**Chocoholics Anonymous Proposed Requirements Specification**

Initial Review Document for:

CSC440 Leader: Nicholas Schweitzer

Created by undergraduate Students:

Bryant M Graff

Zachary T. Brunette

Benjamin c. Haos

Delivered:

10/12/16 (6pm)

**Requirements Response Contract as Received**

“Your organization has been awarded a contract to write only the ChocAn data processing software; another organization will be responsible for the communications software, for designing the ChocAn provider’s terminal, for the software needed by Acme Accounting Services, and for implementing the EFT component. The contract states that, at the acceptance test, the data from a provider’s terminal must be simulated by keyboard input and data to be transmitted to a provider’s terminal display must appear on the screen. A manager’s terminal must be simulated by the same keyboard and screen. Each member report must be written to its own file; the name of the file should begin with the member name, followed by the date of the report. The provider reports should be handled the same way. The Provider Directory must also be created as a file. None of the files should actually be sent as e-mail attachments. As for the EFT data, all that is required is that a file be set up containing the provider name, provider number, and the amount to be transferred.”

**Responsibilities per Contract**

Write only the ChocAn data processing software and pass Acceptance Criteria.

**Acceptance Criteria**

An acceptance test must be passed.

**Acceptance Test**

* A provider’s terminal will be simulated and include keyboard input and subsequent output must also be displayed on a screen.
* A manager’s terminal must be simulated as well and this terminal must be limited to one screen and keyboard.
* A member report must be generated as a single file per specifications described in full below.
* The provider report will share the same specifications as the member report.
* Electronic Funds Transaction data will be stored in a file as specified below.
* The files created will not be sent as emails.

**File Specifications**

**Member/Provider Report File - Shared Specifications**

* A single file for each member/provider.
* File name as such:
  + <name><date>

**Weekly Member Report File Specifications**

* Member name (25 characters)
* Member number (9 digits)
* Member street address (25 characters)
* Member city (14 characters)
* Member state (2 letters)
* Member ZIP code (5 digits)
* For each service provided, the following details are required:
  + Date of service (MM–DD–YYYY)
  + Provider name (25 characters)
  + Service name (20 characters)
  + Sorted in order of service date.
    - Ascending/Descending?
* Report is created once weekly on Friday at midnight by data center.

**Weekly Provider Report File Specifications**

* Provider name (25 characters)
* Provider number (9 digits)
* Provider street address (25 characters)
* Provider city (14 characters)
* Provider state (2 letters)
* Provider ZIP code (5 digits)
* Total number of consultations with members (3 digits)
* Total fee for week (up to $99,999.99)
* For each service provided, the following details are required:
  + Date of service (MM–DD–YYYY)
  + Date and time data were received by the computer (MM–DD–YYYY HH:MM:SS)
  + Member name (25 characters)
  + Member number (9 digits)
  + Service code (6 digits)
  + Fee to be paid (up to $999.99)

**Service Provided File Specifications**

* Current date and time (MM–DD–YYYY HH:MM:SS)
* Date service was provided (MM–DD–YYYY)
* Provider number (9 digits)
* Member number (9 digits)
* Service code (6 digits)
* Comments (100 characters) (optional)
* Each Provider Report File must be in its own file/directory.
  + Tentative naming specification for file/directory:
    - <name>

**Always Available Provider Data Specifications**

* List of appropriate six-digit service code, service type, and corresponding service.
  + Service Types: We could use this data defined more completely…
    - Dietitians
      * Ex. 598470 = Dietitian Session
    - Internists
    - Exercise Experts
      * Ex. 883948 = Aerobics Exercise Session

**Electronic Funds Transfer File Specifications**

* A file(s) will be created with these specifications:
  + provider name
  + provider number
  + amount to be transferred

**Explanation of Document**

This document details a general overview of a software product to be delivered to Chocoholic Anonymous Organization by The Software Engineering Group. Due to the nature of the product, and the multiple contractors utilized to produce the software, some areas of the software and user interactions are described but will not be implemented by The Software Engineering Group who have created this document. This is a preliminary document created to detail an understanding between the Chocoholic Anonymous Organization and The Software Engineering Group. It expected that revision will occur and Chocoholic Anonymous Organization is encouraged to take part in effecting those revisions.

You will find first, the contract as delivered to The Software Engineering Group. For reasons of brevity, the full text of the product’s description has been omitted but can be expected in the final version of this document.

Next you find …

Following …

Finally …

**Assumptions**

It is assumed that Acme Accounting Services will provide file(s) needed to verify a user existing and last payment received date.

It is assumed that Acme Accounting Services will manage accepting payments from new members as well as current members.

It is assumed that communication time-outs will be handled by the contractor tasked with creating the communication software.

It is assumed that the data processing portion of the software will only record provider fee to be paid and not be in any way responsible for producing data relevant to money owed to provider.

**Actors**

*An actor is a frequent user of the software product, an initiator of the software’s use case(s), and/or critical player in use case(s).*

Chocoholic Anonymous Data Processing Center Employee (ChocAnEmp)

**Use Case 1**

As Chocoholic Anonymous Data Processing Center Employee (ChocAnEmp) I want to be able to enter a user id for verification purposes.

