

REQUIREMENTS WORKFLOW FOR THE CHOCOHOLICS ANONYMOUS PROJECT Group Assignment # 2

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Content

- 1. Description of the Domain
- 2. Glossary
- 3. Business Model
- 4. Initial Requirements
- 5. Final Requirements
- 6. Metrics Measured
- 7. Appendix

1. Description of the Domain

ChocAn is an organization established to help people who are addicted to chocolate. Members pay a monthly fee to ChocAn for access to unlimited consultations and treatments with health care professionals, dietitians, internists, and exercise experts. Each provider who provides services to ChocAn members have a ChocAn computer terminal, and when turned on it asks for the provider number and then sends it to the ChocAn Data Center to verify the member number. To bill ChocAn the provider passes the card through the card reader or keys in the member number. Next, the provider uses the Provider Directory and can enter comments and the information which is written to the disk. Provider can request the software product for a Provider Directory at anytime. Each week Friday at midnight the accounting procedure is run at the ChocAn Data Center, and a ChocAn manager can request an individual report from the ChocAn Data Center. Furthermore, EFT data is written to a disk and a summary report is given to the manager. The software at ChocAn Data Center is run in interactive mode to allow operators to add, delete, and update members. This can be done with providers as well. Processing payments for ChocAn membership fees are contracted out to a third party.

2. Glossary

Terms	Descriptions
Accounts Payable	The amount of money that ChocAn owes to its provider for providing services or treatments to the ChocAn members
Acme Accounting Services	A third-party organization who is responsible for financial procedures such as recording payments of membership fees, suspending members whose fees are overdue, and reinstating suspended members who have now paid what is owing. The Acme computer updates the relevant ChocAn Data Center computer membership records each evening at 9 P.M.
Active Member	A member who is up to date with his or her payments and is qualified to consultations or treatments
Addiction	Compulsive need for and use of a habit-forming substance such as chocolate

Aerobics	A physical fitness program based on various exercises like jogging, cycling, etc.
Chocoholics Anonymous (ChocAn)	An organization dedicated to helping people addicted to chocolate in all its glorious forms
ChocAn Data Center	A large group of networked computer servers used by ChocAn for the remote storage, processing, or distribution of large amounts of data.
ChocAn Manager	Cane request reports anytime during the week.
ChocAn Member	A person who is part of the ChocAn organization and enjoy the services provided by ChocAn
ChocAn Operators	A ChocAn employee who is responsible for maintaining information about providers and members like adding new members to ChocAn, deleting members who have resigned, and updating member records.
ChocAn Provider	Health care professionals who provides services to ChocAn member
Consultations	A process of formally consulting or discussing something with a healthcare professional
Dietitians	An expert on diet and nutrition.
Electronic Funds Transfer (EFT)	A transaction in which an amount of money is transferred from one bank account to another via Transfer (EFT) the internet.
EFT Data	Data that is used to transfer funds electronically from the ChocAn bank account to the provider's bank account.
Embossed	Carve, mold, or stamp a design or information on a surface
Exercise Experts	A health-care professional who creates an exercise routine custom fitted for an individual, and screens his or her progress.

Internists	A specialist in internal medicine.
Magnetic strip	A plastic strip on which information can be recorded for automatic reading, decoding, or recognition by a device.
Member Number	A nine digit number that is used by the organization to distinctively identify a ChocAn member.
Member Status	A state or status of a ChocAn member. A member status can be active or suspended.
Membership Card	A small plastic card issued to and held by a ChocAn member that verifies the member's membership for a given period.
Membership Fee	A certain amount of money that people must pay in order to become a ChocAn member
Provider Directory	An alphabetically ordered list of service names and corresponding service codes and fees.
Provider's Form	A piece of document that a ChocAn provider fills out containing information about the current date and time, the date the service was provided, member name and number, service code, and fee to be paid.
Provider Number	A nine digit number that is used by the organization to distinctively identify a ChocAn provider.
Provider Terminal	Simulates usings keyboard input and data that appears on the screen.
Report	An electronic file that each ChocAn provider receives which contains the list of services he or she provided to ChocAn members.
Service	Consultations and treatments by health care professionals.
Service Code	A six digit code that is used by the organization to distinctively identify the service provided

Suspended Member	A member who is not up to date with his or her payments and is not qualified to consultations or treatments
Treatments	A synonym used for consultation.

3. Business Model for ChocAn Organization

A business model can be defined as a description of the business processes an organization goes through. Members of the organization interview various managers and staff members of the ChocAn Organization and discover the way the Organization operates. People who are addicted to chocolates can apply at any time to the ChocAn Organization for unlimited consultations and treatments with health care professionals like dietitians, internists, and exercise experts. A ChocAn Organization staff member first determines whether the applicant qualifies for a ChocAn membership if so, the applicant pays a monthly fee to the organization which has been contracted to a third party organization called Acme Accounting Services and becomes an active member. Once they are an active member, they are given a ChocAn membership card which contains the member's name and a 9 digit member number. Next, a ChocAn provider verifies the member number using the ChocAn Data Center computer. If the member number is valid, the word Validated is displayed. If the member number is not valid, the word "Invalid" is displayed or "Member Suspended" along with what the member owes is displayed. When a member receives a health care service, the provider uses the membership card and the provider directory to bill ChocAn organization. The provider's terminal displays fees to paid by ChocAn for the services. The provider just fills out a form with all of the member's information. Each provider who has billed ChocAn and manager of accounts payable receives a report as an email attachment that contains information about the members, services provided, providers information, total number of consultations with members, and total fee for that week. A record consisting of electronic funds transfer data is written to a disk and banking computers will ensure the provider receives the payment of the services provided.

