

TUGAS 05
PRAK06 Quizzler



Praktikum Pemrograman Berbasis Web - A

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PROGRAM STUDI S1 TEKNIK INFORMATIKA

FAKULTAS TEKNIK

UNIVERSITAS PANCASILA

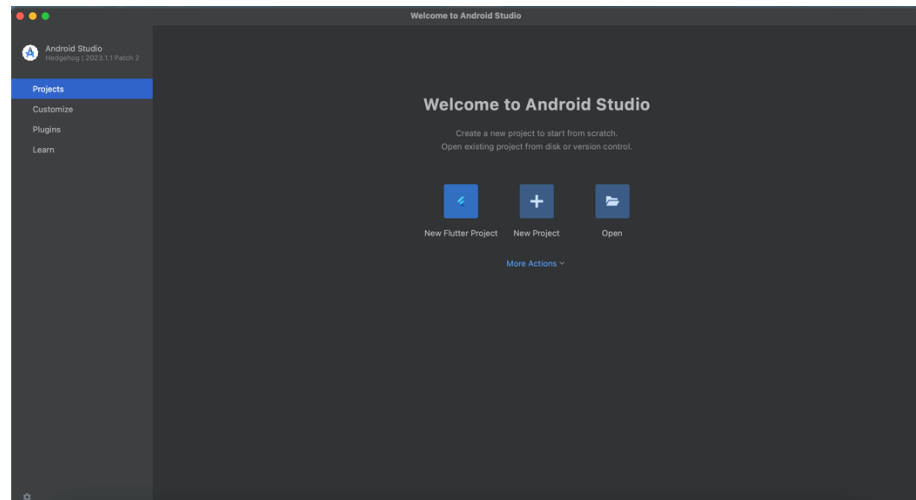
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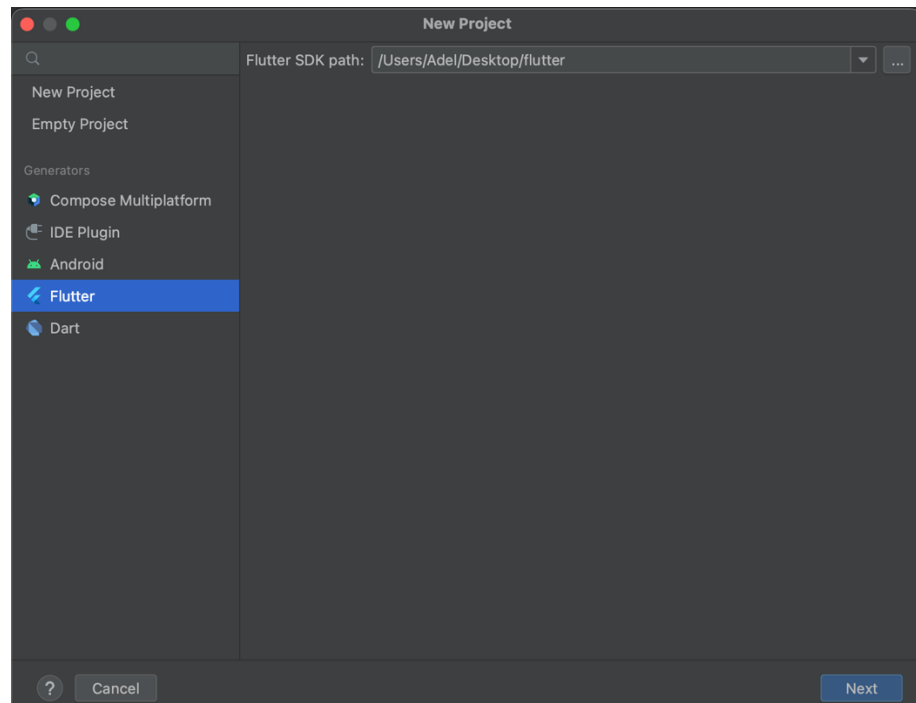
A. Project quizzler

a. First Initialization

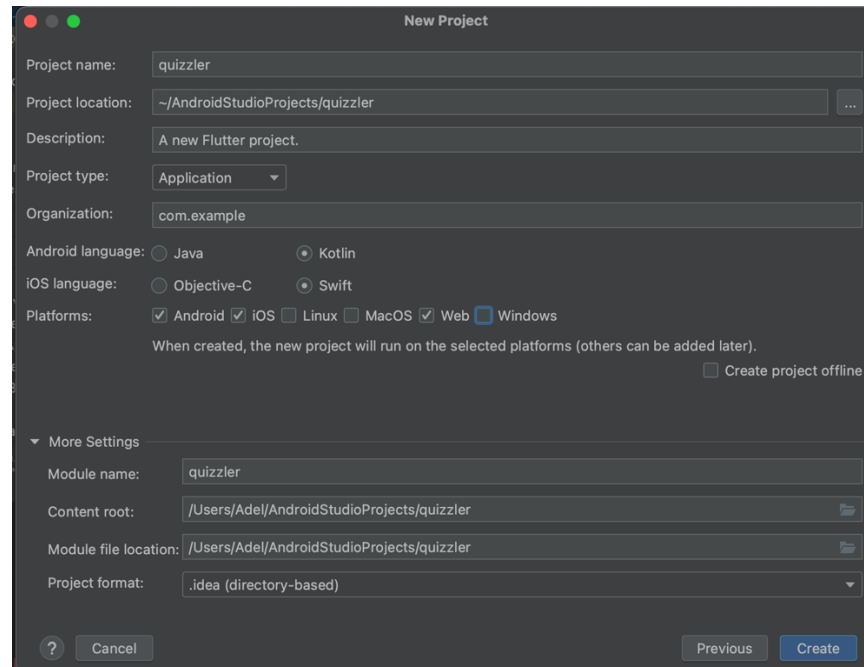
1. Akses web <https://docs.flutter.dev/ui/layout/tutorial>
2. Buka Android Studio