**Story:** User is verifying a member id.

**Workflow**

1. Begin provider communication terminal prompt shown.
2. User enters nine-digit member id.
3. Display member status associated with id as valid or invalid.

**Alternate Workflows**

**Input Verifications Workflows (1.x)**

**Alternate Workflow 1.1**

1. Entry does not contain nine characters.
2. Display invalid input message sent to provider terminal.
3. Return to receive provider communication prompt. (line 1)

**Alternate Workflow 1.2**

1. Entry does not contain nine numbers.
2. Display invalid input message sent to provider terminal.
3. Return to receive provider communication prompt. (line 1)

**Use Case 2**

As Chocoholic Anonymous Data Processing Center Employee (ChocAnEmp) I want to be able to enter a user id and provided services.

**Story :** User is recording a service provided after previously verifying valid member.

**Workflow**

1. Begin provider communication terminal prompt shown.
2. User enters nine-digit member id.
3. Display member status associated with id as valid.
4. User signals to enter service provided record.
5. Prompt for date service provided.
6. Enter date MM-DD-YYYY.
7. Prompt for service code.
8. Enter six-digit service code.
9. Display service associated with code.
10. Prompt for optional comment on service.
11. Enter comment.
12. Prompt for verification.
13. Enter positive verification.
14. Write data to file.

**Alternate Workflows**

**Input Verifications Workflows (1.x)**

**Alternate Workflow 1.1**

2. Entry does not contain nine characters.

3. Display invalid input message sent to provider terminal.

4. Return to receive provider communication prompt. (line 1)

**Alternate Workflow 1.2**

2. Entry does not contain nine numbers.

3. Display invalid input message sent to provider terminal.

4. Return to receive provider communication prompt. (line 1)

**Alternate Workflow 1.x**

6, 8, 11, 13. (Correct format and size of input is verified in similar fashion for all data receiving lines.)

**Communication Path Workflows (2.x)**

**Alternate Workflows 2.1**

3. User does not signal for further communication.

4. Return to receive provider communication prompt. (line 1)

**Alternate Workflows 2.x**

5, 7, 10, 12 (If no response is received, eventually prompt is returned to begin provider communication terminal prompt.)



**Use Case 3**

As a Health Care Provider I want to be able to login.

Workflow

1. The Health Care Provider enters his/her provider number
2. The provider number is verified

Alternate Workflow

2. The provider number is invalid.

3. Provider console prompts Health Care Provider to re-enter provider number

4. Return to step 1.

Acceptance Criteria

If successful, the provider console will unlock.

**Use Case 4**

As a Health Care Provider I want to be able to verify a member.

Workflow

1. Health Care Provider scans member card using provider console.
2. System verifies member account, displaying “Validated” if the account is valid.

Alternate Workflow

1. Health Care Provider enters member number into provider console.

Alternate Workflow

1. System determines that member card is invalid.

Alternate Workflow

1. System determines the member account is suspended.

Acceptance Criteria

The member account associated with the member card is now active on the provider console.

**Use Case 5**

As a Health Care Provider I want to be able to charge for service.

Story

Account must be active on the provider console.

Workflow

1. Health Care Provider enters date into the console in the following format: MM-DD-YYYY.
2. System verifies date.
3. Provider enters service code corresponding to the service provided
4. Provider console displays name of service provided and prompts Health Care Provider for confirmation.
5. Health Care Provider confirms information by selecting “Yes”
6. System records changes to account

Alternate Workflow

1. Health Care Provider enters an invalid date. Retry step 1.

Alternate Workflows

1. Console displays “Invalid Service” Retry step 3.

Alternate Workflow

1. Health Care Provider selects “No” Retry step 3.

Acceptance Criteria

The date and service code must be valid.

**Use Case 6**

As a Health Care Provider I want to be able to get the provider directory.

Workflow

1. Health Care Provider sends an email to the Data Center.
2. Data Center sends list of providers.

Acceptance criteria

The Health Care Provider has a current Provider Directory.

**Use Case 7**

As a Health Care Provider I want to be able to get a report listing services rendered for the week.

Story

The Health Care Provider must have provided a valid email address. Ideally, the Health Care Provider states a desired day of the week on which to send the report. Alternatively, the Health Care Provider can send an email and request this report.

Workflow

1. The system send a report to the Health Care Provider listing services rendered for the past week.

Alternate Workflow

1. The system send a report to the Health Care Provider listing services rendered since the last report was sent.

Acceptance Criteria

The Health Care Provider has a list of the services rendered for the past week or services rendered since the last report.

**Use Case 8**

As a member, I would like to receive health care services.

Workflow

1. Member hands his/her card to the provider.

2. Provider slides card through the card reader in the terminal.

3. ChocAn data center verifies the member number.

4. Member number is Validated.

Exception Flows

4.a Member number is Invalid.

4.b Member is Suspended due to outstanding fees.

Acceptance Criteria

Member number is validated and can receive health care services.

**Use Case 9**

As a member I would like to receive a services provided report for each week.

Precondition: Member has received a services this week.

Basic Flow

1. At midnight on Friday, system sends member a list of services provided to the member.

2. Member pays ChocAn; payment processed by Acme Accounting Services.

Alternate Flows

2.a. Member does not pay ChocAn.

2.a.1 member status is set to Suspended.

Acceptance Criteria

Member has paid membership fee.