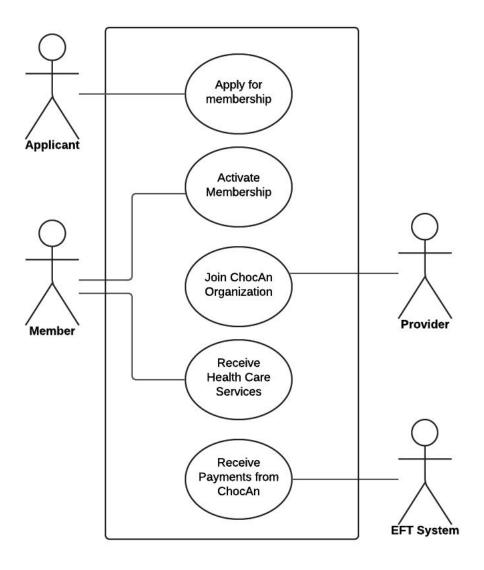


Fig: Use case diagram of the business model for ChocAn Organization

4. Initial Requirements

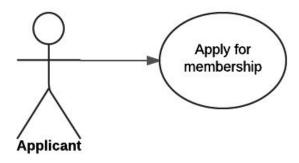


Fig 1: Apply for Membership use case for ChocAn Organization

Brief Description

When an applicant applies for a membership, the Apply for Membership use case enables a ChocAn organization staff member to determine whether the applicant qualify for a membership and if so, the staff member issues a membership card.

Step-by-Step Description

Not applicable at this stage

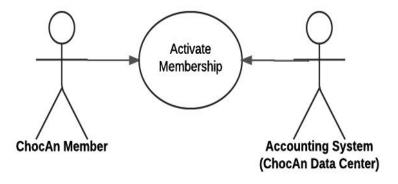


Fig 2: Activate Membership use case for ChocAn Organization

Brief Description

The Activate Membership use case enables a ChocAn member to become an active member of the ChocAn by making a monthly fee to the ChocAn organization.

Step-by-Step Description

Not applicable at this stage

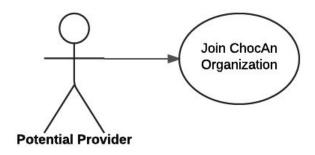


Fig 3: Join ChocAn Organization use case

Join ChocAn Organization use case enables a potential provider to become a an active provider of the ChocAn organization.

Step-by-Step Description

Not applicable at this stage

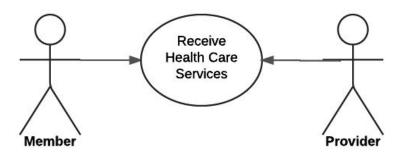


Fig 4: Receiving Health Care Services use case

Brief Description

Receiving Health Care Services use case enables members to receive health care services by using their membership card.

Step-by-Step Description

Not applicable at this stage

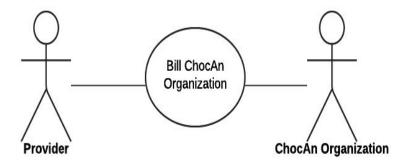


Fig 5: Bill ChocAn organization use case

Bill ChocAn use case enables provider to bill ChocAn for the services he/she provided to each ChocAn member.

Step-by-Step Description

Not applicable at this stage

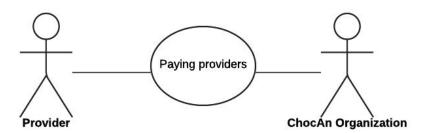


Fig 6: Paying Providers use case

Brief Description

Paying Providers use case enables ChocAn to pay each provider for the services they provided to each ChocAn member.

Step-by-Step Description

Not applicable at this stage

5. Final Requirements

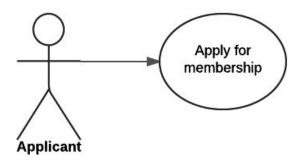


Fig 1: Apply for Membership use case for ChocAn Organization

Brief Description

When an applicant applies for a membership, the Apply for Membership use case enables a ChocAn organization staff member to determine whether the applicant qualify for a membership and if so, the staff member requests a monthly payment..

- 1. Applicants fills out an application form and submit it to the ChocAn organization.
- 2. ChocAn staff member verifies the applicant's information.
- 3. If the applicant gets approved, the staff member uses the Activate membership use case and asks the applicant to make a payment.

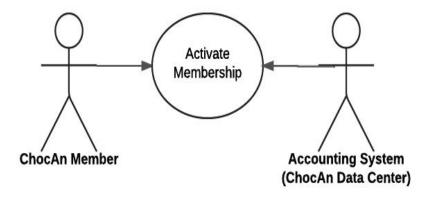


Fig 2: Activate Membership use case for ChocAn Organization

The Activate Membership use case enables an applicant to become an active member of the ChocAn by paying a monthly fee to the ChocAn organization.

