COMP3111 T-22 Activity 2 – Source Code

To view all the raw files:

https://github.com/Zhang-JK/COMP3111-T22/tree/master/doc

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People:

ZHANG Jiekai (jzhanger@connect.ust.hk), Assigned Task: #1 #4

CHENG Yiren (yrcheng.dylan@gmail.com), Assigned Task: #3 #6

LIANG Houdong (hliangam@connect.ust.hk), Assigned Task: #2 #5

GitHub Repo:

https://github.com/Zhang-JK/COMP3111-T22

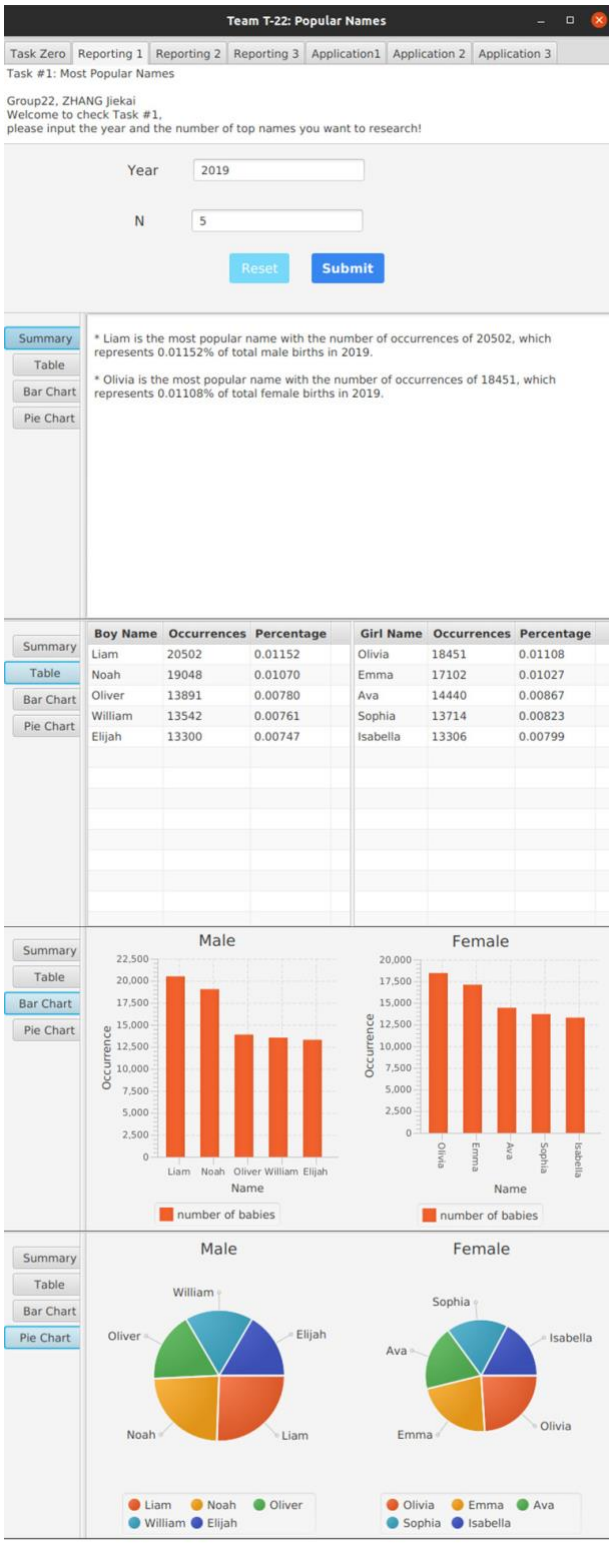
ZHANG Jiekai's branch: JK_dev

CHENG Yiren's branch: dylan_branch

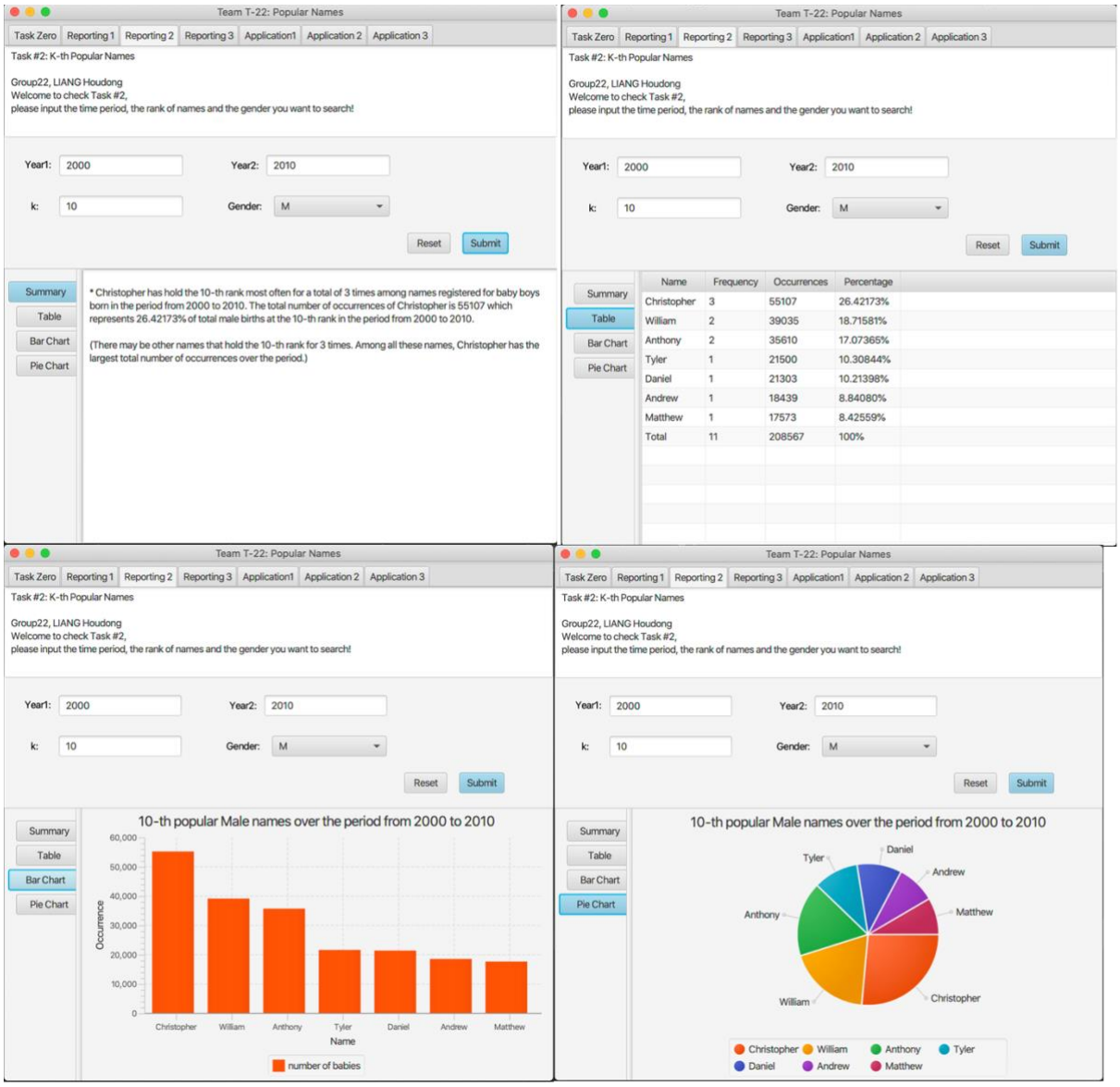
LIANG Houdong's branch: dong_

Screenshots of the execution of the application showing sample inputs and outputs (Data-Reporting Task)

