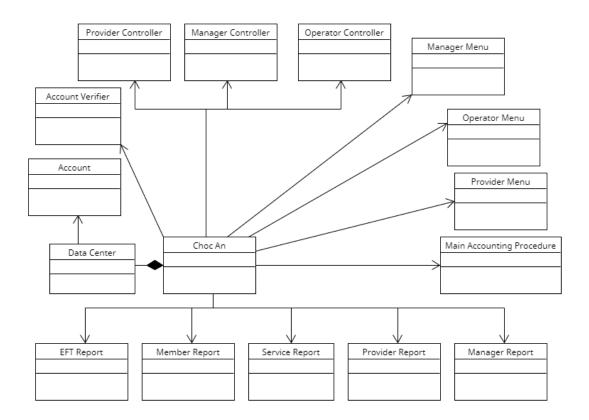
Names	3/21	3/26	3/28	3/30
Dylan lovino	Υ	Υ	N	Υ
Sonny Ngo	Υ	Υ	Υ	Υ
Campbell Thompson	Υ	Υ	Υ	Υ
Nicholas Seidl	Υ	Υ	Υ	Υ
Sam Wood				
Wesley Junkins	Υ	Υ	Υ	Υ

Name	CWID	Email	Hours
Dylan lovino (Submitter)	12196331	djiovino@crimson.ua. edu	6.5
Sam Wood	12165183	scwood4@crimson.u a.edu	6.5
Campbell Thompson	12051119	crthompson10@crim son.ua.edu	7
Wesley Junkins	12048877	wcjunkins@crimson.u a.edu	6.5

Name	CWID	Email	Hours
Nicholas Seidl	12260915	naseidl@crimson.ua. edu	6.5
Sonny Ngo	12126308	smngo@crimson.ua. edu	6

Name	Tasks Performed	% Contributed	Hours
Dylan lovino	Individual class diagram Individual sequence diagram (Bill ChocAn) Individual html Fixed stereotype diagram	16.7%	5.5
Sonny Ngo	Individual class diagram and sequence diagrams (Verify Manager & Provider), Individual HTML report	16.6%	6
Campbell Thompson (Submitter)	Updated written portions of Project 1&2 Sequence Diagrams for Request Reports and Validate Member Finalized Class Diagram Wrote Design Discussion paragraph	16.6%	6.5
Nicholas Seidl	Created individual class diagram Created 2 sequence diagrams(Run Main Accounting Procedure, Verify Operator)	16.7%	6.5
Sam Wood	Individual main class diagram, two sequence diagrams (Update Provider/Member Records), HTML file, fixed activity diagram	16.7%	5.5
Wesley Junkins	Individual Main Class Diagram, Individual Sequence diagram,	16.8%	6.5

De Re	ersonal HTML file, esigned and Developed eport.HTML, compiled dividual HTML file.		
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ManagerRe	port	MemberReport	Provide	rReport	EFTReport
oviderAccounts : ArrayLi	st <provideraccount></provideraccount>	-member : Member	-provider : Provide	er	
talConsultations : int		+generateReport() : void	+generateReport() : void	+generateReport() : void
talFee : double					
enerateReport() : void					
Manag	erController	OperatorController	ProviderO	ontroller	
+requestRepor	ts() : void	+updateMemberRecords(): void	+validateMember		
		+updateProviderRecords() : void	+checkInMember(
			+requestrrovideri	Directory() : string	
		0		***************************************	
Man	agerMenu	OperatorMenu	Provide	rMenu	
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		г			Account
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					-ID : int
+verifyMember	Account() : int		+runMainAccountingPr		-type : enum
+verifyOperato +verifyUser(): i			+requestReports(): voic +clearWeeklyData(): voice		-streetAddress : string -phoneNumber : int
, , , , , , , , , , , , , , , , , , , ,			,		+getName() : string
					+getID() : int
					+getType() : enum +getStreetAddress() : string
					+getPhoneNumber() : int
					+setName() : void
		_			+setID() : void +setType() : void
		Service	Servio	eLog	+setStreetAddress() : void
		-name : string	-provider : Provide		+setPhoneNumber() : void
		-code : int	-member : Membe		
		+getName() : string	-service : Service		
		+getCode() : int	-date : string -time : string		
			-fee : double		
			-toString() : string		
DataCo	enter	MemberAccour	nt		ProviderAccount
-timer : Timer		-status : int			ormedThatWeek : ArrayList <servicelog></servicelog>
-timer : Timer -providerDirectory : Ar	rayList <service></service>	-status : int -servicesAccessedThatWeek : Arra		-weeklyFee : d	ormedThatWeek : ArrayList <servicelog></servicelog>
-timer : Timer -providerDirectory : Ar -memberList : ArrayLis -providerList : ArrayLis	rayList <service> st<memberaccount> st<provideraccount></provideraccount></memberaccount></service>	-status : int		-weeklyFee : d -numConsulta	ormedThatWeek : ArrayList <servicelog> louble stions : int</servicelog>
-timer : Timer -providerDirectory : Ar -memberList : ArrayLis -providerList : ArrayList- -userList : ArrayList-Ar	rrayList <service> st<memberaccount> st<provideraccount> ccount></provideraccount></memberaccount></service>	-status : int -servicesAccessedThatWeek : Arra		-weeklyFee : d	ormedThatWeek : ArrayList <servicelog> louble stions : int</servicelog>
-timer : Timer -providerDirectory : Ar -memberList : ArrayLis -providerList : ArrayLis -userList : ArrayList <ar -serviceLogList : Array</ar 	rrayList <service> st<memberaccount> st<provideraccount> ccount> List<servicelog></servicelog></provideraccount></memberaccount></service>	-status : int -servicesAccessedThatWeek : Arra		-weeklyFee : d -numConsulta	ormedThatWeek : ArrayList <servicelog> louble stions : int</servicelog>
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-timer : Timer -providerDirectory : Ar -memberList : ArrayLis -providerList : ArrayLis -userList : ArrayList <ar -serviceLogList : Array</ar 	rrayList <service> st<memberaccount> st<provideraccount> ccount> List<servicelog></servicelog></provideraccount></memberaccount></service>	-status : int -servicesAccessedThatWeek : Arra		-weeklyFee : d -numConsulta	ormedThatWeek : ArrayList <servicelog> louble stions : int</servicelog>
-timer : Timer -providerDirectory : Ar -memberList : ArrayLis -providerList : ArrayLis -userList : ArrayList <ar -serviceLogList : Array</ar 	rrayList <service> st<memberaccount> st<provideraccount> ccount> List<servicelog></servicelog></provideraccount></memberaccount></service>	-status : int -servicesAccessedThatWeek : Arra +weeklyReset() : void		-weeklyFee : d -numConsulta	ormedThatWeek : ArrayList <servicelog> louble stions : int</servicelog>

Campbell:

