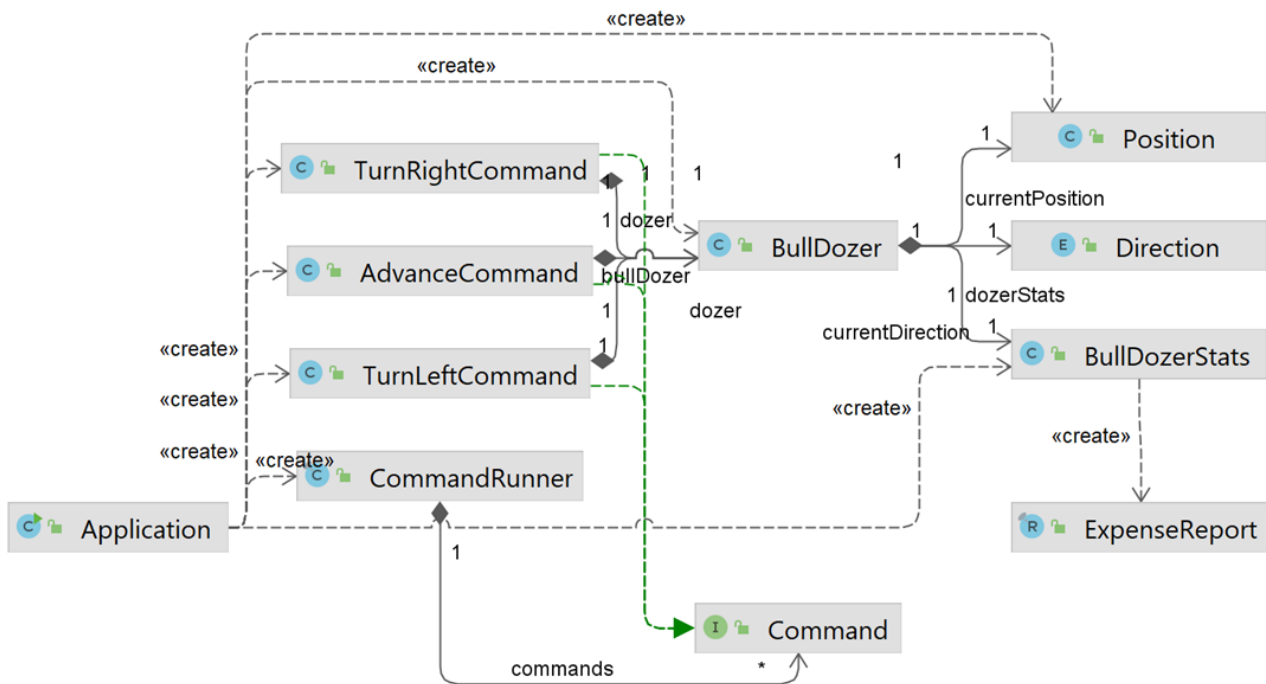


Site Clearing Simulator



Solution

- **CommandRunner** executes **Command** objects to call **left**, **right** and **advance** methods on *target object*, **Bulldozer** (Command pattern)
- **Direction** of **Bulldozer** changes by **left** and **right** method calls (State Pattern)
- **Position** of the **Bulldozer** get updated by **advance** command
- **BulldozerStats** tracks activities in the **Bulldozer**.
- **Application** creates **Command** (**TurnLeftCommand**, **TurnRightCommand**, **AdvanceCommand**, **QuitCommand**) based on *input from the user* (keyboard). The commands are then executed by **CommandRunner**.
- When Simulation ends, **Application** calls **BulldozerStats** for **expense report** to be formatted by **ReportFormatter** before printing the output with **ReportPrinter**.

Execution Instructions:

- Prerequisites: **Java 17** and **Maven** shall be installed on the machine.
- Unzip the **simulator.zip**
- Open terminal/console and **cd simulator** directory unzipped in step 1.
- Compile using command: **mvn clean install**
- Run using command:
 - **java -jar target\simulator-1.0-SNAPSHOT.jar <filename.txt>**
 - Example: **java -jar target\simulator-1.0-SNAPSHOT.jar c:\land_map.txt**