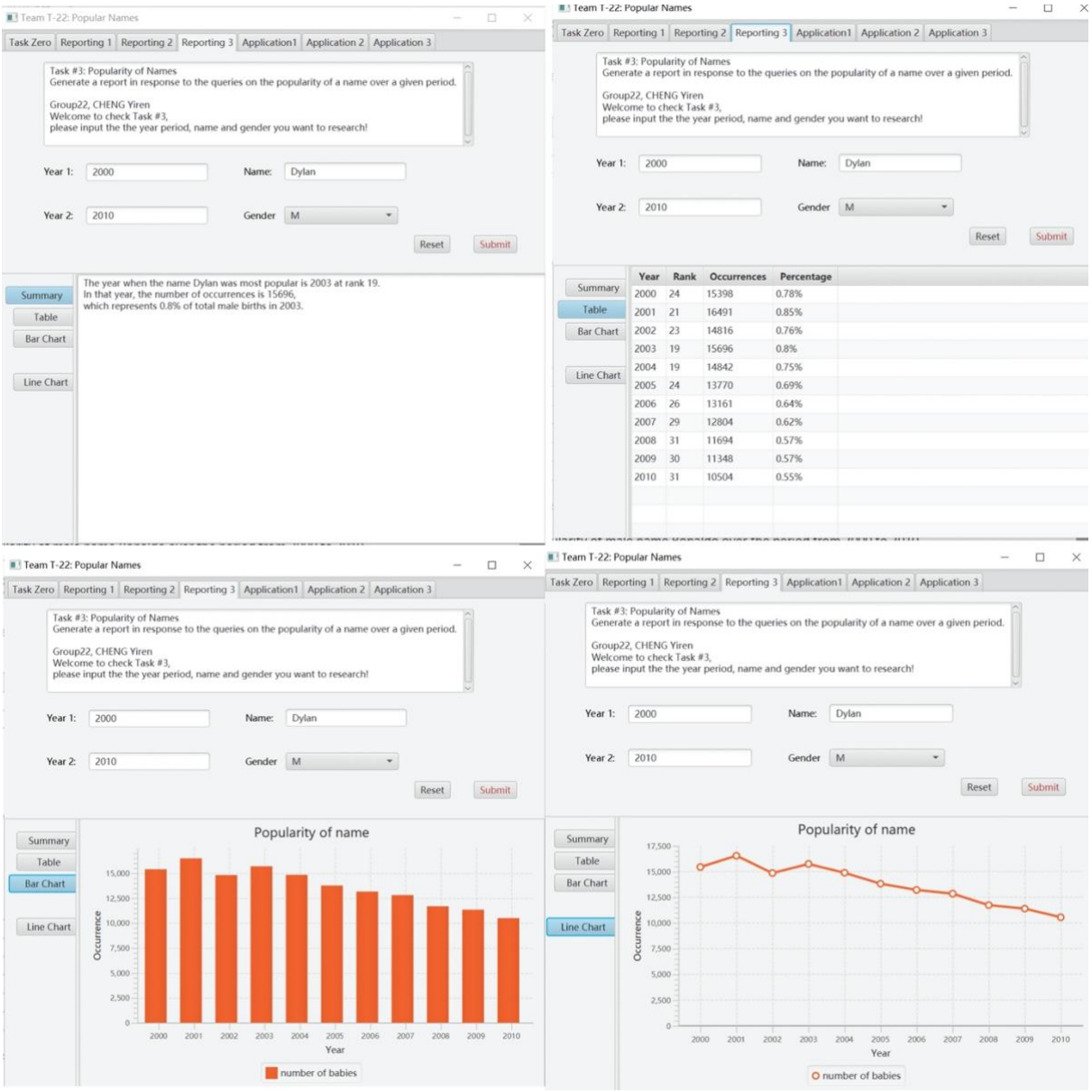
Task1:



Task2


Team T-22: Popular Names
Task Zero
Reporting 1
Reporting 2
Reporting 3
Application1
Application 2
Application 3
Task #2: K-th Popular Names
Group22, LIANG Houdong
Welcome to check Task #2,
please input the time period, the rank of names and the gender you want to search!
Year1: 2000
Year2: 2010
k: 10
Gender: M
Reset
Submit
Summary
Table
Bar Chart
Pie Chart
* Christopher has hold the 10-th rank most often for a total of 3 times among names registered for baby boys born in the period from 2000 to 2010. The total number of occurrences of Christopher is 55107 which represents 26.42173% of total male births at the 10-th rank in the period from 2000 to 2010.
(There may be other names that hold the 10-th rank for 3 times. Among all these names, Christopher has the largest total number of occurrences over the period.)
Name Frequency Occurrences Percentage
Christopher 3 55107 26.42173%
William 2 39035 18.71581%
Anthony 2 35610 17.07365%
Tyler 1 21500 10.30844%
Daniel 1 21303 10.21398%
Andrew 1 18439 8.84080%
Matthew 1 17573 8.42559%
Total 11 208567 100%
10-th popular Male names over the period from 2000 to 2010
Occurrence
Name
number of babies
Christopher
William
Anthony
Tyler
Daniel
Andrew
Matthew

