SMDP: Grammar

Model Driven Development, IT-University of Copenhagen

Group 11

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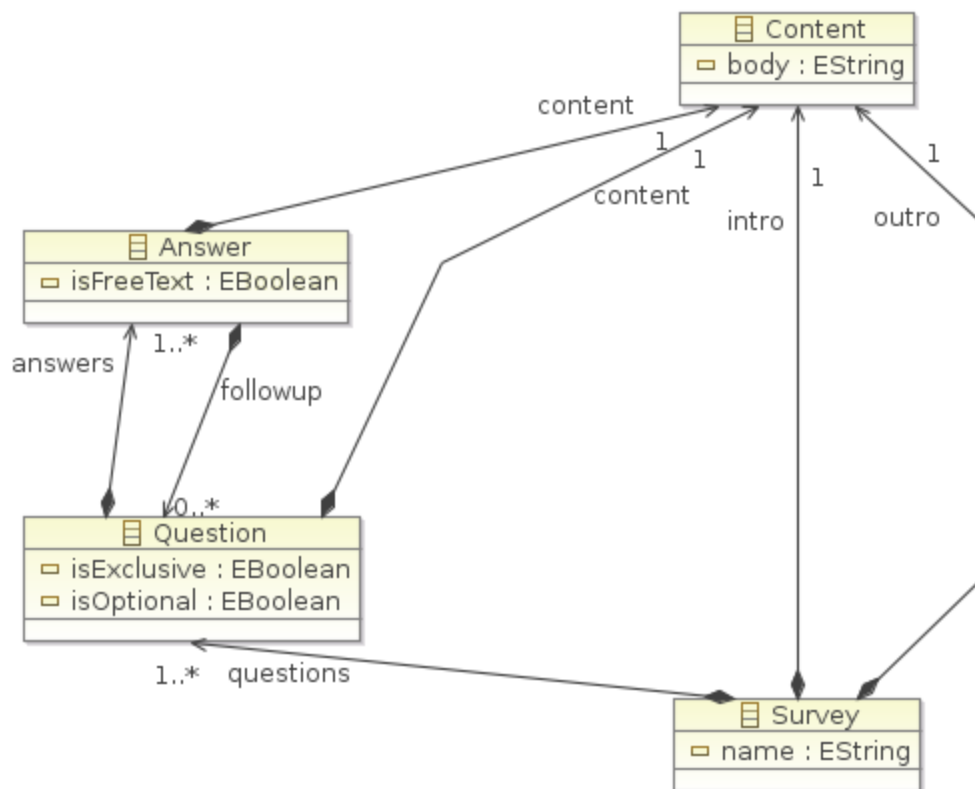
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Meta-model (updated)

Grammar specification

```
// automatically generated by Xtext
grammar dk.itu.smdp.group11.Survey with org.eclipse.xtext.common.Terminals

import "platform:/resource/dk.itu.smdp.group11/model/metamodel1.ecore"
import "http://www.eclipse.org/emf/2002/Ecore" as ecore

Survey returns Survey:
    'Survey' (name=EString)
    ('Intro') intro=Content
    questions+=Question ( questions+=Question)*
    ('Outro') outro=Content;

Question returns Question:
    'Question' (isExclusive?='ex')? (isOptional?='opt')? content=Content
    '('
        answers+=Answer ( answers+=Answer)*
    ')';

Content returns Content:
    {Content}
        (body=EString)?;

Answer returns Answer:
    'Answer' (isFreeText?='free')? content=Content
    ('('
        followup+=Question ( followup+=Question)*
    ')')?;

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

Concrete syntax example

```
Survey "The Fox Survey"

Intro "Welcome to Group 11's awesome survey! Yay!"

Question ex opt "What does the fox say?" (
    Answer "Oooooo-ooo-ooo!"
    Answer "Hatii-Hatii-Hoo!" (
        Question "Are you sure? :o" (
            Answer "Yes"
            Answer "Hell no!"
        )
    )
)

Question "Cow goes?" (
    Answer "Muuuuuhhh"
    Answer free "Miav!"
)

Outro "Thank you for answering the survey :) See ya"
```