

# Design Patterns

Group 17

In this case, the case is based on the week, there are 7 days in the week, and there are different cases every day. In each day, there are different logs.

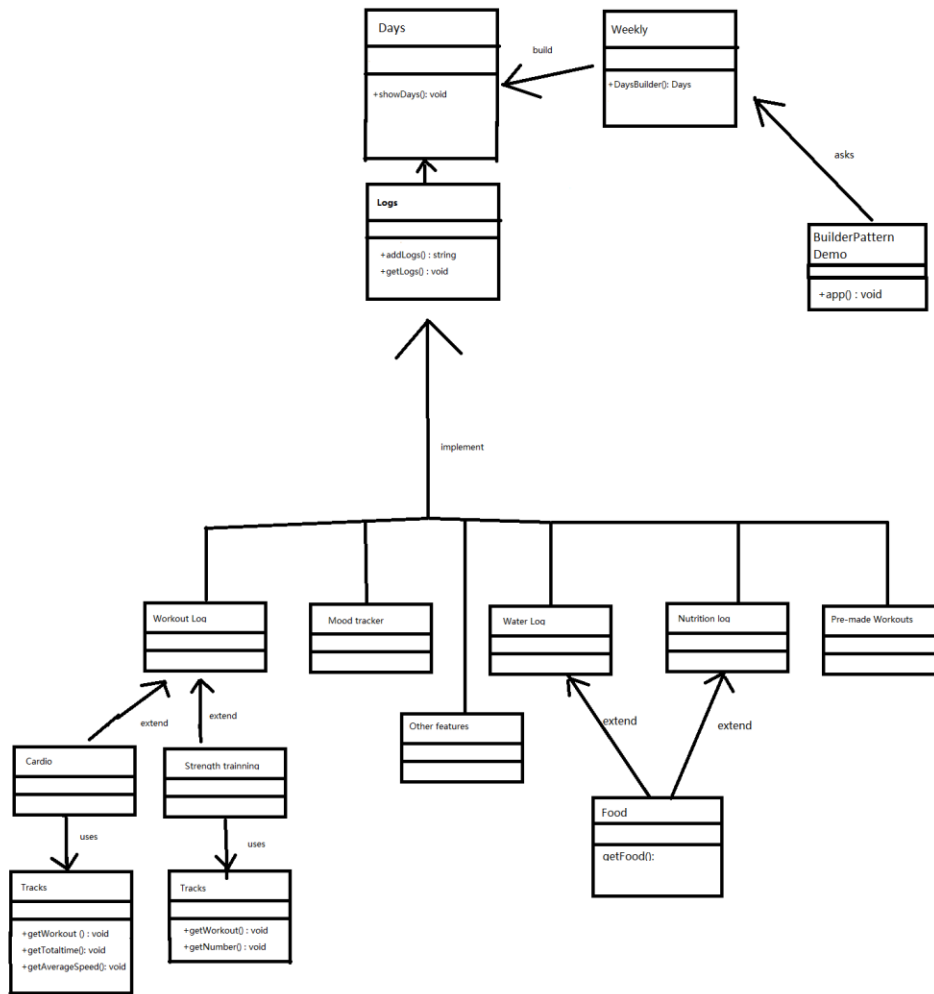
We will create a daily log to record different cases every day, such as Workout log, we have cardio and strength training. And for each training we have 2 tracks to record each training. Then we will get the workout log, and then create the daily log. For the same, we use different log cases to return to the daily log.

Demo – The demo class defines the type of the complex object that is to be generated by the weekly pattern.

Weekly- The weekly class defines the type of the complex object that is to be generated by the days pattern.

Days - This abstract base class defines. showDays method is used to return the daily log.

Logs – This method can be add, or delete. getLogs method is used to return each log.



Examples:

```
public class Demo
{
    public string Week { get; set; }

    public Demo(string week)
    {
        Make = week;
    }
}

public class week
{
    string day {get;set;}
    private dayBuilder _builder;
    public BuildDirector(dayBuilder builder)
    {
        _builder = builder;
    }

    public day getResult()
    {
        return this._builder.GetResult();
    }
}

public class day
{
    string logs{get;set;}
    public Demo GetResult()
    {
        return day.dailylog();
    }
}

public class logs
{
    string workout_log{get;set;}
    string moodTracker{get;set;}
    string waterLog{get;set;}
    string nutritionLog{get;set;}
    string pre_madeWorkouts{get;set;}
    string otherFeatures{get;set;}
```

```

    string dailylog;

    dailylog = workout_log + moodTracker + waterLog + nutritionLog +
pre_madeWorkouts + otherFeatures;
}

public interface workout_log
{
    string cardio{get;set;}
    string strengeth{get;set;}
}

public interface waterLog
{
    string food{get;set}
}

public interface nutritionLog
{
    string food{get;set}
}

public class app
{
    public dosomethingWithWeekly()
    {
        var builder = new week();
        var day = new day(builder);

        Demo myWeek = day.GetResult();
    }
}

```