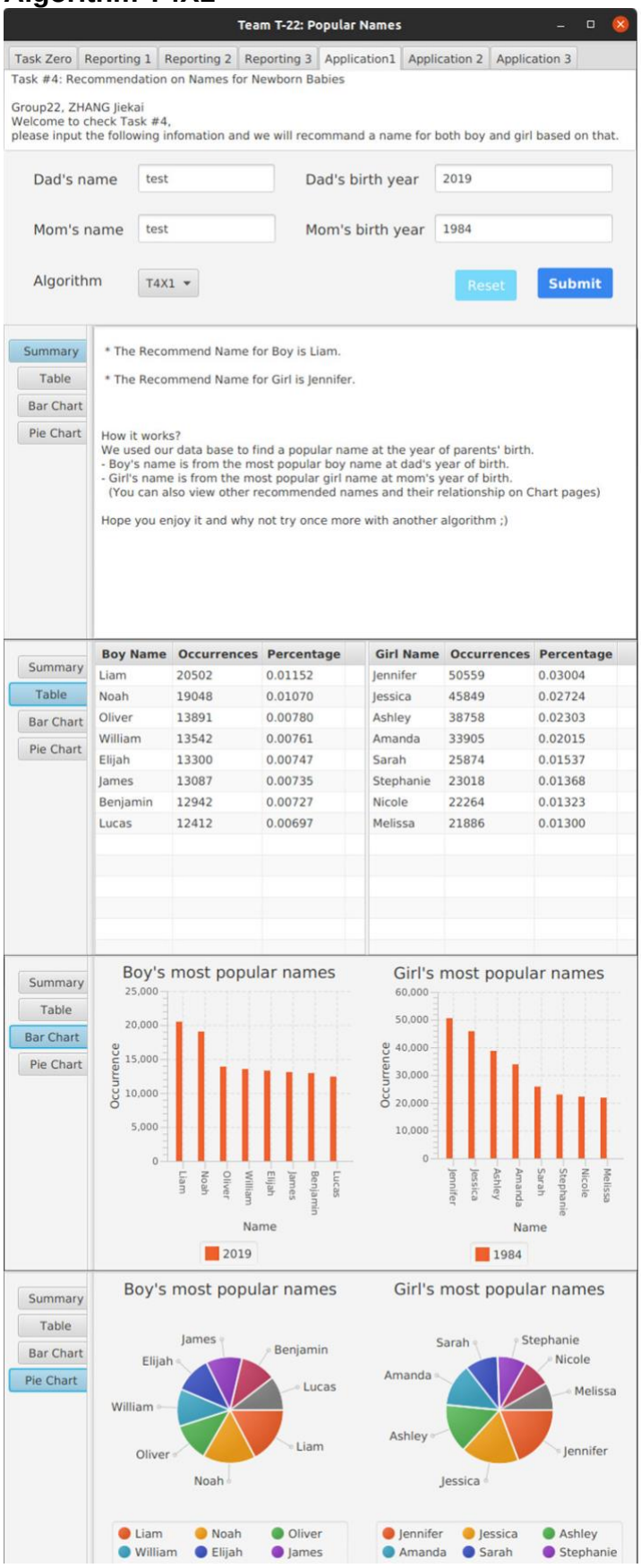
Task3



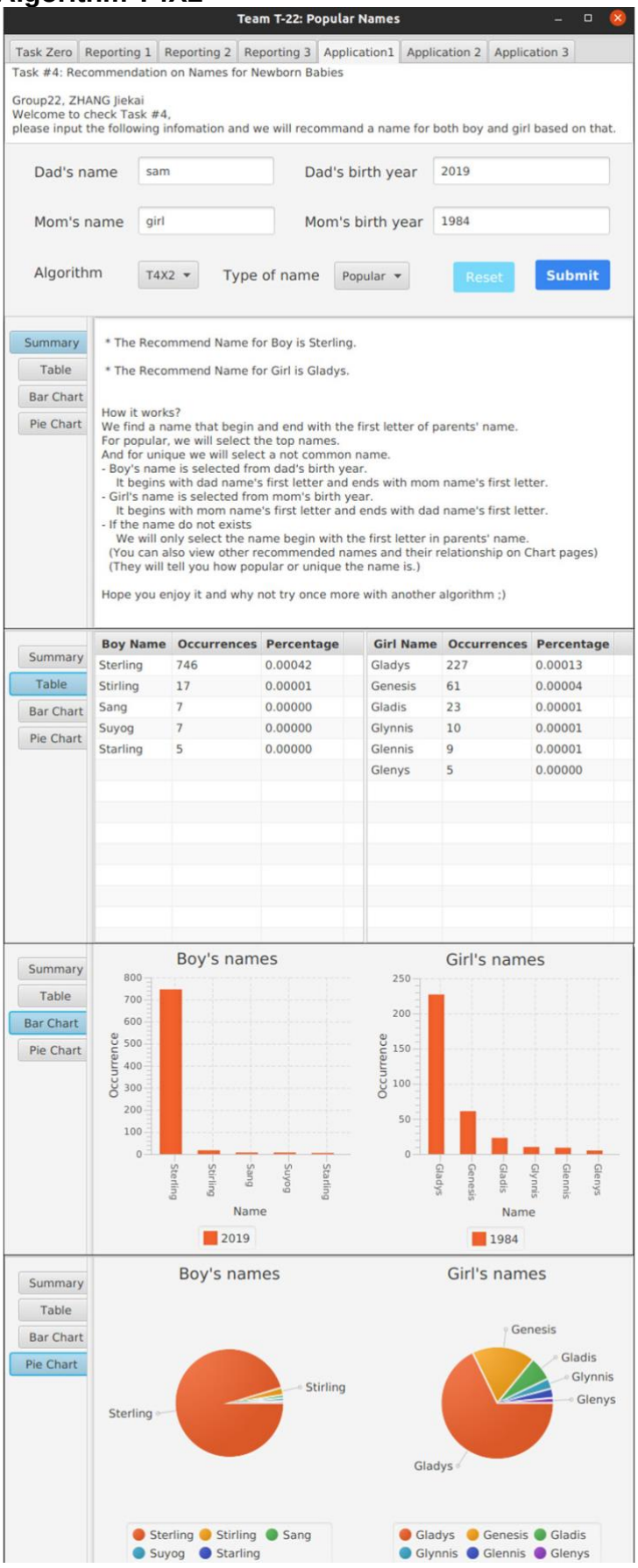
Screenshots of the execution of the application showing sample inputs and outputs (Evidence-Based Recommendation Task)

