

Object Oriented Analysis Design

Assessment - 1

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Programme : Bsc(Cs)

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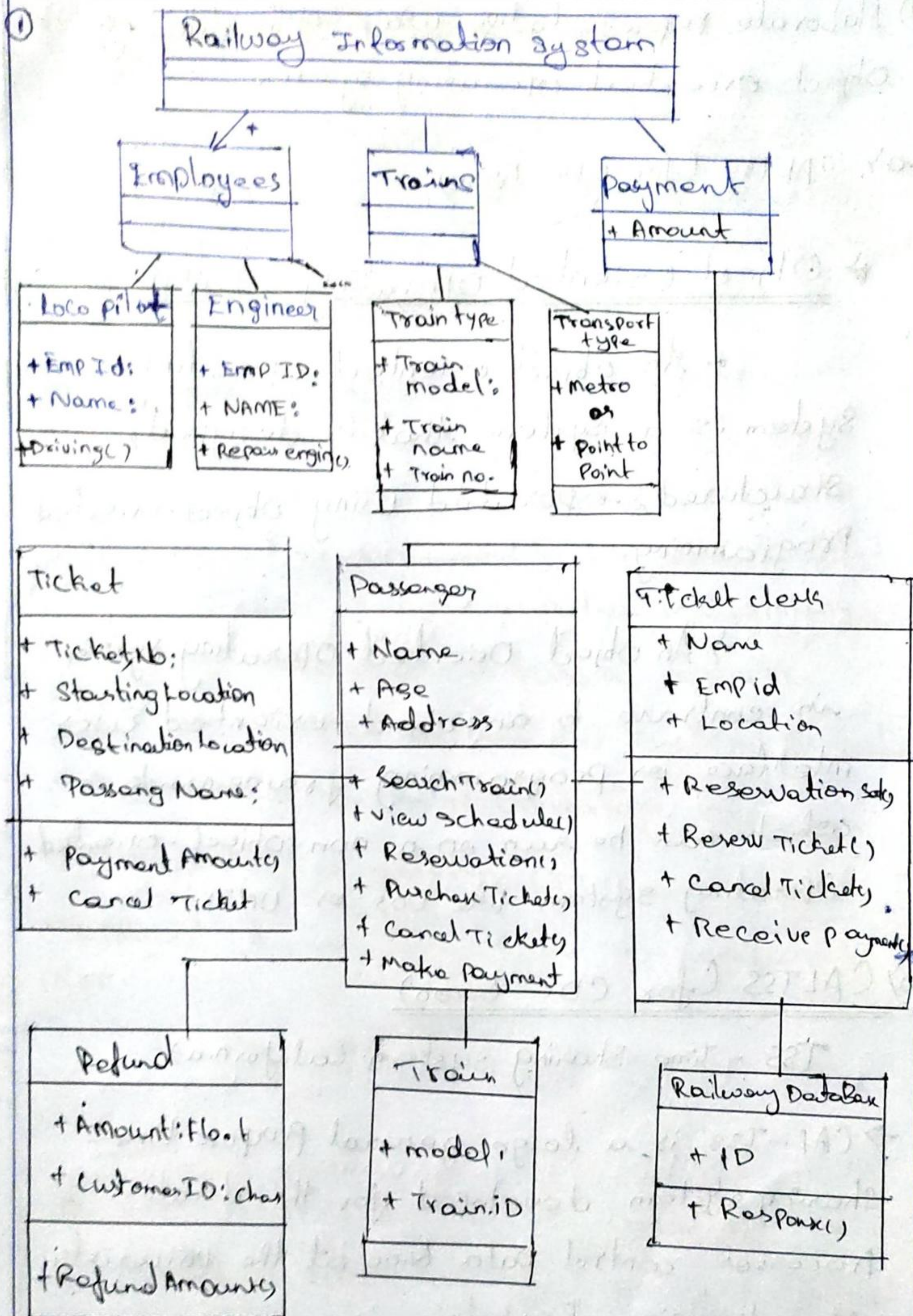
Slot : A1 + TA1

Course
code : CSC1011

Faculty
Name : Gunasekaran, G

Draw a class hierarchy diagram for
Railway Information systems.

①



② Elaborate representative usage of the following Object oriented operating system;

→ CALTSS (for CDC 6400)

★ Object Oriented Operating system:-

→ An object oriented operating system is a system that is designed, structured & operated using object-oriented programming.

→ An object oriented operating system in contrast to an object-oriented user interface or programming framework, which can be run on a non-object-oriented operating system like Dos or UNIX.

★ CALTSS (for CDC 6400)

TSS - Time sharing system. (California)

→ CAF-TSS is a large, general purpose time-sharing system developed for the dual-processors control Data 6400 at the University of California, Berkeley.

→ CDC - Control Data Corporation;

• CDC 6400 comes under CDC 6000 series.

CDC 6000 Series was a family of mainframe Computer manufactured by CDC in the 1960's.

It consisted of the CDC 6200, 6300, 6400, 6500, 6600 and 6700 computers, which were all extremely rapid & efficient for their time.

Representative Usage:

* In 1966, The Computing Center of the RWTH Aachen University acquired a CDC 6400, the first Control Data super computer in Germany and the second one in Europe, after the European Organization for Nuclear Research.

→ It served the entire university also by 64 x 10 mfx-line teletype (TTY) until it was replaced by a CDC Cyber 170 Computer in 1976.

→ It also used by US Navy.

CAP

* In this OS the process used as tree structure, with an initial process called the master coordinator.

CAP:

★ The Cambridge CAP Computer was the first successful experimental computer that demonstrated the use of security capabilities, both in hardware and software.

★ The CAP first became operational in 1976. A fully functional computer, it featured a complete operating system, file system, compiler and so on.

★ The OS used only two levels were ever used during in CAP's operation.

★ In 1981 the MACRO SPITBOL version of the SNOBOL programming language was implemented on the CAP by Nicholas J. L. Brown. The OS was software capabilities for addressing OS objects.

c) UCLA Secure Unix (for PDP 11/45)

* However this PDP 11/45 CPU went to do a memory cycle, it started cycle on both the fast and the 'A' UNIBUS. If that address was in an MS11, the MS11's controller indicated that it had it, over a special fast bus line.

* The UNIBUS cycle would then be abandoned before the CPU asserted MSYN.

* Then PDP 11/45 was the early fast UNIBUS PDP-11 system which uses high-performance CPU is implemented in SSI Schottky TTL logic.

d) IMAX intel 432

* IMAX intel 432 based on 1980s intel IAPX 432 32-bit microprocessor. The term micromainframe was an intel marketing designation describing the IAPX 432 processor's capabilities as being comparable to a mainframe.

~~IMAX~~ intel 432

Cond't....

- * It was an operating system developed by intel for digital electronic computer.
- * There were at least two versions of IMAX as of 1982, Version 1 and Version 2. Version 1 was undergoing internal intel testing as of 1981 & was scheduled to be released in 1982.
- * IMAX provided a runtime environment for ADA programming language.
- * It is as well as an incomplete ada compiler which was to be extended to cover the full Ada programming language in a later IMAX version after version.
- A) The IAPX 432 processor & the IMAX 432 operating system were incompatible with the x86 architecture commonly found in personal computers.