- 1. Applicants pay a monthly fee to ChocAn organization.
- 2. The ChocAn staff member receives the payment and updates the applicant as an active member of ChocAn using the Accounting System.
- 3. Every member is given a membership card
 - a. The membership card contains the member's name and 9 digit member number

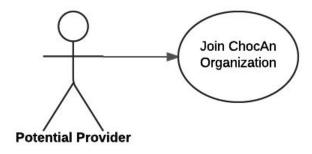


Fig 3: Join ChocAn Organization use case

Join ChocAn Organization use case enables a potential provider to become an active provider of the ChocAn organization.

- 1. Potential provider fills out an application form and submit all required information to the ChocAn organization.
- 2. ChocAn staff member verifies the potential provider's information.
- 3. If the provider gets approved to provide services to ChocAn members, a ChocAn operator uses Maintain Provider Records use case to record the new provider's information and issue him a provider number.

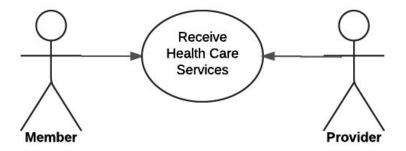


Fig 4: Receiving Health Care Services use case

Receiving Health Care Services use case enables member to receive health care services by using their membership card.

- 1. ChocAn provider provides health care services to each ChocAn member.
- 2. The member hands in their membership card to the provider.
- 3. The provider slides the card through the card reader on the terminal.
- 4. Terminal then dials the ChocAn Data Center.
- 5. ChocAn Data Center verifies if the member number is "Valid" or "Suspended."
 - a. If the member number is "Valid" the terminal displays "Validated."
 - b. If the member number is "Suspended" the terminal displays "Invalid Number" or "Member Suspended."
 - i. If "Member Suspended" then the terminal displays the fees owed by the ChocAn member

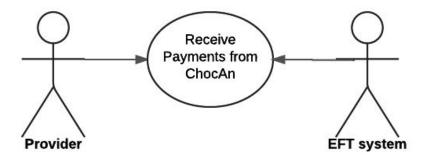


Fig 5: Receive Payments from ChocAn organization use case

Receive Payments from ChocAn organization use case enables provider to bill ChocAn and receive payments for the services he/she provided to the ChocAn members.

- 1. Each provider bills ChocAn after a health care service has been provided to the ChocAn member.
- 2. Provider passes the membership card through the card reader or keys in the member number.
 - a. If the member number is valid, the provider keys in the date the service was provided in the format MM-DD-YYYY
- 3. The provider then uses the provider directory to lookup the appropriate 6 digit service code corresponding to the services provided.
- 4. The provider keys in the service code
 - a. Then displays the name of the service corresponding to the code and then the provider verifies if it is correct.
 - b. If a nonexistent code is entered an error message is printed
- 5. The provider also can enter comments about the service provided
- 6. The software product now writes the record to disk with the fields:
 - a. Current data and time (MM-DD-YYYY HH:MM:SS)
 - b. Date service was provided (MM-DD-YYYY)
 - c. Provider number (9 digits)
 - d. Member number (9 digits)
 - e. Service code (6 digits)
 - f. Comments (100 characters) (optional)
- 7. The system then displays the amount to be paid to the provider for the service provided to the ChocAn member. The provider then fills out a provider's form that contains the displayed information.

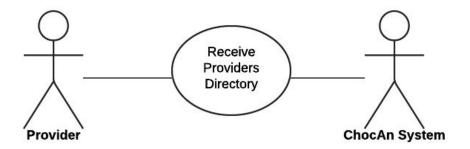


Fig 6: Request/Receive Provider Directory use case

Request/Receive Provider Directory use case enables the provider to request and receive the provider directory.

- 1. A provider can request the software product for a Provider Directory at any time.
 - a. Provider directory is an alphabetically ordered list of service names and corresponding service codes and fees.
 - i. Service name (20 characters)
 - ii. Service code (6 digits)
 - iii. Total fee for that week (up to \$99,999.99)
- 2. The provider directory is sent to the provider via email.

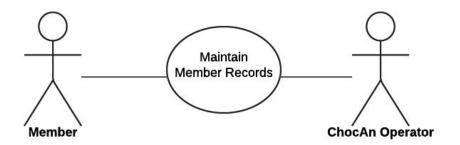


Fig 7: Maintaining Member Records use case

Maintaining Member Records use case enables a ChocAn operator to add, delete, and update member records.

- 1. The software at the ChocAn Data Center is run in interactive mode so that operators can:
 - a. Add members
 - b. Delete members
 - c. Update member information

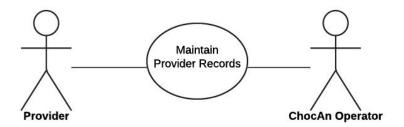


Fig 8: Maintaining Provider Records use case

Maintaining Provider Records use case enables ChocAn operator to add, delete, and update provider records.

