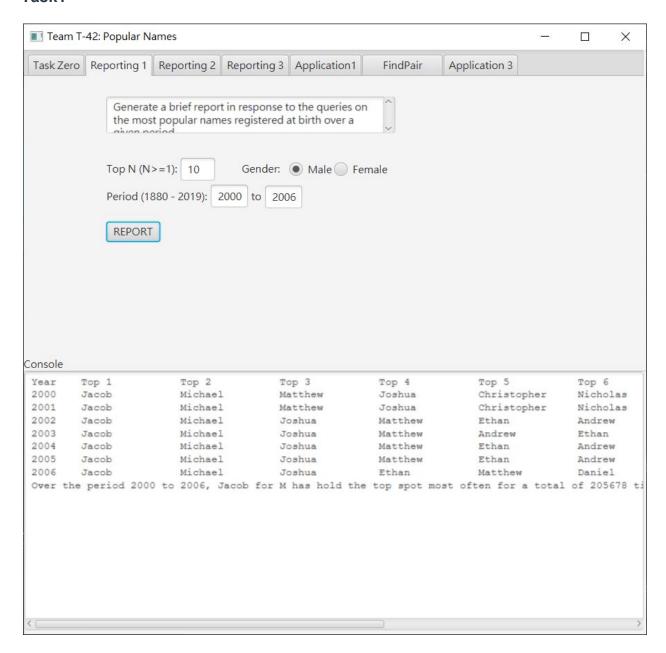
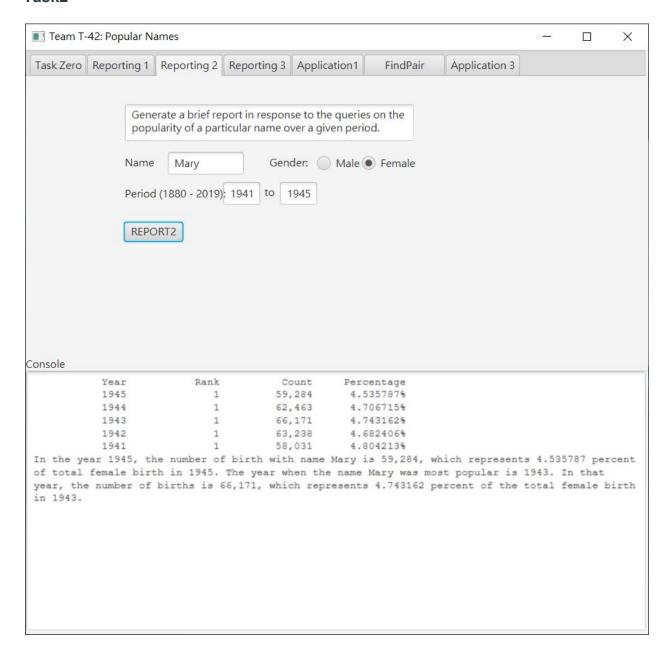
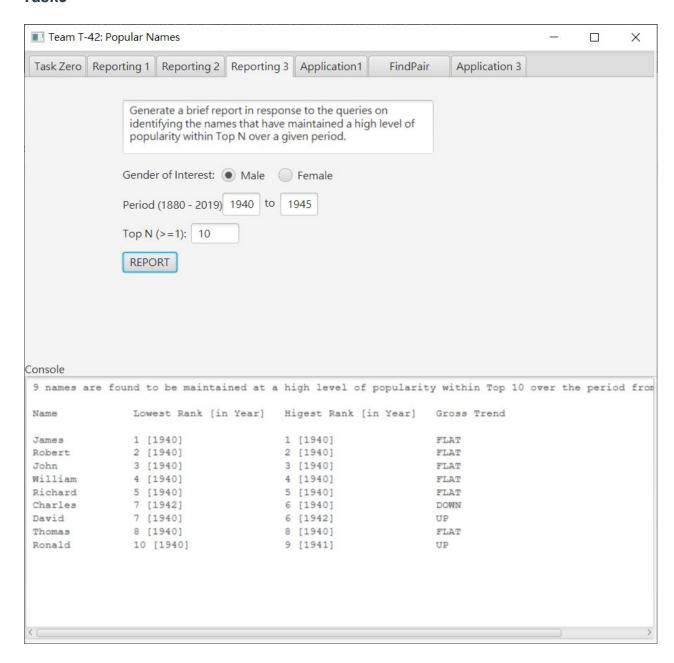
COMP 3111: Introduction to Software Engineering

