School System

MAIN
- + SchoolSystem school1

+ main();

School System
- - List<Course> courses;
- - List<Student> students;
- - List<Instructor> instructors;
- - List<Teaching-Assistant> teaching_assistant
- - List<Lab-Technician> lab-technicians
- - List<Staff_Member> staff_members

+ addCourse();	+ add teachingassistant()
+ TypeOfPeople();	+ add lab-techs()
+ addStudent();	+ register for A course
+ addInstructor();	+ assignInstructorToCourse
+ assign TAToCourse();	+ assign LabTechToCourse
+ searchfor Student();	+ search for Course()
+ searchfor Instructor();	+ searchfor TA()
+ Search for LabTech();	+ searchfor SM()
+ displayStudents();	+ display CourseInfo

Person
- - String name;

+ getName(); String

Personnel
- - String rank;

+ getRank(); String

Instructor
- - String name;
- - String rank;

+ getRank(); String

+ getName(); String

Teaching-Assistant
- - String name;
- - String rank;

+ getRank(); String

+ getName(); String

Lab_Technician
- - String name;
- - String rank;

+ getRank(); String

+ getName(); String

Staff_Member
- + String name; - String rank;

+ getName(); String   + getRank(); Str
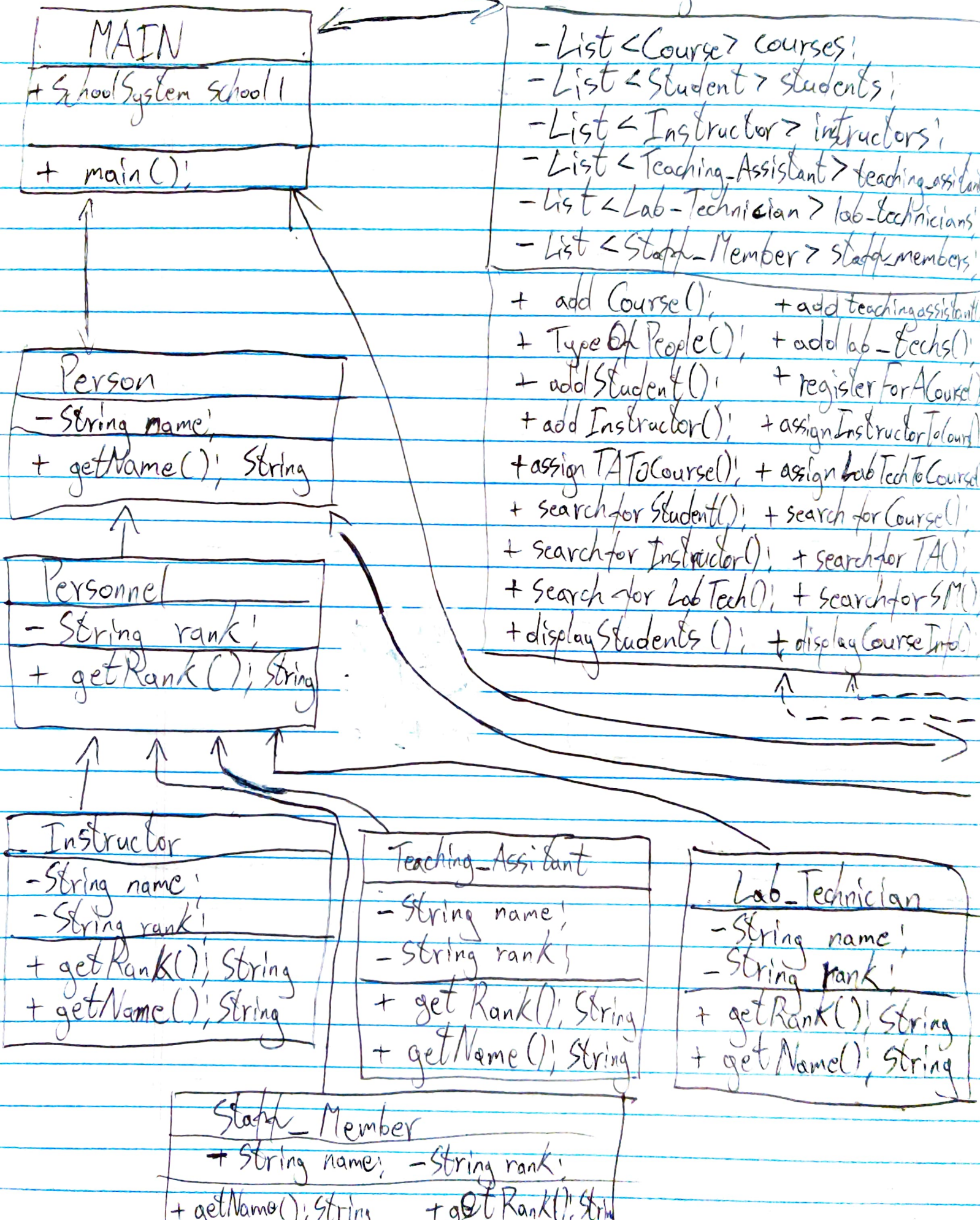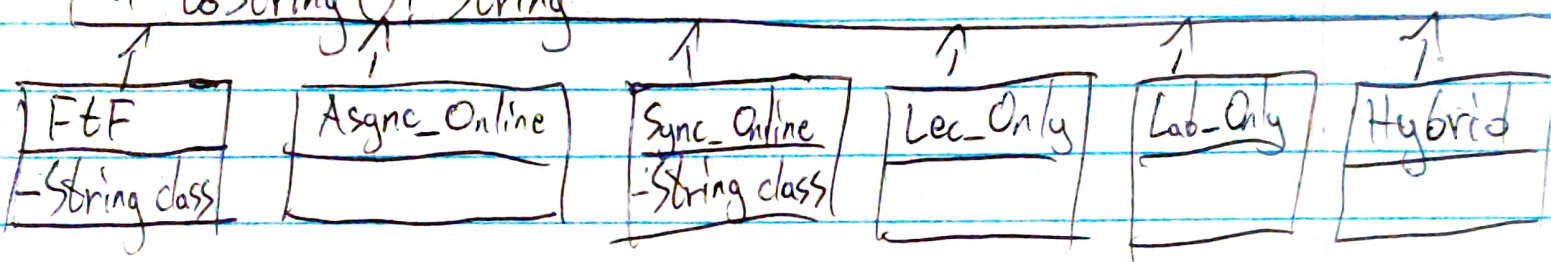
Course