- 1. The software at the ChocAn Data Center is run in interactive mode so that operators can:
 - a. Add providers
 - b. Delete providers
 - c. Update providers information

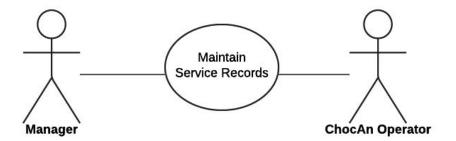


Fig 9: Maintaining Service Records use case

Maintaining Service Records use case enables ChocAn operator to add, delete, and update service records..

- 1. The software at the ChocAn Data Center is run in interactive mode so that operators can:
 - a. Add service records
 - b. Delete service records
 - c. Update service record information

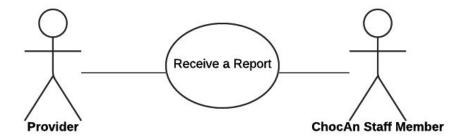


Fig 10: Receives a Report use case

Receives a Report use case enables provider to receive a report from a ChocAn staff member about the services he/she provided.

- 1. Each provider who has billed ChocAn during that week receives a report as an email attachment containing the list of services he or she provided to ChocAn members.
- 2. For verification, the report contains the same information as that entered on the provider's form, in order that the data were received by the computer.
- 3. At the end of the report there is a summary which includes information about:
 - a. Provider name (25 characters)
 - b. Provider number (9 digits)
 - c. Provider street address (25 characters)
 - d. Provider city (14 characters)
 - e. Provider state (2 letters)
 - f. Provider ZIP code (5 digits)
 - g. For each service provided, the following details are required:
 - i. Date of service (MM-DD-YYYY)
 - ii. Date and time data were received by the computer (MM-DD-YYYY HH:MM:SS)
 - iii. Member name (25 characters)
 - iv. Member number (9 digits)
 - v. Service code (6 digits)
 - vi. Fee to be paid (up to \$99.999.99)
 - h. Total number of consultations with members (3 digits)
 - i. Total fee for week (up to \$99,999.99)

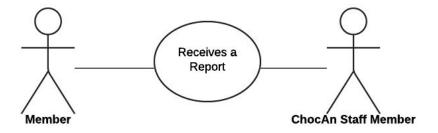


Fig 11: Receives a Report use case

Receives a Report use case enables member to receive a report from ChocAn organization as a record of their visit to a ChocAn provider.

- 1. Each member who has consulted a ChocAn provider during that week receives a report which contains:
 - a. Member name (25 characters)
 - b. Member number (9 digits)
 - c. Member street address (25 characters)
 - d. Member city (14 characters)
 - e. Member state (2 letters)
 - f. Member zip code (5 digits)
 - g. For each service provided (sorted in order of service date), the following details are required:
 - i. Date of service (MM-DD-YYYY)
 - ii. Provider name (25 characters)
 - iii. Service name (20 characters)

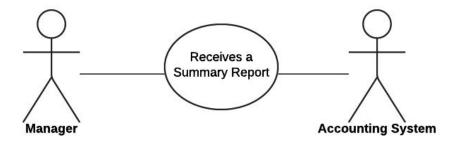


Fig 12: Receives Summary Report use case

Receives Summary Report use case enables ChocAn manager to receive a summary report from the accounting system.

- 1. Each week Friday at midnight the accounting procedure is run at the ChocAn Data Center, and a ChocAn manager can request an individual report from the ChocAn Data Center.
- 2. The report is generated automatically from the accounting system and sent to the ChocAn manager every week.
- 3. A summary report contains the information about:
 - a. Every provider paid that week
 - b. Number of consultations each had
 - c. Total fee for the week
 - d. Total number of providers who provided services
 - e. Total number of consultations
 - f. Overall total fee are printed

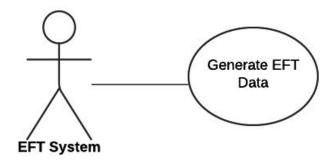


Fig 13: Generate EFT Data use case

The EFT or electronic funds transfer writes data to disk and then banking computers ensure the provider is paid.

- 1. A record consisting of electronic funds transfer (EFT) data is written to disk.
 - a. Banking computers will ensure each provider receives the appropriate amount for the services provided.

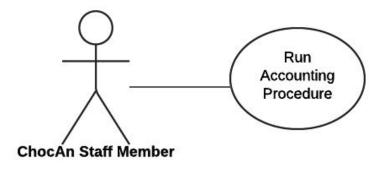


Fig 14: Run Accounting Procedure use case

Run Accounting Procedure use case enables the accounting procedure to run at the ChocAn Data Center.

- 1. At midnight on Friday every week the main accounting procedure is run at the ChocAn Data Center.
 - a. It reads the week's file of services provided and prints a number of reports.

