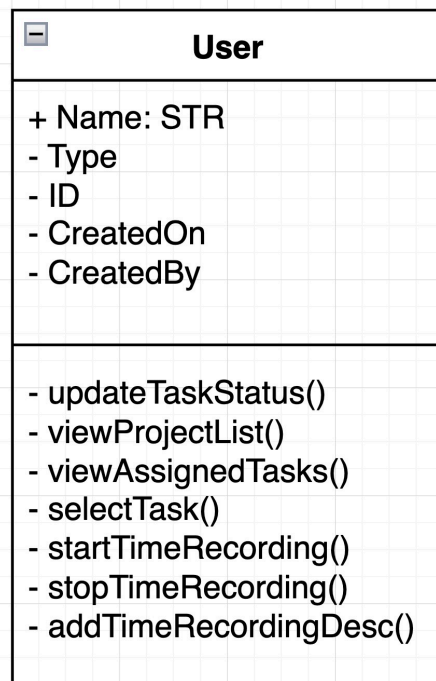


Amber Hoagland
IC5

Team members: Just me!

Class Diagram utilized:



Method chosen from diagram: viewAssignedTasks()

Method Signature:

- **Name:** viewAssignedTasks
- **Params/arguments to pass:** userID - a string representing the unique user who is viewing tasks and whose tasks should be returned in a list
- **Types of values to return:** a list of task details based on the Tasks table, including values: TaskID, Description, EstimatedDuration, and ActualDuration

Example in Java:

```
public List<Task> viewAssignedTasks(String userID) throws UnauthorizedAccessException,
IllegalStateException {
    // do all the things
}
```

Constraints that must be preserved by the objects:

- **Pre-condition:** the userID passed to the method must correspond to a valid, authenticated user
- **Handling when violated:** system throws an UnauthorizedAccessException error, presenting an error message to the user and terminating the process

- **Post-condition:** the returned list includes only tasks assigned to the user with the specified (passed) userID; each task belongs to a project the user is assigned to
 - **Handling when violated:** the system throws an IllegalStateException error and presents an error message to the user, terminates the process
- **Invariant 1:** a task is always linked to a valid project; each task's ProjectID value must correspond to an existing Project in the Projects table
 - **Handling when violated:** an IllegalStateException error is raised, throwing an error message and terminating the process
- **Invariant 2:** the user assigned to the task must also be assigned to the corresponding project in the UserAssignments table
 - **Handling when violated:** an IllegalStateException error is raised, throwing an error message and terminating the process