

2024년 상반기 K-디지털 트레이닝

# TodoApp v2

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[KB] IT's Your Life

## ✓ TodoService

- Todo와 관련된 Command 들을 캡슐화
- 메서드 참조를 이용해 MenuItem에 설정

## TodoService.java

```
package org.scoula.todo.service;

import org.scoula.lib.cli.ui.Input;
import org.scoula.todo.dao.TODOdao;
import org.scoula.todo.dao.TODOlistdao;
import org.scoula.todo.domain.TODO;

public class TODOService {
    TODOdao dao = TODOlistdao.getInstance();

    public void printTODOlist() {
        for(TODO todo: dao.getList()) {
            String line = "%2d] %s".formatted(todo.getId(), todo.getTitle());
            System.out.println(line);
        }
        System.out.println();
    }
}
```

## TodoService.java

```
public void detaillTodo() {
    int id = Input.getInt("Todo Id: ");
    Todo todo = dao.getTodo(id);

    System.out.println("[Todo 상세보기]-----");
    System.out.println("ID      : " + todo.getId());
    System.out.println("제목    : " + todo.getTitle());
    System.out.println("설명    : " + todo.getDescription());
    System.out.println("완료여부: " + todo.isDone());
    System.out.println("등록일   : " + todo.getRegDate());
    System.out.println("-----");
    System.out.println();
}
```

## TodoService.java

```
public void addTodo() {
    System.out.println("[새 Todo 추가]-----");
    String title = Input.getLine("제목: ");
    String description = Input.getLine("설명: ");
    System.out.println("-----");

    Todo todo = Todo.builder()
        .title(title)
        .description(description)
        .done(false)
        .build();
    dao.add(todo);

    System.out.println();
}
```

## TodoService.java

```
public void updateTodo() {
    int id = Input.getInt("수정할 Id: ");
    Todo todo = dao.getTodo(id);

    System.out.println("[Todo 수정하기]-----");
    System.out.println("ID      : " + todo.getId());
    String title = Input.getLine("제목", todo.getTitle());
    String description = Input.getLine("설명", todo.getDescription());
    Boolean done = Input.confirm("완료여부", todo.isDone());
    System.out.println("-----");
    System.out.println();

    Todo updateTodo = (Todo)todo.clone();
    updateTodo.setTitle(title);
    updateTodo.setDescription(description);
    updateTodo.setDone(done);

    dao.update(updateTodo);
}
```

## TodoService.java

```
public void deleteTodo() {  
    int id = Input.getInt("삭제할 Todo Id: ");  
    dao.delete(id);  
  
    System.out.println();  
}  
  
}
```

## App.java

```
public class TodoApp extends App {
    TodoService service = new TodoService();

    @Override
    public void createMenu(Menu menu) {
        super.createMenu(menu);

        menu.add(new MenuItem("목록", service::printTodoList));
        menu.add(new MenuItem("상세", service::deleteTodo));
        menu.add(new MenuItem("추가", service::addTodo));
        menu.add(new MenuItem("수정", service::updateTodo));
        menu.add(new MenuItem("삭제", service::deleteTodo));
    }

    public static void main(String[] args) {
        App app = new TodoApp();
        app.run();
    }
}
```