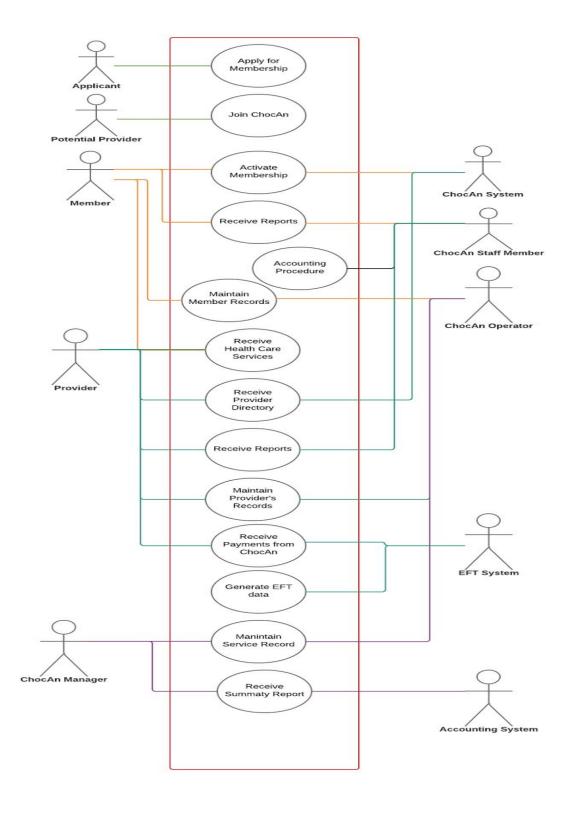


Fig: Use case diagram for Final Requirements

6. Metrics

Metric 1: Changes

After working on our business model we thought eliminating use case "Apply for Membership" and use case "Join ChocAn" in iteration one would make more sense. This is because according to the book example "MSG Foundation case study" the business case and the initial requirements were not exactly the same and did not include the initial steps such as "Apply for a Membership".

While working on iteration two we found out that combining use cases "Pay Bills" and "Billing ChocAn" would make the requirements easier to understand as "Pay Bills" and "Billing ChocAn" depicts the same process. It would also make the requirements less complicated. Moreover, we reintroduced use cases "Apply for Membership" and "Join ChocAn" to the requirements because we discovered they were actually necessary in order to fully comprehend the process.

Metric 2: Error Finding

Initially, we had trouble identifying the different actors for our requirements. For this reason, in our iteration one we ended up with too many processes associated with only two of the actors (Iteration 1, Fig:5 Billing ChocAn Organization use case and Fig 6: Paying Providers use case). To fix this error, we drew several use cases to identify potential actors and by using this trial and error method we were able to split up informations and identify more actors (Iteration 2).

7. Appendix

I. Iteration 1:

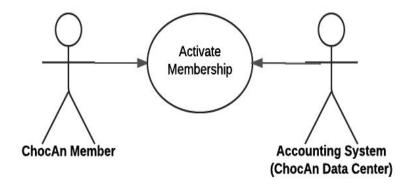


Fig 2: Activate Membership use case for ChocAn Organization

Brief Description

The Activate Membership use case enables a ChocAn member to become a an active member of the ChocAn by paying a monthly fee to the ChocAn organization.

- 1. Members pay a monthly fee to ChocAn organization.
- 2. Every member is given a membership card
 - a. The membership card contains the member's name and 9 digit member number

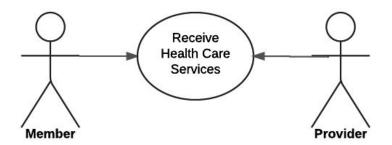


Fig 4: Receiving Health Care Services use case

Member receives health care services by using their membership card.

- 1. ChocAn provider provides health care services to each ChocAn member
 - a. First the member give the provider their membership card
 - b. The provider slide the card throw the card reader on the terminal
 - c. Terminal then dials the ChocAn Data Center
 - d. ChocAn Data Center verifies if the member number is valid or suspended
 - i. If the member number is valid the terminal displays Validated
 - ii. If the member number is suspended the terminal displays Invalid Number or Member Suspended
 - 1. If Member Suspended then the terminal displays the fees owed by the ChocAn member

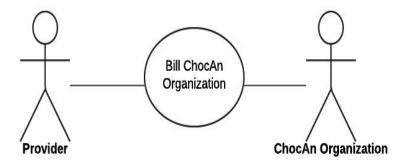


Fig 5: Billing ChocAn Organization use case

Provider bills ChocAn for the services provided.

- 2. Each provider bills ChocAn after a health care service has been provided to the ChocAn member.
- 3. Provider passes the membership card through the card reader or keys in the member
 - a. If the member number is valid, the provider keys in the date the service was provided in the format MM-DD-YYYY
- 4. The provider then uses the provider directory to lookup the appropriate 6 digit service code corresponding to the services provided.
- 5. The provider keys in the service code
 - a. Then displays the name of the service corresponding to the code and then the provider verifies if it is correct.
 - b. If a nonexistent code is entered an error message is printed
- 6. The provider also can enter comments about the service provided
- 7. The software product now writes the record to disk with the fields:
 - a. Current data and time (MM-DD-YYYY HH:MM:SS)
 - b. Date service was provided (MM-DD-YYYY)
 - c. Provider number (9 digits)
 - d. Member number (9 digits)
 - e. Service code (6 digits)
 - f. Comments (100 characters) (optional)
- 8. Each provider who has billed ChocAn during that week receives a report as an email attachment containing the list of services he or she provided to ChocAn members
- 9. For verification the report contains the same information as that entered on the provider's form, in order that the data were received by the computer.
- 10. At the end of the report there is a summary which includes information about:

- a. Provider name (25 characters)
- b. Provider number (9 digits)
- c. Provider street address (25 characters)
- d. Provider city (14 characters)
- e. Provider state (2 letters)
- f. Provider ZIP code (5 digits)
- g. For each service provided, the following details are required:
 - i. Date of service (MM-DD-YYYY)
 - ii. Date and time data were received by the computer (MM-DD-YYYY HH:MM:SS)
 - iii. Member name (25 characters)
 - iv. Member number (9 digits)
 - v. Service code (6 digits)
 - vi. Fee to be paid (up to \$99.999.99)
- h. Total number of consultations with members (3 digits)
- i. Total fee for week (up to \$99,999.99)
- 11. A record consisting of electronic funds transfer (EFT) data is written to disk.
 - a. Banking computers will ensure each provider receives the appropriate amount for the services provided.

