Course Management System Student User Instructor - insTreeSet TreeSet<InstructorDetails> = new -addNewStudent(String fname, -addNewInstructor(String fname, TreeSet<InstructorDetails> String Iname, String email, String String Iname. String email, String - stdTreeSet: course, int lvl, int sem) course, String[] modCodes) TreeSet<StudentDetails> -getDataFromFile() -getDataFromFile() = new -showAllStdDetails() -getInstructor(String id) TreeSet<StudentDetails> -showStdModDetails() -showAllInsDetails() - Courses:List<Course> = -viewResult(String stdId) -giveMarks() new ArrayList<>() -showInsOfMods(String modCode) InstructorDetails -showStdOfMods(String StudentDetails course, String modCode) + insld: String + stdId: String + insFirstName: String + stdFirstName: String + insLastName: String + insEmail : String + stdLastName: String + stdEmail: String + course: String + stdCourse: String + modules[]: String Admin + stdLevel: int + stdSem: int InstructorDetails(String id, + stdModules: String insfName, String List<Module> inslName, String email, String -getAllCourses(): List<Course> course, String modCodes[]) -cancelCourse(String shortName) -getStdId(): String -getInsId(): String -activateCourse(String shortName) -getStdFirstName(): String -getInsFirstName(): String -deleteCourse(String shortName) -getStdLastName(): String -getInsLastName(): String -editModule(String courseShort, String code, -getStdEmail(): String -getInsEmail(): String String newName) -getStdCourse(): String -getCourse(): String -getModulesOf(String courseShortName, -getStdLevel(): int -getModules(): String[] JPanel panel1, JPanel panel2) -getStdSem(): int -compareTo(InstuctorDetails -viewAllCourses() -getStdModules(): ins): int -viewCoursesForSelection() List<Module> -writeInFile(String courseName) -compareTo(StudentDetails -writeToFile(String courseName, String std) shortCourseName, Boolean Status, String Course modCodes[], String modNames[]) -makeCoursesFile() Module + courseName:String -storeFromFile(String crseName, String + courseShortName:String shortCourseName, Boolean status) + modCode:String + courseStatus:Boolean -addNewCourse(String name, String + modName:String + courseMod:List<Module> shortCourseName, Boolean status, String + sem:int moduleCodes[], String moduleNames[], int + marks:int sem[]) -getCourseName(): String -getFromCourseFile() -getCourseShortName():String - getModCode():String -makeResult(String stdId) -setCourseStatus(Boolean status) getModName():String Course(String courseName, - getSem():int String shortCourseName, - getMarks():int Boolean status, List<Module> - setMarks(int marks) setModName(String name) -getAllModules(): List<Module>

InstructorGUI

-adm: Admin -ins:Instructor -std:Student

InstructorGUI() -insLandPanel()

-insRegisterPanel(String courseShortName)

-insLoginPanel(String course) -instructorPanel(String

courseShortName, String id)

-giveMarksPanel(String modCode)

MainGUI

-MainGUI() mainPanel()

AdminGUI

-ad:AdminGUI -adm:Admin

adLandPanel() -coursePanel()

-makeResult()

-editPanel()

StudentGUI

- Module(String code, String

- Module(String code, String name, int sem, int marks)

name, int sem)

-adm: Admin -ins:Instructor

StudentGUI()

-std:Student

-stdLandPanel()

-stdLogInPanel(String course)

-studentPanel(String id)

-stdregisterPanel(String courseShortName)