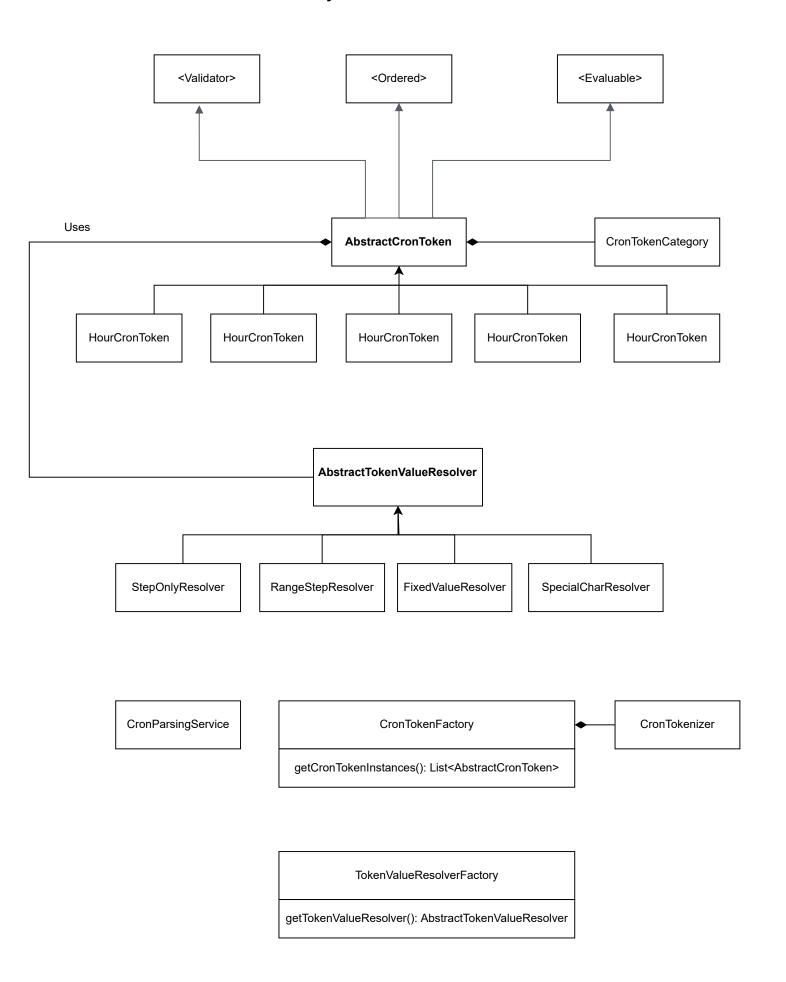
Cron Token Parser Class Hierarchy



Process Description

Tokenisation [Breaking Cron Expression into individual tokens Mapping each token to corresponding Token Implementation

Choosing the Right Resolver for the tokenImpl.

Evaluate the token within the permissible values

Example

Step 1. Input Cron Expression

*/15 0 1,15 * 1-5 /usr/bin/find

Step 2. Tokenize

Pair<CronTokenCategory, String>
Pair.of(CronTokenCategory.MINUTE, "*/15")
Pair.of(CronTokenCategory.HOUR, "0")
Pair.of(CronTokenCategory.DAY_OF_MONTH, "1,15")
Pair.of(CronTokenCategory.MONTH, "*")
Pair.of(CronTokenCategory.DAY_OF_WEEK, "1-5")
Pair.of(CronTokenCategory.COMMAND, "/usr/bin/find")

Step 3. Get Equivalent CronTokenType

list<AbstractCronToken>
[
new MinuteCronToken (value)
new HourCronToken (value)
new DayOfMonthCronToken (value)
new MonthCronToken (value)
new DayOfWeekCronToken (value)
new CommandCronToken (value)
]

Step4: For each value of CronTokenType find the correct resolver based on the token value,

Apply the right PermittedValue Value to the resolver

if (value is of type */15 for token type MinuteCronToken then CronTokenValue resolver will be StepOnlyResolver, With PermittedValue as 0 to 60.

Step5: Resolve the applicable value based on the token type and permitted value

return 0 15 30 45 as list