- String name; - int creditHours;
- Student [ ] students - ~~int~~ int studentCapacity -int studentEnrollment
- Instructor [ ] instructors -int instructorCapacity -int instructorEnrollmentCapacity; Counter
- Teaching_Assistant[ ] ta -int taCapacity -int taEnrollment Counter;
- Lab_Technician[ ] lb -int lbCapacity -int lbEnrollment Counter;
- Staff_Member[ ] SM -int smCapacity -int smEnrollment Counter;

+ hasSpace (); boolean   + addToCourse ();
+ toString (); String

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┌──────────┐  ┌──────────────┐  ┌──────────────┐  ┌──────────┐  ┌──────────┐  ┌──────────┐
│ FtF      │  │ Async_Online │  │ Sync_Online  │  │ Lec_Only │  │ Lab_Only │  │ Hybrid   │
├──────────┤  └──────────────┘  ├──────────────┤  └──────────┘  └──────────┘  └──────────┘
│-String   │                    │-String class │
│ class    │
└──────────┘
```

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┌────────────────────────┐      ┌────────────────────────────┐
│ Null Pointer Exception │      │ InputMismatchException     │
├────────────────────────┤      ├────────────────────────────┤
│                        │      │                            │
└────────────────────────┘      └────────────────────────────┘
```

Student

- String name;
- int id;
- final int CREDIT_LIMIT;
- int currentCredits;

+ getName(); String   + getCurrentCredits(); int
+ getId(); int   + addCredits();
+ getCREDIT_LIMIT(); int