CS-555 Agile Methods for Software Development Project 3

Group #5:

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1. Acceptance tests:

Title: Read GEDCOM file		
Priority: 2 Story Points: 1		Story Points: 1
As a user I want this system can read in a GEDCOM file		

Test: Prepare a sample GEDCOM file.

So that data can be used more easily later.

So that I don't have to type in all data by my own.

Title: Create a class to store GEDCOM data		
Priority: 1 Story Points: 2		
As a user I want this system to have a data structure, probably a class to store all the GEDCOM data		

Test: N/A

Title: Choose data type to store the data		
Priority: 3 Story Points: 1		
As a user I want to choose to use which data type (vector, ArrayList or Linked List)		

to store our data So that we can use the data more easily later.

Test: N/A

Title: Check the age for the individuals		
	Priority: 3	Story Points: 1
As a user	<u>.</u>	•

I want this system to check the ages for each individuals by using BIRT and DEAT

To confirm the data is logically correct.

Test: create several individuals who have the wrong birthday and death time information.

- 0 @ I0 @ INDI
- 1 NAME John /Doe/
- 1 SEX M
- 1 BIRT
- 2 DATE 1 JAN 2001
- 1 DEAT
- 2 DATE 3 MAR 1990
- 1 FAMC @F1@
- 0 NOTE This is an individual whose death date is before the his birthday
- 0 @I1@ INDI
- 1 NAME Mary /Smith/
- 1 SEX F
- 1 BIRT
- 2 DATE 2 FEB 1980
- 1 DEAT
- 2 DATE 4 JAN 1980
- 1 FAMC @F2@
- 0 NOTE This is an individual whose death date is before the his birthday

Title: Check the sex of husband and wife in each family		
	Priority: 3	Story Points: 1

As a user

I want this system to check the sex of each husband and wife in each family

So that the wife is female and husband is male.

Test: Prepare some families with wrong SEX info for wives and husbands.

- 0 @I3@ INDI
- 1 NAME John /Smith/
- 1 SEX F
- 1 BIRT
- 2 DATE 2 FEB 1980
- 1 FAMC @F2@
- 0 @I4@ INDI
- 1 NAME Jennifer /Lawrence/
- 1 SEX M
- 1 BIRT
- 2 DATE 2 FEB 1992
- 1 FAMC @F2@
- 0 @F3@ FAM
- 1 HUSB @ I3@
- 1 WIFE @ I4@
- 1 CHIL @I5@
- 1 MARR
- 2 DATE 4 APR 1945
- 0 NOTE This is a family with wrong information about SEX tag of husbands and

wives.

Title: Check if husband and wife are alive at the same time

Priority: 3 Story Points: 1

As a user

I want this system to check if husband and wife are alive at the same time So that the husband's BIRT is after the wife's DEAT, or vice versa.

Test: Prepare a family in which husband and wife do not live at the same time.

- 0 @I12@ INDI
- 1 NAME John /Smith/
- 1 SEX M
- 1 BIRT
- 2 DATE 2 FEB 1980
- 1 DEAT
- 2 DATE 3 FEB 2004
- 1 FAMC @F5@
- 0 @I13@ INDI
- 1 NAME Jennifer /Aniston/
- 1 SEX F
- 1 BIRT
- 2 DATE 2 FEB 2005
- 1 FAMC @F5@
- 0 @F5@ FAM
- 1 HUSB @I12@
- 1 WIFE @I13@
- 1 MARR
- 2 DATE 4 APR 1990
- 0 NOTE This is a family in which husband and wife do not live at the same time.

Check Parents of Each Family			
Acceptance Test: T07 Priority: 2 Story Points: 2			
	As a user, I want to check the number of husband and wife of each family So that there is only one husband and one wife in each family.		

Test:

0 @I2@ INDI

- 1 NAME Frank /Zhu/
- 1 SEX M
- 1 BIRT
- 2 DATE 1 JAN 1960
- 1 FAMS @F2@
- 0 @I4@ INDI

- 1 NAME Jack /Qian/
- 1 SEX M
- 1 BIRT
- 2 DATE 13 Aug 1989
- 1 FAMS @F2@
- 0 @I5@ INDI
- 1 NAME Ruth /Cheng/
- 1 SEX F
- 1 BIRT
- 2 DATE 1 Jan 1990
- 1 FAMS @F2@
- 0 @F2@ FAM
- 1 HUSB @ I4@
- 1 WIFE @ I5@
- 1 WIFE @ I2@
- 1 MARR
- 2 DATE 3 MAR 1955
- 0 NOTE This is a family which has two wives.

Check Children's FAMC tags		
Acceptance Test: T08 Priority: 2 Story Points: 2		
As a user, I want this system to check the FAMC of each child		

I want this system to check the FAMC of each child

So that we can make sure that one child only belongs to only one family.