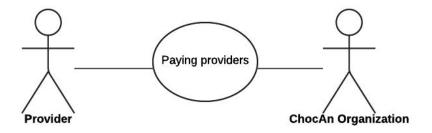


Fig 6: Paying Providers use case

ChocAn pays the provider for their services.

- 2. The software product looks up the fee to be paid for the service and displays it on the provider's terminal.
- 3. For verification, the provider fill out a form which contains information about:
 - a. Current data and time
 - b. The date the service was provided
 - c. Member name and membership number:
 - d. Service code
 - e. Fee to be paid by ChocAn
- 4. Provider can request for a Provider Directory at any time.
 - a. Sent as an email attachment
- 5. At midnight on Friday the main accounting procedure is run at the ChocAn Data Center.
 - a. It reads the week's file of services provided and prints a number of reports.
- 6. Each report can be individually run at the request of the ChocAn manager at any time during the week.
- 7. Each member who has consulted a ChocAn provider during that week receives a report which contains:
 - a. Member name (25 characters)
 - b. Member number (9 digits)
 - c. Member street address (25 characters)
 - d. Member city (14 characters)
 - e. Member state (2 letters)
 - f. Member zip code (5 digits)
 - g. For each service provided (sorted in order of service date), the following details are required:
 - i. Date of service (MM-DD-YYYY)

- ii. Provider name (25 characters)
- iii. Service name (20 characters)
- 8. A summary is sent to manager of accounts payable and lists:
 - a. Every provider paid that week
 - b. Number of consultations each had
 - c. Total fee for the week
 - d. Total number of providers who provided services
 - e. Total number of consultations
 - f. Overall fee total are printed

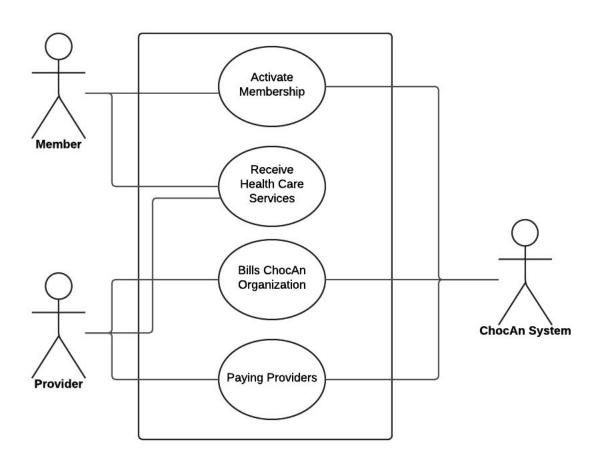


Fig: Use case diagram for Iteration 1

II. Iteration 2

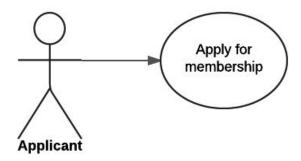


Fig 1: Apply for Membership use case for ChocAn Organization

Brief Description

When an applicant applies for a membership, the Apply for Membership use case enables a ChocAn organization staff member to determine whether the applicant qualify for a membership and if so, the staff member requests a monthly payment..

- 1. Applicants fills out an application form and submit it to the ChocAn organization.
- 2. ChocAn staff member verifies the applicant's information.
- 3. If the applicant gets approved, the staff member uses the Activate membership use case and asks the applicant to make a payment.

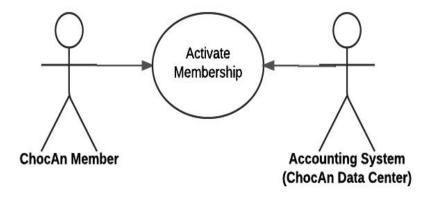


Fig 2: Activate Membership use case for ChocAn Organization

The Activate Membership use case enables an applicant to become an active member of the ChocAn by paying a monthly fee to the ChocAn organization.

- 1. Applicants pay a monthly fee to ChocAn organization.
- 2. The ChocAn staff member receives the payment and updates the applicant as an active member of ChocAn using the Accounting System.
- 3. Every member is given a membership card.
 - a. The membership card contains the member's name and 9 digit member number

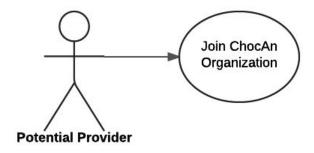


Fig 3: Join ChocAn Organization use case

Join ChocAn Organization use case enables a potential provider to become an active provider of the ChocAn organization.

- 1. Potential provider fills out an application form and submit all required information to the ChocAn organization.
- 2. ChocAn staff member verifies the potential provider's information.
- 3. If the provider gets approved to provide services to ChocAn members, a ChocAn operator uses Maintain Provider Records use case to record the new provider's information and issue him a provider number.

