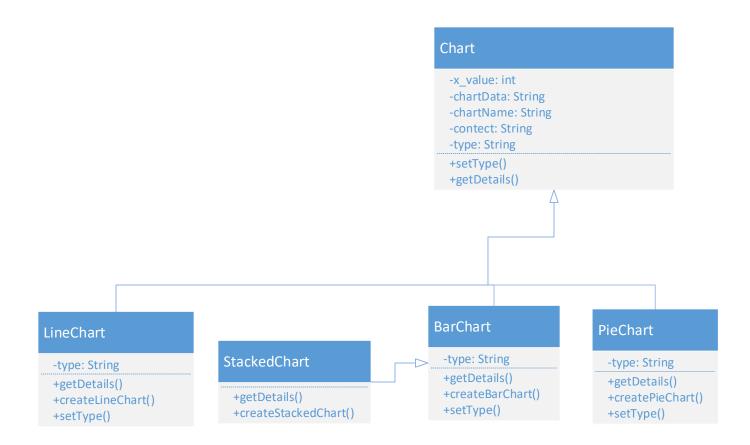


Template Design Pattern

- Abstract class is Chart
- It can call getDetails() amongst all. And setType() differs for each of the chart.
- Additional functionalities of different classes are included in their respective class.



Singleton Design Pattern

- All the different datasets are global point of contact for the user.
- SchoolProfile, CrimeReport, SatScore, Demographics, SchoolProgressReport are all the singleton classes.
- Each class has its own separate attributes and interfaces.

SchoolProfile

- -studentCount: Int
- -lowIncomeStudentCount: Int
- -englishLearnerCount: Int
- -dressCode: Bool
- -rating: String
- -getEnrollmentRate: Int
- -modeOfTransport: ModeOfTransport
- +getStudentCount()
- +getLowIncomeStudentCount()
- +getEnglishLearnerCount()
- +isDressCodePresent()
- +getEnrollmentRate()
- +getModeofTransport()

Demographics

- -genderStat: Gender-ethnicity: Ethnicity
- +getGenderStat()
 +getEthnicity()

SchoolProgressReport

- -attainmentRating: String
- -creativity: String
- -survey: Survey
- -attendance: String
- -growth: Growth
- +getAttainmentRating()
- +isSchoolCreative()
- +getsurvey(type)
- +getAttendance(type)
- +getGrowth(type)

CrimeReport

- -menArrests: Int
- -womenArrests:Int
- -weaponArrests: Weapon
- -drugArrests: Drug
- -liquorArrests: Liquor
- +getMenArrests()
- +getWomenArrests()
- +getweaponArrests()
- +getdrugArrests()
- +getliquorArrests()

SatScore

- -satTestTakeCount: Int
- -criticalReadAvgScore: Int
- -mathAvgScore: Int
- -writeAvgScore: Int
- -graduationRate: Int
- -getSatTestCount()
- -getCriticalReadScore()
- -getMathAvgScore()
- -getWriteAvgScore()
- -getGraduationRate()

Façade Design Pattern

- Unifies a set of more complex class that belong to some subsystem.
- SchoolInfoFacade unifies the different datasets.
- SchoolInfoFacade is the single point of contact to choose the different dataset by a user.