Tests:

- 0 @ I8@ INDI
- 1 NAME Kathy /Qian/
- 1 SEX F
- 1 BIRT
- 2 DATE 12 MAY 1963
- 1 FAMC @F3@
- 1 FAMC @F4@
- 0 @F3@ FAM
- 1 HUSB @ I6@
- 1 WIFE @I7@
- 1 CHIL @18@
- 1 MARR
- 2 DATE 3 APR 1960
- 0 @F4@ FAM1 HUSB @I9@
- 1 WIFE @I10@
- 1 CHIL @18@
- 1 MARR
- 2 DATE 20 JUN 1961
- 0 NOTE This child belongs to two family.

	GEDCOM File Analysis		
Acceptance Test: T02	Priority: 2	Story Points: 1	

As a user,

I want this system to analyze the GEDCOM file

So that people can get some useful results from the analysis.

Test: N/A

Check Tags Existence			
Acceptance Test: T06 Priority: 2 Story Points: 2			
As a user, I want this system to ch So that we can have acc	I want this system to check if all the tags exist		

Test:

0 @I11@ INDI

1 NAME Cindy /Wu/

1 SEX F

1 BIRT

2 DATE 25 MAY 1970

1 FAMC @F3@

1 MAC

0 NOTE This Tags(MAC) is not existed.

Check Marriage Date		
Acceptance Test: T05	Priority: 2	Story Points: 3

As a user,

I want this system to check if the divorce date and marriage date are correct

So that one husband companied with only one wife.

Test:

0 @I12@ INDI

1 NAME Brand /Peter/

1 SEX M

1 BIRT

2 DATE 20 SEP 1980

1 FAMC @F5@

1 FAMS @F6@

1 FAMS @F7@

0 @I13@ INDI

1 NAME Annie /Peter/

1 SEX F

1 BIRT

2 DATE 15 AUG 1982

1 FAMC @F4@

1 FAMS @F6@

0 @F6@ FAM

1 HUSB @I12@

1 WIFE @I13@

1 MARR

2 DATE 17 ORC 2005

1 DIV

2 DATE 19 JUL 2010

0 @F7@ FAM

1 HUSB @I12@

1 WIFE @I11@

1 MARR

2 DATE 5 Orc 2009

0 NOTE The newer marriage date is before the divorce date.

Check Surname Format		
Acceptance Test: T13 Priority: 2 Story Points: 1		
As a user, I want this system to che So that we can get the so	eck if surname is enclose urnames correctly.	d by "/"s

Test:

0 @I14@ INDI

1 NAME Lily /Wang/

1 SEX F

1 BIRT

2 DATE 14 MAY 1970

1 FAMC @F5@

0 NOTE The surname is not enclosed by "/"s

	Check MARR Date	
Acceptance Test: T14	Priority: 2	Story Points: 1

As a user,

I want this system to check the marriage event date of every couple So that every marriage date is later than the husband's and wife's birth-days.

Test:

0 @I15@ INDI

1 NAME Woody /Liu/

1 SEX F

1 BIRT

2 DATE 13 Feb 1960

- 1 FAMC @F7@
- 1 FAMS @F9@
- 0 @I16@ INDI
- 1 NAME Mary /Zhu/
- 1 SEX F
- 1 BIRT
- 2 DATE 9 Nov 1962
- 1 FAMC @F8@
- 1 FAMS @F9@
- 0 @F9@ FAM
- 1 HUSB @I15@
- 1 WIFE @I16@
- 1 MARR
- 2 DATE 28 SEP 1959
- 0 NOTE The date is before husband's and wife's birthdays.

Check DIV Date		
Acceptance Test: T15	Priority: 2	Story Points: 1
As a user, I want this system to check divorce event date So that we can make sure it is later than is couple's marriage date.		

Test:

- 0 @I17@ INDI
- 1 NAME Xiyi /Bian/
- 1 SEX M
- 1 BIRT
- 2 DATE 24 DEC 1940
- 1 FAMC @F10@
- 1 FAMS @F12@
- 0 @I18@ INDI
- 1 NAME Liu /Fan/
- 1 SEX F
- 1 BIRT
- 2 DATE 10 NOV 1942
- 1 FAMC @F11@
- 1 FAMS @F12@
- 0 @F12@ FAM
- 1 HUSB @I17@
- 1 WIFE @I18@
- 1 MARR
- 2 DATE 30 MAR 1962
- 1 DIV
- 2 DATE 26 Jan 1958
- 0 NOTE The divorce date is before the marriage date

Check Children's Birthday

Acceptance Test: T16 | Priority: 2 | Story Points: 1

As a user,

I want this system to check every child's birthday.

So that it's before his/her parents' birthdays.