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

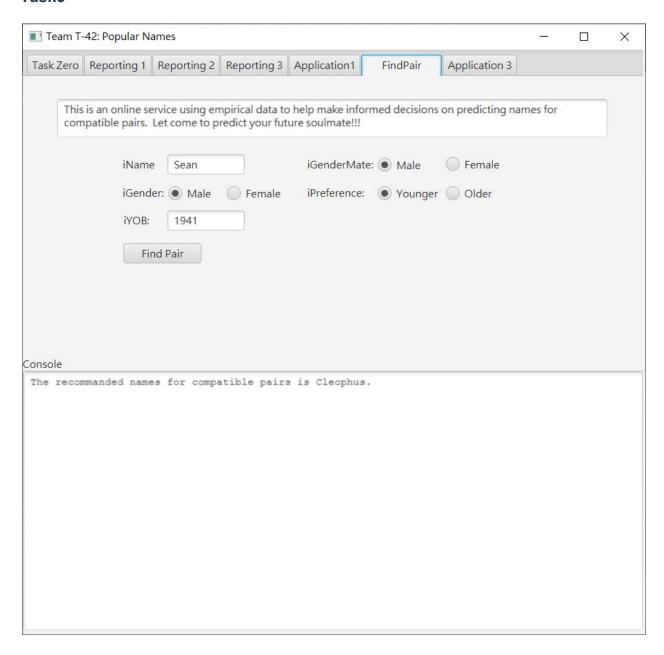


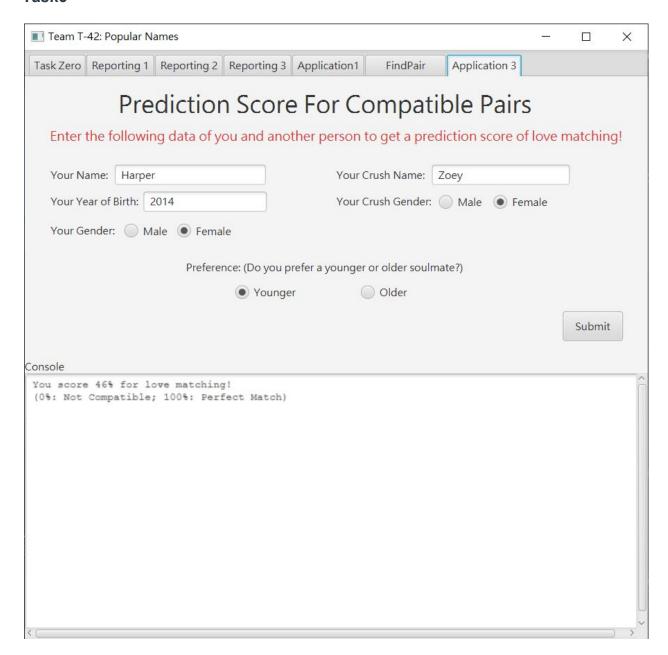




Screenshots of the execution of the application showing sample inputs and outputs of your choice (Recommendation Task)

Team T-	42: Popular Na	ames				294	39 8	×
Task Zero	Reporting 1	Reporting 2	Reporting 3	Application1	FindPair	Application 3		
thei	r newborn bab		cenario of App	olication: (i) Pare		informed decisions vices on naming th		
	Dad Name:	David		Mom N	ame: Mary			
	Dad Born Ye	ear (1880-2019	9): 1941	Mom Bo	orn Year (1880-	-2019): 1951		
	Vintage Yea	ır (1880-2019)	(Optional):					
Console	Leave Vintag	ge Year blank i	f no preferenc	ce.				
Recommend				o the NK-T4 ;				





Report on the unit testing for the implemented tasks (100% pass)

Package comp3111.popnames

all > comp3111.popnames



Classes

Class	Tests	Failures	Ignored	Duration	Success rate
<u>AnalyzeNamesTest</u>	11	0	0	0.109s	100%
<u>JavaFXTest</u>	68	0	0	1m58.98s	100%
Task2Test	16	0	0	25.435s	100%
Task5Test	21	0	0	40.286s	100%

Generated by Gradle 6.3 at 2020年12月5日 下午10:08:11

Report on the coverage test (>65% branch coverage)

PopNames3111 > # comp3111.popnames comp3111.popnames ♦ Missed Instructions ♦ Cov.♦ Missed Branches ♦ Cov.♦ Missed Cxty ♦ Missed ♦ Lines ♦ Missed ♦ Methods ♦ Missed ♦ Classes **⊙** Controller 91% 17 119 23 329 0 AnalyzeNames 54% 88% 3 24 25 72 0 MyApplication 0% n/a 3 11 11 3 91% 90% 3 25 48 0 3 0 2 1 24 0 20 ⊕ Task2and5_Checker = 98% 100% 49 9 0 100% 100% 0 61 0 8 0 27 215 Total 346 of 2,920 88% 24 of 336 92% 62 570 8 47

Documentation on the implemented tasks using JavaDoc



Specification

Task4:

If the vintage year is not chosen, it should remain empty. NKT4 Algorithm follows the given one.(Rank equals 1 if the name is not ranked in the given year of birth.

Task 2:

If the name does not always exist over the period, for the corresponding years, the system shows the Rank as "Nil", Count as 0, Percentage as 0.

Task 5:

NKT5 Algorithm is modified as if the year is 2019 and if the preference is younger will send an error message as the dataset is up to 2019, we cannot predict the younger soulmate. And if the year is 1880 and if the prefer is older will send error message as dataset is down to 1880, we cannot predict the older soulmate.

Task 3:

(y1 == y2) is considered an invalid set of input because there is no meaningful trend to study if the user only provides a period of one year.

Task 6:

The NKT6 algorithm is modified. The original one would give negative results if oRank is much less than oRankMate. Therefore, the denominator in the equation of calculating oScore is changed from oRank to max(oRank, oRankMate).