Task4

Algorithm T4X1

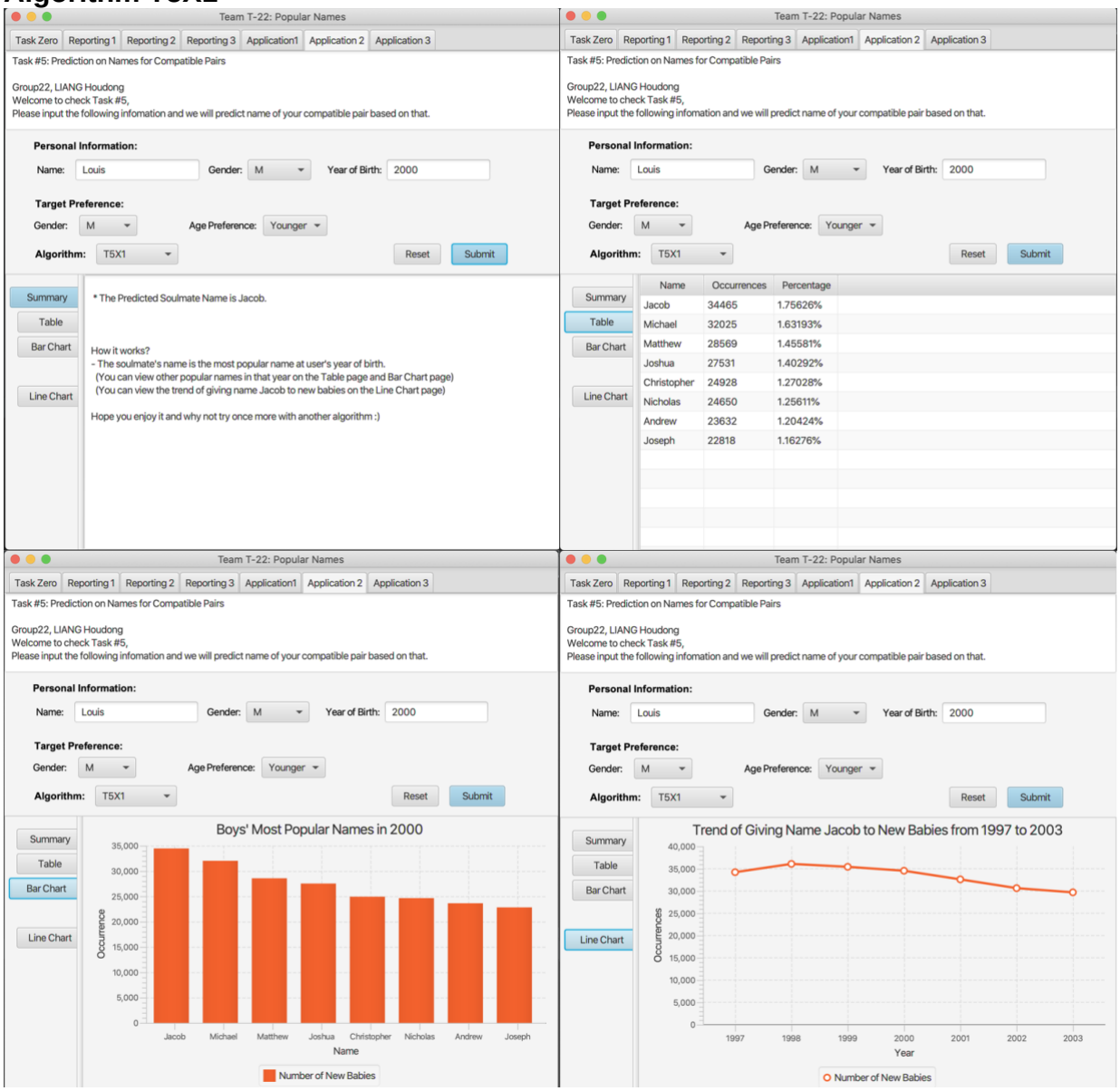


Algorithm T4X2

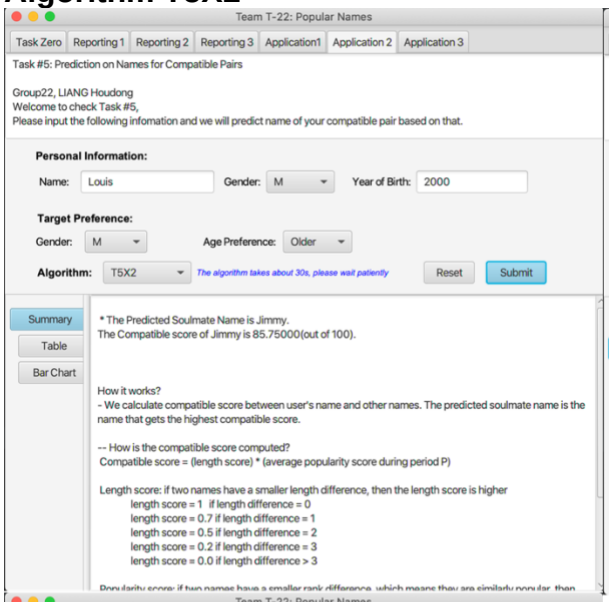


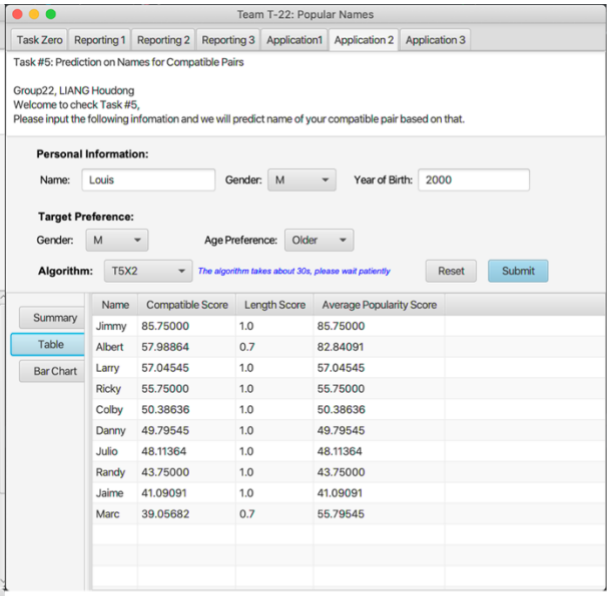
Task5

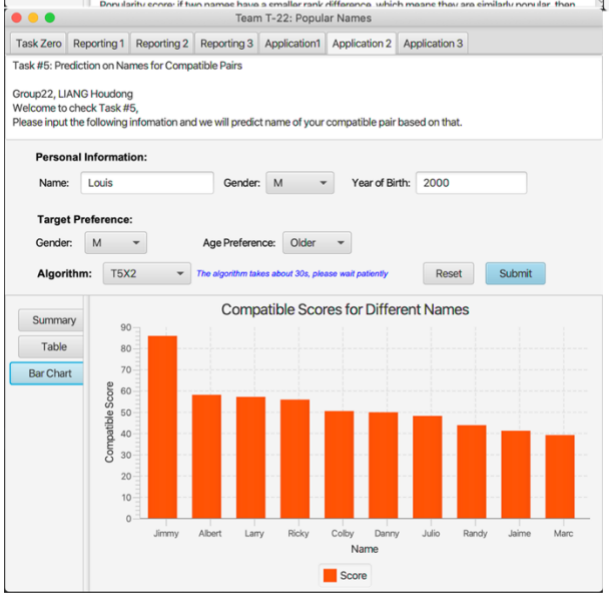
Algorithm T5X1



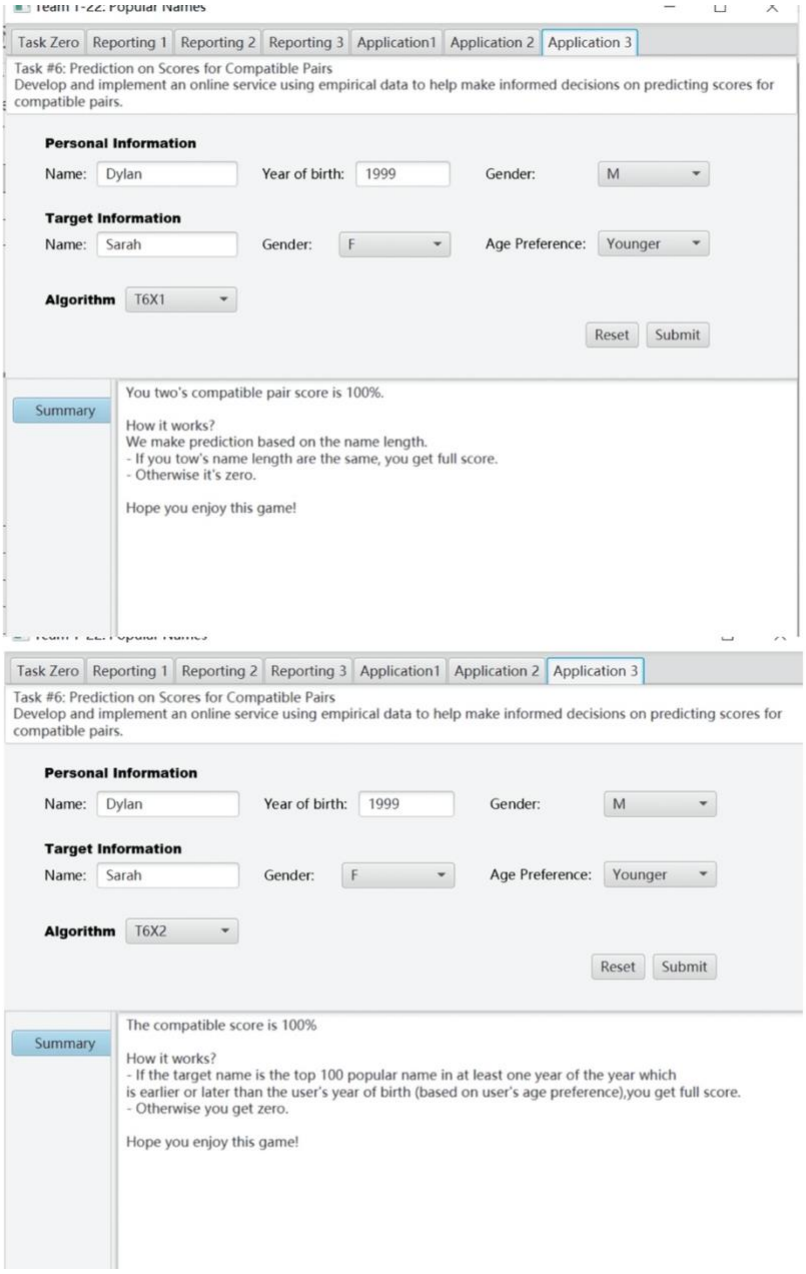
Algorithm T5X2







Task6
Algorithm T6X1 and T6X2



Report on the unit testing for the implemented tasks

