Read entire thing once

Class diag

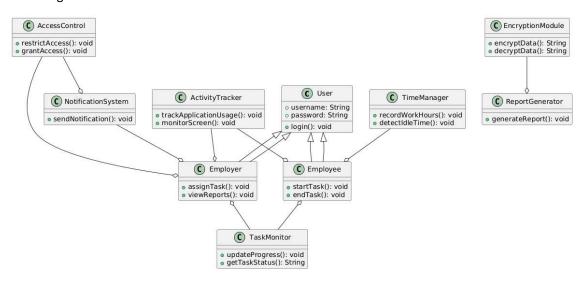
code

Sequence diag

code

Alternate diag of seq

Class diagram



@startuml

```
'Class Diagram

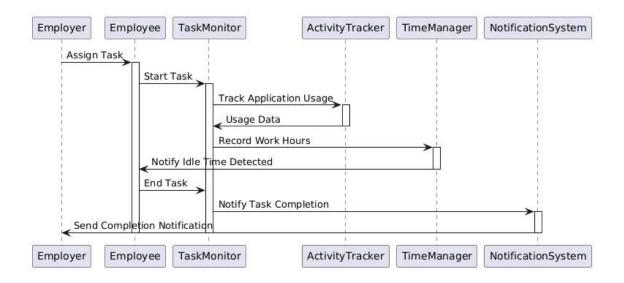
class User {
    +username: String
    +password: String
    +login(): void
}

class Employer extends User {
    +assignTask(): void
    +viewReports(): void
}
```

```
class Employee extends User {
 +startTask(): void
 +endTask(): void
}
class ActivityTracker {
 +trackApplicationUsage(): void
 +monitorScreen(): void
}
class TimeManager {
 +recordWorkHours(): void
 +detectIdleTime(): void
}
class TaskMonitor {
 +updateProgress(): void
 +getTaskStatus(): String
}
class AccessControl {
 +restrictAccess(): void
 +grantAccess(): void
}
class NotificationSystem {
 +sendNotification(): void
}
class EncryptionModule {
```

```
+encryptData(): String
 +decryptData(): String
}
class ReportGenerator {
 +generateReport(): void
}
User < | -- Employer
User < | -- Employee
Employer o-- TaskMonitor
Employee o-- TaskMonitor
ActivityTracker --o Employer
ActivityTracker --o Employee
TimeManager --o Employee
AccessControl --o Employer
AccessControl --o NotificationSystem
NotificationSystem --o Employer
EncryptionModule --o ReportGenerator
@enduml
```

Sequence diagram



Code

participant Employer

participant Employee

participant TaskMonitor

participant ActivityTracker

participant TimeManager

participant NotificationSystem

Employer -> Employee: Assign Task

activate Employee

Employee -> TaskMonitor: Start Task

activate TaskMonitor

TaskMonitor -> ActivityTracker: Track Application Usage

activate ActivityTracker

ActivityTracker -> TaskMonitor: Usage Data

deactivate ActivityTracker

TaskMonitor -> TimeManager: Record Work Hours

activate TimeManager

TimeManager -> Employee: Notify Idle Time Detected

deactivate TimeManager

Employee -> TaskMonitor: End Task

TaskMonitor -> NotificationSystem: Notify Task Completion

activate NotificationSystem

NotificationSystem -> Employer: Send Completion Notification

deactivate NotificationSystem

deactivate TaskMonitor

deactivate Employee

alternate

without activation deactivation