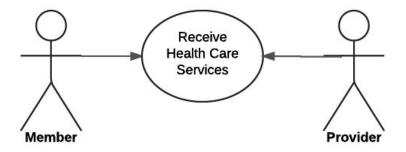


Fig 4: Receiving Health Care Services use case

Receiving Health Care Services use case enables member to receive health care services by using their membership card.

- 1. ChocAn provider provides health care services to each ChocAn member.
- 2. The member hands in their membership card to the provider.
- 3. The provider slides the card through the card reader on the terminal.
- 4. Terminal then dials the ChocAn Data Center.
- 5. ChocAn Data Center verifies if the member number is "Valid" or "Suspended."
 - a. If the member number is "Valid" the terminal displays "Validated."
 - b. If the member number is "Suspended" the terminal displays "Invalid Number" or "Member Suspended."
 - i. If "Member Suspended" then the terminal displays the fees owed by the ChocAn member

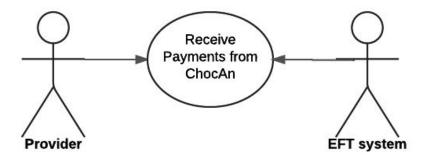


Fig 5: Receive Payments from ChocAn organization use case

Receive Payments from ChocAn organization use case enables provider to bill ChocAn and receive payments for the services he/she provided to the ChocAn members.

- 1. Each provider bills ChocAn after a health care service has been provided to the ChocAn member.
- 2. Provider passes the membership card through the card reader or keys in the member number.
 - a. If the member number is valid, the provider keys in the date the service was provided in the format MM-DD-YYYY
- 3. The provider then uses the provider directory to lookup the appropriate 6 digit service code corresponding to the services provided.
- 4. The provider keys in the service code
 - a. Then displays the name of the service corresponding to the code and then the provider verifies if it is correct.
 - b. If a nonexistent code is entered an error message is printed
- 5. The provider also can enter comments about the service provided
- 6. The software product now writes the record to disk with the fields:
 - a. Current data and time (MM-DD-YYYY HH:MM:SS)
 - b. Date service was provided (MM-DD-YYYY)
 - c. Provider number (9 digits)
 - d. Member number (9 digits)
 - e. Service code (6 digits)
 - f. Comments (100 characters) (optional)
- 7. The system then displays the amount to be paid to the provider for the service provided to the ChocAn member. The provider then fills out a provider's form that contains the displayed information.

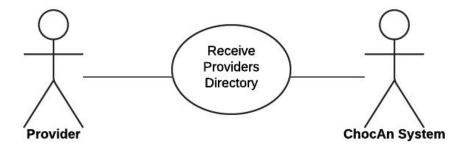


Fig 6: Request/Receive Provider Directory use case

Request/Receive Provider Directory use case enables the provider to request and receive the provider directory.

- 1. A provider can request the software product for a Provider Directory at any time.
 - a. Provider directory is an alphabetically ordered list of service names and corresponding service codes and fees.
 - i. Service name (20 characters)
 - ii. Service code (6 digits)
 - iii. Total fee for that week (up to \$99,999.99)
- 2. The provider directory is sent to the provider via email.

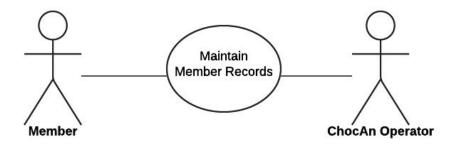


Fig 7: Maintaining Member Records use case

Maintaining Member Records use case enables a ChocAn operator to add, delete, and update member records.

- 1. The software at the ChocAn Data Center is run in interactive mode so that operators can:
 - a. Add members
 - b. Delete members
 - c. Update member information

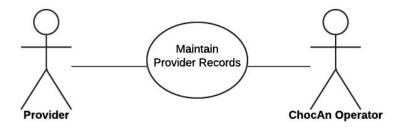


Fig 8: Maintaining Provider Records use case

Maintaining Provider Records use case enables ChocAn operator to add, delete, and update provider records.

- 1. The software at the ChocAn Data Center is run in interactive mode so that operators can:
 - a. Add providers
 - b. Delete providers
 - c. Update providers information

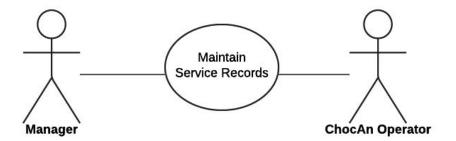


Fig 9: Maintaining Service Records use case

Maintaining Service Records use case enables ChocAn operator to add, delete, and update service records..

- 1. The software at the ChocAn Data Center is run in interactive mode so that operators can:
 - a. Add service records
 - b. Delete service records
 - c. Update service record information

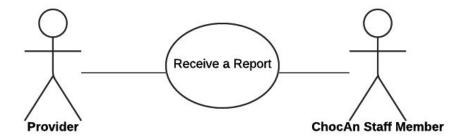


Fig 10: Receives a Report use case

Receives a Report use case enables provider to receive a report from a ChocAn staff member about the services he/she provided.

