

Group 8

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Grammar

grammar smdp.project.survey.SurveyDSL with
org.eclipse.xtext.common.Terminals

```
import "platform:/resource/smdp.project.survey/model/model.ecore"  
import "http://www.eclipse.org/emf/2002/Ecore" as ecore
```

```
Survey returns Survey:  
    (questions+=Question)+;
```

```
Question returns Question:  
    OpenQuestion | MultipleChoice | RadioChoice;
```

```
Answer returns Answer:  
    Answer_Impl | OpenAnswer;
```

```
EString returns ecore::EString:  
    STRING | ID;
```

```
Answer_Impl returns Answer:  
    {Answer}  
    'answer'  
    name=EString  
    description=EString;
```

```
EBoolean returns ecore::EBoolean:  
    'true' | 'false';
```

```
OpenQuestion returns OpenQuestion:  
    'open:'  
    description=EString  
    (isOptional?='optional')?  
    ('requires' requiredPreviousAnswers+=[Answer|EString] ( ","  
requiredPreviousAnswers+=[Answer|EString])* )?  
    openAnswer=OpenAnswer;
```

```
MultipleChoice returns MultipleChoice:  
    'multiple:'  
    description=EString  
    (isOptional?='optional')?
```

```

    ('requires' requiredPreviousAnswers+=[Answer|EString] ( ","
requiredPreviousAnswers+=[Answer|EString])* )?
    (answers+=Answer)+;

```

RadioChoice **returns** RadioChoice:

```

    'single:'
    description=EString
    (isOptional?='optional')?
    ('requires' requiredPreviousAnswers+=[Answer|EString] ( ","
requiredPreviousAnswers+=[Answer|EString])* )?
    (answers+=Answer)+;

```

OpenAnswer **returns** OpenAnswer:

```

    {OpenAnswer}
    'text'
    name=EString
    (description=EString)?;

```

Concrete instance

multiple:

```

    "What is your favourite pet?"
    answer dogAnswer "I like dogs"
    answer catAnswer "I hat dogs, but like cats"
    text otherAnswer "What else?"

```

single:

```

    "What is better? Coffee or tea?"
    optional
    answer teaAnswer "Tea"
    answer coffeeAnswer "Coffee"

```

multiple:

```

    "Your favourite cold beverages"
    optional
    requires teaAnswer
    answer cola "Cocoa Cola"
    answer water "Water"

```

open:

```

    "Describe how you feel about Windows XP"
    optional
    text xpAnswer

```