

User Software Manual

The project has 4 headers files and 2 .cpp files.

Headers Files:

The abstract class EmploymentData.h will be the class implemented in other employee classes, it will be the base.

EmployeeTraining.h inherits from the abstract class and define all the function and classes. This class contains what an employee should have, the main functions are defined here: first name, last name, hireDate, and position.

Employee.h inherits from EmployeeTraining.h and add some other feature that an employee once is not training anymore should have such as username, password, salary, promotion.

Admin.h sets the default password and user for admin to access to the records.

Implementations:

The classes implementations possess important features that are necessary to outline:

- The hireDate method throws an exception when the format is invalid. The method checks if the input are digits and if there is backslash between them “/”.
- The cout overload operator allows the programmer to output the entire data to the console, which facilitates debugging.
- The cin overload operator allows programmers for input data of the entire employee record, facilitating debugging.
- Other methods as the usual getters and setters are defined and declared and allow programmers for setting a value as employee number and get that value returned.
- The text files are created by default if they do not exist, if they do exist the record will be appended. The functions also open the file for reading, and check if the record already exists. These text files are: Employee.txt and userPassword.txt

UML

	Employee	
+	EmployeeData()	Default Constructor with no parameters.
+	EmployeeData (lName: string, fName: string, position: string, empNumber: int)	Initialized with Last Name, First Name, Position in the company, and Employee Number
+	getSalary(): double	
+	getEmployeeNumber(): int	
+	getHireDate(): string	
+	getPosition(): string	
+	getFirstName(): string	
+	getLastName(): string	
+	getUserName(): string	
+	getPassword(): string	
+	setPayment(salary: double)	
+	setHireDate(date: string)	Throws exception. Allowed format: xx/xx/xxxx
+	setEmployeeNumber(number: int)	
+	setPosition(position: string)	
+	setFirstName(name: string)	
+	setLastName(last: string)	
+	setUserName(userName: string)	
+	setPassword(pass: string)	
+	isEmployee(): bool	
+	isFired():bool	
+	Promote (raise: int)	

	Admin	
+	Admin()	Default constructor with default values.
+	getLogin():string	
+	getPassword(): string	
+	setPassword(pass: string)	

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