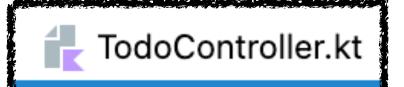
TODO App Backend

Fixing a bug



```
Before
                                                                                                         After
                                                                               @PutMapping
    @PutMapping
    fun putTodo(
                                                                               fun putTodo(
                                                               43
                                                                     43
        @RequestBody todoRequest: TodoRequest
                                                                                   @RequestBody todoRequest: TodoRequest
                                                                     44
   ) {
                                                                               ) {
                                                               45
                                                                     45
        todoService.createOrUpdate(todoRequest.toEntity())
                                                                                   val todo = todoRequest.id?.let {
                                                                                       todoService.getById(it).apply {
                                                                     47
                                                                                           task = todoRequest.task
                                                               48
                                                                                           completed = todoRequest.completed
                                                                     49
data class TodoRequest(
                                                               50
                                                                     50
                                                                                   } ?: todoRequest.toEntity() 
                                                                                                                      Fix: add optional, id' to the request.
    val task: String,
                                                                                                                      \if id is part of the request we check
    val completed: Boolean = false
                                                               52
                                                                     52
                                                                                   todoService.createOrUpdate(todo)
                                                                                                                           If this id exists, update the
                                                               53
                                                                     53
    fun toEntity() = TodoEntity(
                                                                                                                        corresponding data accordingly.
                                                                     54
                                                               54
        task = task,
                                                                                                                         if id not exists we create a new
                                                                     55
                                                               55
        completed = completed
                                                                     56
                                                                                                                                      entity.
                                                               56
                                                                           data class TodoRequest(
                                                               57
                                                                     57
                                                                               val id: Int? = null,
                                                               58
                                                                     58
                                                                               val task: String,
                                                               59
                                                                     59
                                                                               val completed: Boolean = false
                                                                     60
                                                                           ) {
                                                                     61
               Bug: We always created a new instance
                                                                               fun toEntity() = TodoEntity(
                                                                     62
              of TodoEntity. Thereby we generate a new
                                                                                   task = task,
                                                                     63
                 id every time and will not be able to
                                                                                   completed = completed
                           update an entity
```

66 66 **}**

Adjust corresponding Tests

We are facing the bug because of a missing test.

It is super important to focus on tests as much as on the business logic.

It would have saved us from running into the bug.

Before we only checked if we can create Todo. This test is still valid and needed.

Let's add our missing test to prove we can update existing todos via our rest endpoint.