- 1. Each provider who has billed ChocAn during that week receives a report as an email attachment containing the list of services he or she provided to ChocAn members.
- 2. For verification, the report contains the same information as that entered on the provider's form, in order that the data were received by the computer.
- 3. At the end of the report there is a summary which includes information about:
 - a. Provider name (25 characters)
 - b. Provider number (9 digits)
 - c. Provider street address (25 characters)
 - d. Provider city (14 characters)
 - e. Provider state (2 letters)
 - f. Provider ZIP code (5 digits)
 - g. For each service provided, the following details are required:
 - i. Date of service (MM-DD-YYYY)
 - ii. Date and time data were received by the computer (MM-DD-YYYY HH:MM:SS)
 - iii. Member name (25 characters)
 - iv. Member number (9 digits)
 - v. Service code (6 digits)
 - vi. Fee to be paid (up to \$99.999.99)
 - h. Total number of consultations with members (3 digits)
 - i. Total fee for week (up to \$99,999.99)

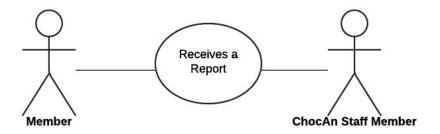


Fig 11: Receives a Report use case

Receives a Report use case enables member to receive a report from ChocAn organization as a record of their visit to a ChocAn provider.

- 1. Each member who has consulted a ChocAn provider during that week receives a report which contains:
 - a. Member name (25 characters)
 - b. Member number (9 digits)
 - c. Member street address (25 characters)
 - d. Member city (14 characters)
 - e. Member state (2 letters)
 - f. Member zip code (5 digits)
 - g. For each service provided (sorted in order of service date), the following details are required:
 - i. Date of service (MM-DD-YYYY)
 - ii. Provider name (25 characters)
 - iii. Service name (20 characters)

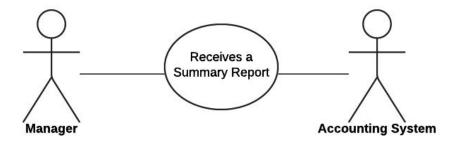


Fig 12: Receives Summary Report use case

Receives Summary Report use case enables ChocAn manager to receive a summary report from the accounting system.

- 1. Each week Friday at midnight the accounting procedure is run at the ChocAn Data Center, and a ChocAn manager can request an individual report from the ChocAn Data Center.
- 2. The report is generated automatically from the accounting system and sent to the ChocAn manager every week.
- 3. A summary report contains the information about:
 - a. Every provider paid that week
 - b. Number of consultations each had
 - c. Total fee for the week
 - d. Total number of providers who provided services
 - e. Total number of consultations
 - f. Overall total fee are printed

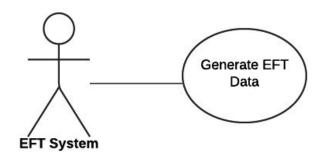


Fig 13: Generate EFT Data use case

The EFT or electronic funds transfer writes data to disk and then banking computers ensure the provider is paid.

Step-by-Step Description

- 1. A record consisting of electronic funds transfer (EFT) data is written to disk.
 - a. Banking computers will ensure each provider receives the appropriate amount for the services provided.

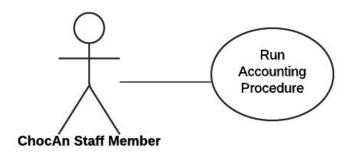


Fig 14: Run Accounting Procedure use case

Brief Description

Run Accounting Procedure use case enables the accounting procedure to run at the ChocAn Data Center.

- 1. At midnight on Friday every week the main accounting procedure is run at the ChocAn Data Center.
 - a. It reads the week's file of services provided and prints a number of reports.

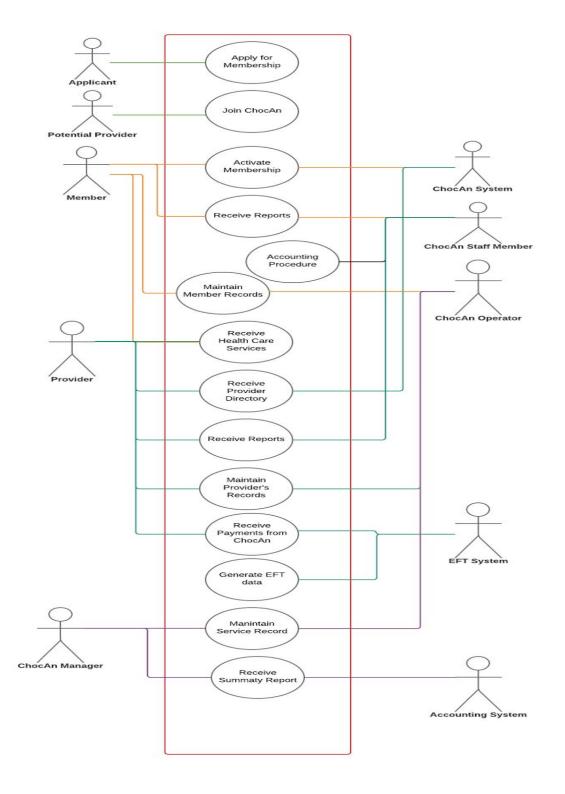


Fig: Use case diagram for Iteration 2