Actor: Provider(p), Managers, DataCenter, product itself, ACME

Needs:

- Database for client & provider information
    - Add/delete/update profiles
- Display:
    - Validate Cards using terminal (valid/invalid/suspended)
        - Interacts with Data Center
    - Enter date
    - Enter service code & verify
        - Can pull up directory pop-up
    - Record service information (including price)
- Service Directory: includes all service codes & names (email)
- Provider report (requestable at any time)
    - Tally up weekly fees
    - Send to billing services
- Member report (requestable)
    - List of services requested that week
- Manager report
    - All providers to be paid & services provided
    - Total consultations
    - Overall fees

Use Cases:

- Check in member (p)
    - Includes Validate member card
- Request provider directory (p)
    - Extends check in
- File service report (p)
    - Includes validate member card
- Request reports (m)

  Use Case: Request reports

  Actors: Manager

  Main success:

  1. Manager inputs request for provider, member, or summary report
- Request Manager report (m)
- Send weekly reports (s)
- Send weekly bills (s)
- Update member & provider records (p, m)

Glossary:

- ChocAn
- Provider
- ChocAn data center
- Provider directory (terminal)
- EFT
- ACME accounting services
- Manager

- Provider Directory (software product)
- Provider report
- Manager report
- Member report
- ChocAn member
- Provider terminal

UPDATED Summary paragraph:

- Chocoholics Anonymous, or “ChocAn,” is a company dedicated to helping people overcome addiction to chocolate. Members have access to a plethora of services including dieting consultation, personal trainers, and much more. Our software will be able to complete all processes necessary to a comfortable customer and healthcare provider experience. The sole 4 actors include healthcare providers, managers, operators, and a timer. From the central terminal, providers will be able to check in customers by scanning their member card and then logging service details to the company Data Center. This report requires a service code, which may be accessed in the Provider Directory pop-up. Upon completing this report, providers may scan the member card again to bill the company. Every Friday at midnight, the timer runs the Main Accounting Procedure through the third party ACME Accounting services. Additionally, it compiles all the transaction information for the week and sends out summary member, provider, manager, and EFT reports to all members, providers, and managers. Managers can also request these reports at any time. Member and provider profiles may be managed *only* by software operators. This project will be coded in Java and will take an estimated 3 months to complete by our team of 6 members: Dylan Iovino, Wesley Junkins, Sonny Ngo, Nicholas Seidl, Campbell Thompson, and Sam Wood. For Project 1, we created a glossary of terms necessary to use our software, as well as a Use Case Diagram and Use Case Descriptions for our initial design.

- Our team of 6 members was tasked with creating a Data Management software in approximately 10 weeks for Chocoholics Anonymous, a company dedicated to helping people overcome chocolate addictions. Project 1 focused on finding the general requirements for the software. We started by creating a Use Case Diagram comprised of 11 total use cases and 3 actors. Next, we wrote detailed descriptions of each use case, including the context, main success scenario, and possible extensions or exceptions. Finally, we assembled a glossary of terms necessary to understanding our project correctly. All of these files were then compiled from our Bitbucket repository and submitted in an HTML file.

Name	CWID	Email	Hours
Dylan Iovino	12196331	djiovino@crimson.ua.edu	5.67
Sam Wood	12165183	scwood4@crimson.u	5.5

Name	CWID	Email	Hours
		a.edu	
Campbell Thompson	12051119	crthompson10@crimson.ua.edu	6.5
Wesley Junkins	12048877	wcjunkins@crimson.ua.edu	6.0
Nicholas Seidl	12260915	naseidl@crimson.ua.edu	5.8
Sonny Ngo	12126308	smngo@crimson.ua.edu	5.39

Name	Tasks Performed	% Contributed
Dylan Iovino	Organized Meetings UML Diagram 1 Use Case Description (File Service Report)	16.7%
Sonny Ngo	UML Diagram 2 use case description (Check in, validate member card)	16.6%
Campbell Thompson	UML Diagram 1 use case description (Request reports) Summary paragraph	16.6%
Nicholas Seidl	UML Diagram 2 Use Case Descriptions (Send Weekly Reports/Send Weekly Bills)	16.7%
Sam Wood	UML Diagram, Glossary, 1 Use Case Description (update member/provider records), personal HTML file	16.7%
Wesley Junkins	UML Diagram, 2 Use Case Description: Request Manager Report, Request Provider Directory, Report.HTML file compilation.	16.7%

Use Case: Request report
Actors: Manager
Context: Manager may request any of the 4 report types at any time
Main Success:

1. System verifies user is a manager
2. Manager selects either a member, provider, manager, or EFT report on main request report page
3. System gathers necessary information from the Data Center (i.e., Names, services, etc.)
4. System formats information in an email and sends to manager
5. System returns to the Request report home page

Extensions:

3.a Member report

1.a.1 System compiles member name, number, and billing address; and provider name, service date, and service name for each service provided that week

1.a.2 Continue at step 4

3.b Provider Report

1.b.1 System compiles provider name, number, and billing address; and all service and member information for each service provided that week

1.b.2 Continue at step 4

3.c Manager report

1.c.1 System compiles all provider names, number of services provided, and money owed to each provider, as well as total providers who worked that week, total services provided, and overall fee for the week

1.c.2 Continue at step 4

3.d EFT report

1.d.1 System writes all electronic funds transfer data to a disk detailing all providers that need to be paid for the week.

