

# **OOP GENERAL**

## **EVALUATION**

Quiz-1 +Quiz-2	10%
Final exam	50%
Project	40%



# OOP FINAL PROJECT

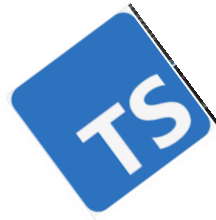
- ✓ INDIVIDUAL
- ✓ 3 AFTERNOONS + WEEK END
- ✓ DEADLINE TO SUBMIT: **SUN NOV 7<sup>th</sup>**
- ✓ PRESENT YOUR UML/CODE TO A **TECH JURY ON MON NOV 8<sup>th</sup>**

# OOP PROJECT EVALUATION



UML  
DIAGRAMM

30 %



TS  
CODE

40 %



**5 MIN**

PRESENTATION

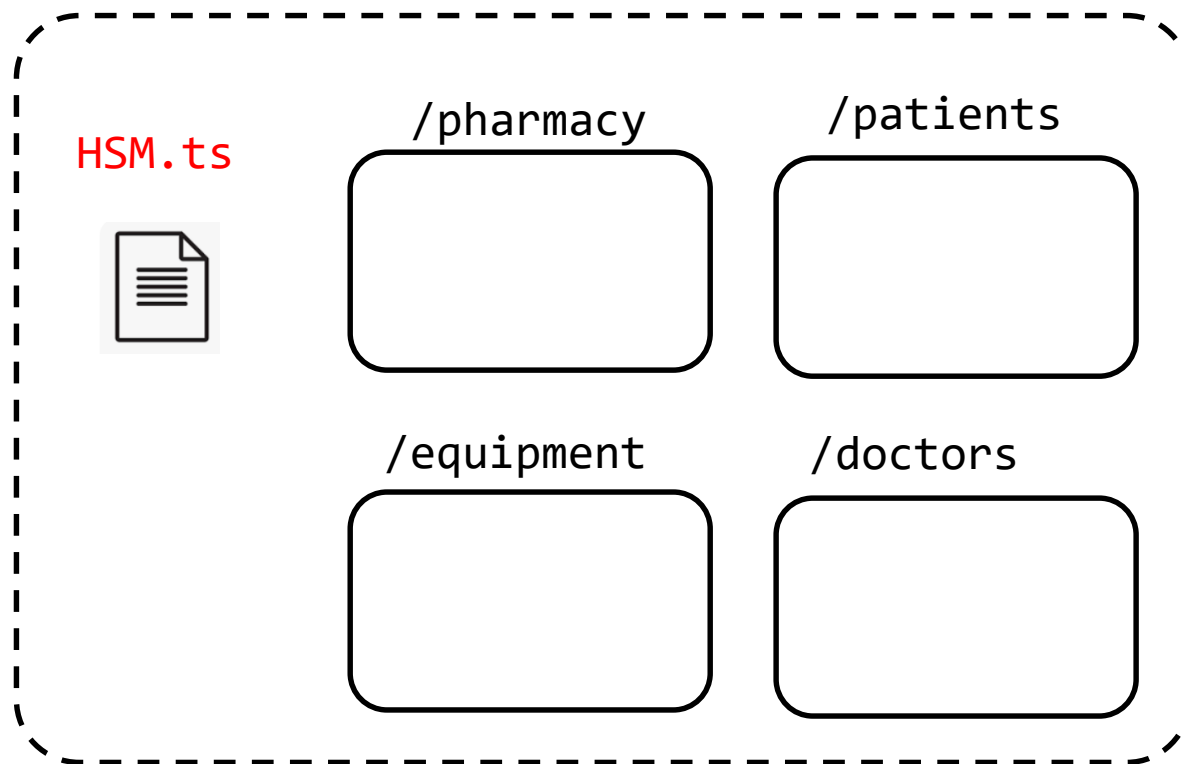
30 %

# HOSPITAL MANAGEMENT SYSTEM



# BACK-END ONLY APP !!!

YOUR MODEL – PER PACKAGE



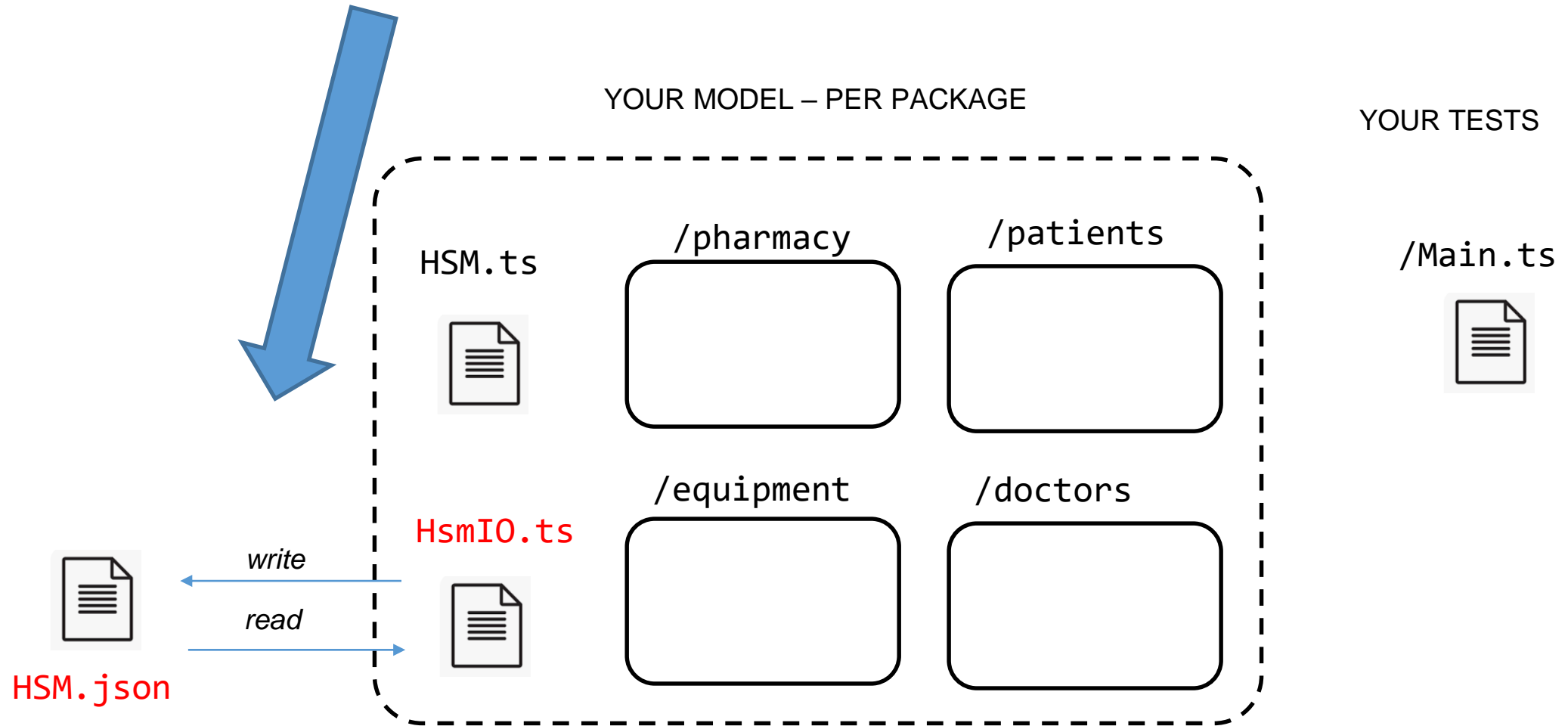
YOUR TESTS

**/Main.ts**



- ✓ Print on console
- ✓ Different test cases

# READ/WRITE (PERSISTENCY)



# EXAMPLE OF NEEDS



**Patients**

Manage patient sickness record

Assign patient to a room

Find a schedule for a doctor appointment



**Accounts**

Get staff salary

Manage budget



**Staff**

Manage staff schedule

Manage staff holidays

# EXAMPLE OF TEST

```
let hms = new HospitalManagementSystem();

// Create the patient in the patient management system
let ronanPatient = new Patient("ronan", "phnom penh", 78)
hms.patientsManagement().addPatient( );

// Find a free doctor to treat ronan ( he s got covid)
let dec22 = new Date(22, 12, 2021);
let freeDoctors = hms.getFreeDoctorsFor(dec22, Sicknesstype.COVID19);
