Task3 description

Your application allows you to manage Task and Project entities.

You have to add missing annotations and code over entity classes and converters to make it possible to store Task and Project and their relations in specified tables.

Requirements

- 1. Project.updates should be persisted in a table with the following structure:
 - 1. Table name: PROJECT EVENT UPDATES;
 - 2. Columns:
 - 1. PROJECT ID: foreign key;
 - 2. USER NAME: value of ItemUpdate.user;
 - 3. EVENT DATE: value of ItemUpdate.date.
- 2. Task.watchers should be persisted in a table with the following structure:
 - 1. Table name: TODO WATCHERS;
 - 2. Columns:
 - 1. TODO ID: foreign key;
 - 2. LOGIN: value of String from the Set.
- 3. Task.comments should be persisted in a table with the following structure:
 - 1. Table name: TODO COMMENTS;
 - 2. Columns:
 - 1. TODO ID: foreign key;
 - 2. AUTHOR: value of Comment.author;
 - 3. ADD DATE: value of Comment.date;
 - 4. COMMENT: value of Comment.comment.
- 4. Task.updates should be persisted in a table with the following structure:
 - 1. Table name: TODO UPDATES;
 - 2. Columns:
 - 1. TODO ID: foreign key;
 - 2. AUTHOR: value of ItemUpdate.user;
 - 3. UPDATE DATE: value of ItemUpdate.date.
- 5. Task.tags should be persisted in a table with the following structure:
 - 1. Table name: TODO TAGS;
 - 2. Columns:
 - 1. TODO ID: foreign key;
 - 2. NAME: key from the Map;
 - 3. DESCRIPTION: value from the Map.

Tables

The following tables should exist after implementation:

- 1. PROJECTS with columns PROJECT ID, NAME;
- 2. PROJECT_EVENT_UPDATES with columns PROJECT_ID, USER_NAME, EVENT_DATE;
- 3. Todos with columns todo id, subject, details;
- 4. TODO WATCHERS with columns TODO ID, LOGIN;
- 5. TODO COMMENTS with columns TODO ID, AUTHOR, ADD DATE, COMMENT;
- 6. TODO UPDATES with columns TODO ID, AUTHOR, UPDATE DATE;
- 7. TODO WATCHERS with columns TODO ID, NAME, DESCRIPTION.

Assumptions

Class names and function signatures should not be changed.

Hints

In order to satisfy the requirements you should:

• add missing annotations from the <code>javax.persistence</code> package to the <code>Task</code> and <code>Project</code> classes.

Source Code

The following classes have already been implemented:

ItemUpdate

```
@Embeddable
@NoArgsConstructor(access = AccessLevel.PRIVATE)
@AllArgsConstructor
@Getter
public class ItemUpdate {
    private String user;
    private LocalDate date;
}
```

Comment

```
@Embeddable
@NoArgsConstructor(access = AccessLevel.PRIVATE)
@AllArgsConstructor
@Getter
public class Comment {
    @Column(name = "AUTHOR")
```

```
private String author;
@Column(name = "ADD_DATE")
private LocalDate date;
@Column(name = "COMMENT")
private String comment;
}
```

In your solution, focus on correctness. Imports will not be needed and possible misspelled annotations will not be the focus of the assessment.