

2024년 상반기 K-디지털 트레이닝

# CLI Framework v6 – Scoula Framework

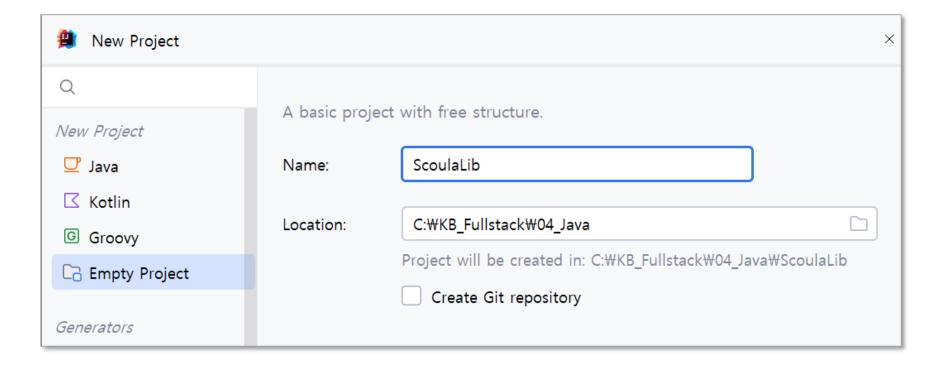
[KB] IT's Your Life



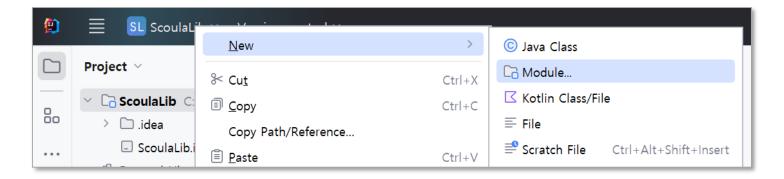
#### ☑ 프로젝트 생성

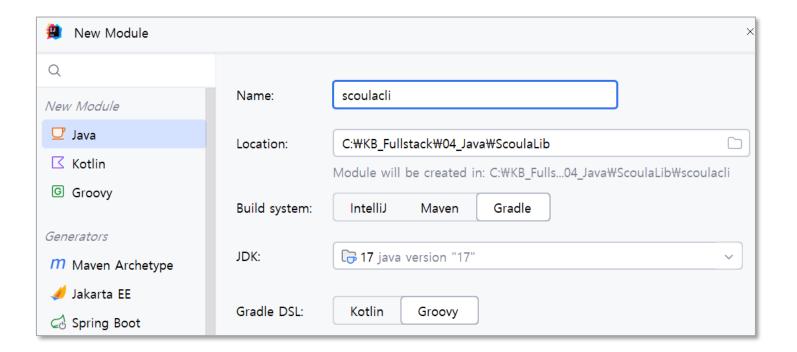
o 유형: Empty Project

o Name: ScoulaLib

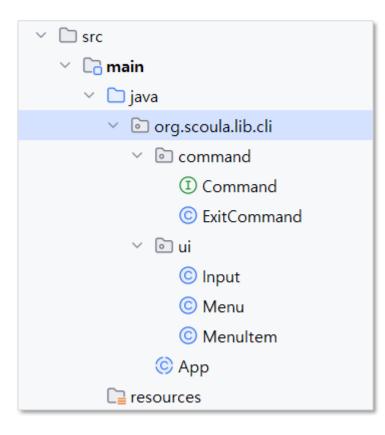


#### 🗸 모듈 추가





#### ☑ Scoula 프레임워크 구조



# Command.java

```
package org.scoula.lib.cli.command;

public interface Command {
    void execute();
}
```

## ExitCommand.java

```
public class ExitCommand implements Command {
  @Override
  public void execute() {
    System.out.println("프로그램 종료");
    System.exit(0);
  }
}
```

### Input.java

```
package org.scoula.lib.cli.ui;
import java.util.Scanner;

public class Input {
    static Scanner scanner = new Scanner(System.in);

    public static int getInt(String title) {
        System.out.print(title);
        return Integer.parseInt(scanner.nextLine());
    }
}
```

# Menultem.java

```
package org.scoula.lib.cli.ui;
import org.scoula.lib.cli.command.Command;
public class MenuItem {
    String title;
    Command command;
    public MenuItem(String title, Command command) {
       this.title = title;
        this.command = command;
    public String getTitle() {
        return title;
    public Command getCommand() {
        return command;
```

# Menu.java

```
package org.scoula.lib.cli.ui;
import org.scoula.lib.cli.command.Command;
import java.util.ArrayList;
public class Menu {
    ArrayList<MenuItem> menus;
    public Menu() {
        menus = new ArrayList<>();
    public void add(MenuItem item) {
        menus.add(item);
```

#### Menu.java

```
public void printMenu() {
  System.out.println("-----");
  for(int i = 0; i < menus.size(); i++) {</pre>
     System.out.printf("%d.%s | ', i+1, menus.get(i).getTitle());
  System.out.println();
  System.out.println("-----");
public Command getSelect() {
  int selectNo = Input.getInt("선택> ");
  // 올바른 범위 인지 체크
  return menus.get(selectNo-1).getCommand();
```

# App.java

```
package org.scoula.app;
import org.scoula.app.command.Command;
import org.scoula.app.ui.Menu;
import org.scoula.app.ui.MenuItem;
public abstract class App {
   Menu menu;
   public App() {
    public void init() {
       menu = new Menu();
        createMenu(menu);
       menu.add(new MenuItem("종료", new ExitCommand()));
    public void createMenu(Menu menu) {
```

# App.java

```
public void run() {
    init();
    while(true) {
        menu.printMenu();
        Command command = menu.getSelect();
        command.execute();
    }
}
```