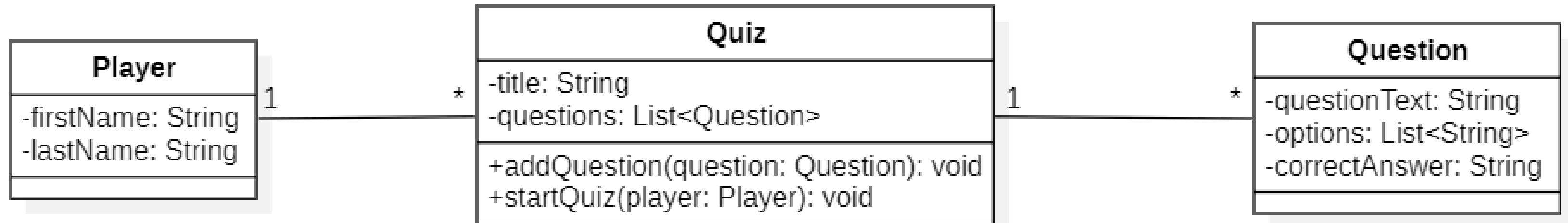# Quiz Project

Team 7:

- Touch Livita
- Van Hoklin

Class Diagram

Code

```
24    void addQuestion(Question question) {
25      questions.add(question);
26    }
27
28    void startQuiz(Player player) {
29      print('\nWelcome ${player.firstName} ${player.LastName}!');
30      print('Starting Quiz: $title');
31      int score = 0;
32
33      // Loop through each question in the quiz
34      for (var question in questions) {
35        // Display question and options
36        print(question.questionText);
37        for (int i = 0; i < question.options.length; i++) {
38          print('${i + 1}. ${question.options[i]}');
39        }
40
41        String? answer = stdin.readLineSync();
42        if (answer != null && answer.isNotEmpty) {
43          try {
44            // Split the input answer
45            List<int> answerIndices =
46                answer.split(',').map((a) => int.parse(a.trim()) - 1).toList();
47            List<String> selectedAnswers = [];
48
49            // Get selected answers
50            for (int index in answerIndices) {
51              if (index >= 0 && index < question.options.length) {
52                selectedAnswers.add(question.options[index]);
53              }
54            }
```

3

```dart
56          // Check for correct answers
57          if (selectedAnswers.isEmpty) {
58            print('No valid options selected. Please try again.\n');
59          } else if (selectedAnswers
60                  .toSet()
61                  .containsAll(question.correctAnswers.toSet()) &&
62              selectedAnswers.length == question.correctAnswers.length) {
63            score++;
64            print('Correct!\n');
65          } else {
66            print(
67                'Wrong! The correct answers were: ${question.correctAnswers.join(', ')}\n');
68          }
69        } catch (e) {
70          print(
71              'Invalid input. Please enter a number corresponding to the options.\n');
72        }
73      } else {
74        print('You must enter at least one answer.\n');
75      }
76    }
77    print(
78        'Quiz finished! ${player.firstName} ${player.lastName}, your score: $score/${questions.length}');
79  }
```