if (freeDoctors.lenght>0) {
    let firstDoctorFree = freeDoctors[0];
    hms.schedule().book(ronan, dec22, firstDoctorFree);
}

// Print the new hospital planning
console.log('new hospital schedule:', hms.schedule().toString());
```



# WHAT DO YOU **NEED TO RETURN ?**

DEADLINE

SUN NOV 7th



Your UML diagrams as a **PDF** file

**Many diagrams** are expected !!!



Your project as a **ZIP** file

Must **include the TEST** !!!



## UML DIAGRAMM

Able to design a <b>relevant tree</b> of classes – <i>including abstract or interfaces</i> Example : the pharmacy drugs class hierarchy	50
Able to <b>assign good properties</b> on each classes Example : doctors can manage specific sickness types	50

/100



## TS CODE

Able to manage the <b>logic of the system</b> : Example : find the free room, find the free slot time for appointments	40
Able to <b>save/read the system (BONUS)</b> Example : implement the fromJson() method on each class	20
Able to <b>manage at LEAST 3 departments</b> Example : patient + doctor + schedule	30
Able to test <b>all possible cases in the main</b> : Example : display error if no bed free	30

/120



5 MIN

## PRESENTATION

Able to <b>describe the solution</b>	40
Able to <b>explain the reasons</b> of the chosen approaches	40
Clear English + communication	20

/100

**GOOD  
LUCK !**