Test:

0 @I19@ INDI

1 NAME Peter /Fu/

1 SEX M

1 BIRT

2 DATE 9 APR 1949

1 FAMC @F13@

1 FAMS @F15@

0 @I20@ INDI

1 NAME Penny /Pian/

1 SEX F

1 BIRT

2 DATE 14 MAY 1950

1 FAMC @F14@

1 FAMS @F15@

0 @I21@ INDI

1 NAME Sam /Fu/

1 SEX M

1 BIRT

2 DATE 18 JUN 1948

1 FAMC @F15@

0 @F15@ FAM

1 HUSB @I19@

1 WIFE @ I20@

1 CHIL @ I21@

1 MARR

2 DATE 31 MAR 1972

0 NOTE This child is earlier than parents' birthday

Test:

0 @I22@ INDI

1 NAME Tim /Brown/

1 SEX M

1 BIRT

2 DATE 15 JUN 1954

1 FAMC @F16@

1 FAMS @F18@

Check Surnames in Each Family		
Acceptance Test: T17	Priority: 2	Story Points: 2

As a user,

I want this system to check surnames of every member in each family So that we can make sure all the members except the women who are married have the same surname.

Test:

0 @I23@ INDI

1 NAME Lucy /Luke/

1 SEX F

1 BIRT

2 DATE 20 JUL 1955

1 FAMC @F17@

1 FAMS @F18@

0 @F18@ FAM

1 HUSB @I22@

1 WIFE @ I23@

1 MARR

2 DATE 14 MAR 1975

0 NOTE Wife and Husband are not the same surname

Check FAMS		
Acceptance Test: T18	Priority: 3	Story Points: 1

As a user,

I want this system to check the tag FAMS

So that we can make sure every person who get married is in a certain family.

Test:

0 @I24@ INDI

1 NAME Invy /Wang/

1 SEX F

1 BIRT

2 DATE 20 JUL 1970

1 FAMC @F19@

1 FAMS @F20@

0 NOTE The person has a FAMS but doesn't get married.

So that children are younger than their parents.

Check CHIL and HUSB tags		
Acceptance Test: T19	Priority: 2	Story Points: 1
As a user, I want this system to check the birthdays of children and their parents		

Test:

- 0 @I54@ INDI
- 1 NAME Jason /Smith/
- 1 SEX M
- 1 BIRT
- 2 DATE 12 DEC 1990
- 1 FAMC @F21@
- 0 NOTE Son of family F21
- 0 @I55@ INDI
- 1 NAME Will /Smith/
- 1 SEX M
- 1 BIRT
- 2 DATE 23 FEB 1991
- 1 FAMS @F21@
- 0 NOTE Father of this family F21
- 0 @F21@ FAM
- 1 HUSB @I25@
- 1 CHIL @ I24@
- 0 NOTE this family's child is older than his father

Check DEAT tags		
Acceptance Test: T20	Priority: 1	Story Points: 3
As a user,		

I want this system to make sure death time of people are later than other event time(BIRTs, DIVs or MARRs)

So that there is no logical mistake.

Tests:

- 0@125@
- 1 Name Jack /Lu/
- 1 SEX M
- 1 DEAT
- 2 DATE 3 MAR 1987
- 1 FAMS @F24@
- 0 @F24@
- 1 HUSB @I25@
- 1 WIFE @I26@
- 1 MARR
- 2 DATE 5 MAR 1988
- 0 NOTE marry date should before Jack's death

Check FAMC and FAMS		
Acceptance Test: T21	Priority: 2	Story Points: 3
As a user,		
I want this system to check FAMS and FAMS do not point to the same		
family		
So that the wife or husband is not also the child in this family.		

Test:

0 @I26@

1 NAME JERRY /ZHU/

1 SEX F

1 FAMS @F25@

1 FAMC @F25@

0 NOTE she cannot be a child and a wife in a family in the same time

Check HUSB WIFE tags		
Acceptance Test: T22	Priority: 2	Story Points: 3

As a user,

I want this system to make sure whenever there is a family, there would be individuals of HUSB, WIFE which point to this family So that family records and individual records match.

Test:

0 @F22@ FAM

1 HUSB @ I23@

1 WIFE @I24@

0 @I23@ INDI

1 FAMC @F23@

0@I24@

1 FAMC @F23@

0 NOTE family records and individual records not matched

Check DATE format		
Acceptance Test: T23	Priority: 3	Story Points: 2
As a user,		
I want the day DATE tag represents exist		
So that there would not be date like "2010-2-31"		

Test:

0@I27@

1 NAME LUIS /ANNA/

1 SEX F

1 BIRT

2 DATE 30 FEB 1965

0 NOTE there is no day 30 in Feb

Check Parents' and Children's Birthdays		
Acceptance Test: T24	Priority: 2	Story Points: 1

As a user,

I want the age gaps between parents and their children are not more than 100 years

So that there would not be any logical errors.

Test:

0@128@

1 NAME WOOD /SHERRY/

1 SEX F

1 BIRT

- 2 DATE 2 JUL 1787 1 FAMS @F26@
- 0 @I29@
- 1 NAME HARRY /WALT/
- 1 SEX M
- 1 BIRT 3 SEP 1887
- 1 FAMC @F26@
- $0\ \mathrm{NOTE}$ The age gap between mother and children can not be more than $100\ \mathrm{years}$