Package comp3111.popnames

all > comp3111.popnames

36	0	0	2m18.02s
tests	failures	ignored	duration

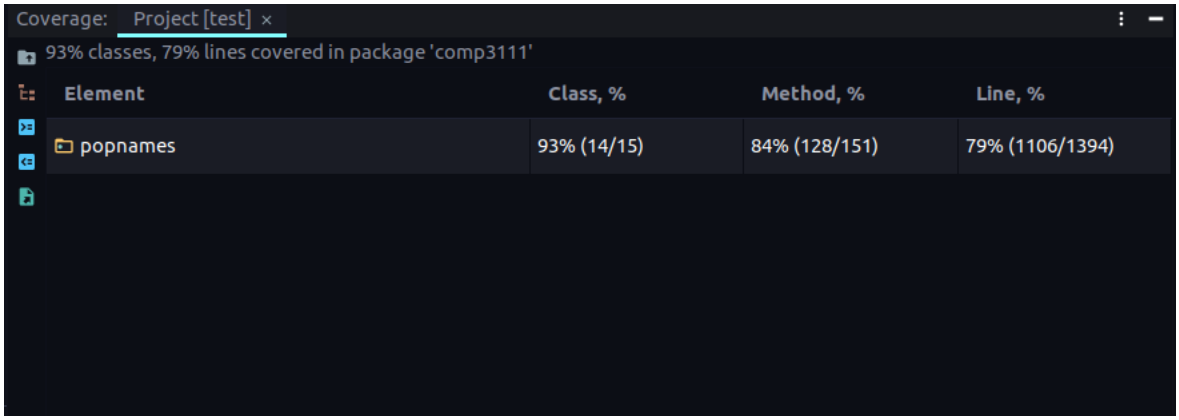
100% successful

Classes

Class	Tests	Failures	Ignored	Duration	Success rate
AnalyzeNamesTest	5	0	0	0.067s	100%
FileReaderTest	16	0	0	0.238s	100%
JavaFXTest	2	0	0	1.303s	100%
Task1andTask4Test	5	0	0	18.696s	100%
Task2andTask5Test	4	0	0	1m43.90s	100%
Task3AndTask6Test	4	0	0	13.819s	100%

HTML File: https://github.com/Zhang-JK/COMP3111-T22/tree/master/doc/reports/tests/test

Report on the coverage test



HTML File: https://github.com/Zhang-JK/COMP3111-T22/tree/master/doc/jacocoHTML

Documentation on the implemented tasks using JavaDoc

HTML File: https://github.com/Zhang-JK/COMP3111-T22/tree/master/doc/javadoc