1.d.2 Continue at step 4

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Use Case: Validate Member
Actors: Provider
Context: Provider checks in member for service by scanning their card

1. Provider runs a membership card through the central terminal
2. Terminal checks the Data Center to validate the member number
3. System writes result to one-line display
4. System returns to main menu

Extensions:

2.a Valid number

2.a.1 The system finds the member's number in the Data Center

2.a.2 The system writes the word "Validated" on the one-line display.

2.a.3 Continue at step 4

2.b Invalid number

2.b.1 The system does not find the member's number in the Data Center.
2.b.2 The system writes "Invalid number" on the one-line display.
2.b.3 Continue at step 4

2.c Member suspended

2.c.1 The system finds the member number, but the member's status is suspended due to unpaid fees

2.c.2 The system writes "Member suspended" on the one-line display.
2.c.3 Continue at step 4

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Use Case: Run Main Accounting Procedure
Context: Each Friday at midnight, the Chocoholics Anonymous data center sends weekly reports through the main accounting procedure.
Actors: Timer
Main Success Scenario:

1. Timer begins the main accounting procedure at midnight on each Friday.
2. System requests a member report for each Chocoholics Anonymous member.
3. System sends each member their weekly report in an email attachment.
4. System requests a provider report for each Chocoholics Anonymous provider.
5. System sends each provider their weekly report in an email attachment.
6. System returns to the main menu.

Extensions:
N/A

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Use Case: Verify Operator
Context: System verifies that the current operator is a valid operator.
Actors: Operator
Main Success Scenario:

1. System prompts the current operator for their operator ID.
2. System checks that the provided ID matches a valid ID.
3. System displays a successful verification message to the user.
4. System continues to the next procedure as normal

Extensions:
3.a Invalid ID

3.a.1 System prints a message detailing that the provided ID was invalid.
3.a.2 System returns to step 1, prompting the user for another ID

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Use Case: Check in member
Context: Every member has a plastic card with their name and a nine-digit member number on it. The card also contains a magnetic stripe with the information stored on it. Every provider has a specifically created ChocAn computer terminal to render services to said members. The provider is prompted to input their provider number when their terminal is turned on. When

seeking healthcare services from ChocAn, the member presents their card to the provider who swipes it through the terminal's card reader.
Actors: Provider
Main Success:
1. After the provider swipes the card in, the terminal dials the ChocAn Data Center, the computer then verifies the member number.
2. If the number is valid, the word "Validated" appears on the one-line display and they are checked in.
Extensions: N/A

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Use Case: Validate member card
Context: When seeking healthcare services from ChocAn, the member presents their card to the provider who swipes it through the terminal's card reader. The terminal then connects to the ChocAn Data Center, where the computer verifies the member's number.
Actors: Provider, Data Center
Main Success:
1. After the provider swipes the card in, the terminal dials the ChocAn Data Center, the computer then verifies the member number.
2. If the number is valid, the word "Validated" appears on the one-line display.
3. If the number is invalid, the reason is displayed, i.e. "invalid number" or "member suspended"; member suspension means that fees are owed (the member has not paid membership fees for at least one month) and status changes to suspended.
Extensions: N/A
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Use Case: Bill ChocAn
Context: After a visit with a member, the provider must record the session at the terminal in order to keep records and receive payment for the session
Actors: Provider
Main Success Case:

1. Provider swipes Member card
2. System validates Member card
3. Terminal displays “Validated” if valid card
4. Provider keys in date of service
5. Provider keys in service code (type of service)
6. Terminal displays service for code entered
    6.1 Terminal asks Provider to verify service is correct
7. Provider has option to enter comments about service
8. System writes record to disk
    8.1 Record contains the following
    Current date/time
    Date service provided
    Provider Number

Member Number
Service code
Comments

9. System looks up and displays fee to be paid for service
10. Terminal asks Provider to verify fee to be paid
11. Provider is asked to enter the following
    11.1 Current date/time
    Date service provided
    Member Name
    Member Number
    Service code
    Fee to be paid
12. System returns to main menu

Extensions

2a. Member card is invalid
    2a.1 Terminal displays error message (nonexistent member or suspended member)
    2a.2 Return to step 1

5a. Service code is invalid
    5a.1 Terminal displays error message
    5a.2 Return to step 5

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