

SSW-555: Agile Methods for Software Development

Introduction To Course Project

GEDCOM Team Project Overview



- 2-4 people form a team to practice extreme programming and scrum methods
- Implement an anomaly detection program on GEDCOM data files
- GEDCOM
 - Genealogy (family history) data
 - Developed by the Church of Jesus Christ of Latter-day Saints
 - Line oriented, asci files
 - https://en.wikipedia.org/wiki/GEDCOM



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Timeline

- Week1: hand code GEDCOM data (individual)
- Week2: read/parse GEDCOM data (individual)
- Week3: Sprint Planning (team)
- Weeks 4-5 Sprint 1 (team)
- Weeks 6-7 Sprint 2 (team)
- Weeks 8-9 Sprint 3 (team)
- Weeks 10-11 Sprint 4 (team)





- ProjectOverview.pdf
 - Project overview
 - Intro to GEDCOM
 - Subset of GEDCOM tags
- ProjectExpectations.pdf
 - What's expected of each student and team
- TeamXXReport.xlsx
 - User stories
 - Project tracking
- HowToUseProjectReport.pdf
 - Detailed Instructions

GEDCOM File (1)



Two major entities: individuals and families

- Individual
 - Unique individual ID
 - Name
 - Sex/Gender
 - Birth date
 - Death date
 - Unique Family ID where the individual is a child
 - Unique Family ID where the individual is a spouse

Family

- Unique family ID
- Unique individual ID of husband
- Unique individual ID of wife
- Unique individual ID of each child in the family
- Marriage date
- Divorce date, if appropriate

GEDCOME File (2)



GEDCOM is a line-oriented text file format where each line has three parts separated by blank space:

- **1. level number** (0, 1, or 2)
- **2. tag** (a string of 3 or 4 characters)
- **3. arguments** (an optional character string)

<level_number> <tag> <arguments>

0 | 127 | INDI

1 NAME Mark /Ardis/

1 SEX M INDI: individual

1 BIRT FAMC: child of a family

2 DATE 7 APR 1949 NOTE: it is comment

1 FAMC F32

O NOTE end of individual Mark Ardis

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Project Expectation

- Working as teams with discipline and collaboration
 - Each member of the team should contribute
 - Team contribution recorded by GitHub
- Each member take 2 user stories each sprint.
 - Major refactoring/infrastructure development counts towards as 1 user story
- Each student receives 2 grades for sprints
 - Team grade 0-10
 - Individual grade 0-10
 - Final grade for sprint is the product





| Story ID | Story Name | Story Description |
|----------|----------------------------------|---|
| US01 | Dates before current date | Dates (birth, marriage, divorce, death) should not be after the current date |
| US02 | Birth before marriage | Birth should occur before marriage of an individual |
| US03 | Birth before death | Birth should occur before death of an individual |
| US04 | Marriage before divorce | Marriage should occur before divorce of spouses, and divorce can only occur after marriage |
| US05 | Marriage before death | Marriage should occur before death of either spouse |
| US06 | Divorce before death | Divorce can only occur before death of both spouses |
| US07 | Less then 150 years old | Death should be less than 150 years after birth for dead people, and current date should be less than 150 years after birth for all living people |
| US08 | Birth before marriage of parents | Children should be born after marriage of parents (and not more than 9 months after their divorce) |

Totally 40 Stories to choose from...