3. Pilih New Flutter Project -> Flutter -> Next



4. Isi form untuk nama project, tempat project, type, bahasa pemrograman, platforms dan lainnya -> Create



b. Membuat Layout

1. File main.dart

```
import 'package:flutter/material.dart';
import 'package:quizzler/quiz_brain.dart';
import 'package:rflutter_alert/rflutter_alert.dart';

// membuat object
QuizBrain quizBrain = QuizBrain();

// fungsi main
void main() {
  runApp(const QuizzlerApp());
}

class QuizzlerApp extends StatelessWidget {
  const QuizzlerApp({super.key});

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: Scaffold(
        backgroundColor: Colors.white,
        appBar: AppBar(
          title: const Text(
            'NCT 127 QUIZZES',
            style: TextStyle(
```

```

        color: Colors.black,
        fontWeight: FontWeight.bold,
      ),
    ),
    backgroundColor: Colors.lightGreenAccent,
  ),
  body: const SafeArea(
    child: Padding(
      padding: EdgeInsets.symmetric(horizontal:
10.0),
      child: QuizPage(),
    ),
  ),
),
);
}
}

class QuizPage extends StatefulWidget {
  const QuizPage({super.key});

  @override
  State<QuizPage> createState() => _QuizPageState();
}

class _QuizPageState extends State<QuizPage> {
  List<Icon> scoreKeeper = [];

  // menghitung jawaban benar dan salah
  int numCorrect = 0;
  int numIncorrect = 0;

  void checkAnswer(bool userPickedAnswer) {
    bool correctAnswer = quizBrain.getCorrectAnswer();

    // setState
    setState(() {
      // mengecek quiz telah selesai atau belum
      if (quizBrain.isFinished()) {
        // jika quiz sudah selesai
        Alert(
          context: context,
          title: 'Finished',
          desc: 'You\'ve reached the end of the Quiz\n'
            'Correct Answers: $numCorrect\n'
            'Incorrect Answers: $numIncorrect\n'
            'Total Questions:
${quizBrain.getTotalQuestions()}',
        ).show();

        quizBrain.reset();
        scoreKeeper = [];

      } else {
        if (userPickedAnswer == correctAnswer) {
          scoreKeeper.add(const Icon(

```

```

        Icons.check_circle,
        color: Colors.lightGreenAccent,
    ));
    numCorrect++;
  } else {
    scoreKeeper.add(const Icon(
      Icons.close_sharp,
      color: Colors.red,
    ));
    numIncorrect++;
  }
  quizBrain.nextQuestion();
}
});
}

@override
Widget build(BuildContext context) {
  return Column(
    mainAxisAlignment:
MainAxisAlignment.spaceBetween,
    crossAxisAlignment: CrossAxisAlignment.stretch,
    children: <Widget>[
      Expanded(
        flex: 5,
        child: Padding(
          padding: const EdgeInsets.all(10.0),
          child: Center(
            child: Text(
              quizBrain.getQuestionText(),
              textAlign: TextAlign.center,
              style: const TextStyle(
                fontSize: 25.0,
                color: Colors.black,
              )
            ),
          ),
        ),
      ),
      Expanded(
        child: Padding(
          padding: const EdgeInsets.all(15.0),
          child: TextButton(
            onPressed: () {
              checkAnswer(true);
            },
            style: const ButtonStyle(
              backgroundColor:
MaterialStatePropertyAll(Colors.lightGreenAccent),
              foregroundColor:
MaterialStatePropertyAll(Colors.black),
              textStyle: MaterialStatePropertyAll(
                TextStyle(fontSize: 20.0),
              ),
            ),
            child: const Text(

```

```

        "TRUE",
      ),
    ),
  ),
),
Expanded(
  child: Padding(
    padding: const EdgeInsets.all(15.0),
    child: TextButton(
      onPressed: () {
        checkAnswer(false);
      },
      style: const ButtonStyle(
        backgroundColor:
MaterialStatePropertyAll(Colors.red),
        foregroundColor:
MaterialStatePropertyAll(Colors.black),
        textStyle: MaterialStatePropertyAll(
          TextStyle(fontSize: 20.0),
        ),
      ),
      child: const Text(
        "FALSE",
      ),
    ),
  ),
),
),
),
Row(
  children: scoreKeeper,
)
],
);
}
}

```

- Membuat halaman QuizPage stateful
- Tambah package alert

2. File question.dart

```

class Question {
  String questionText;
  bool questionAnswer;

  Question({required this.questionText, required
this.questionAnswer});
}

```

- Class question

3. File quiz_brain.dart

```

class Question {
  import 'question.dart';
}

```

```

class QuizBrain {
    int _questionNumber = 0;

    final List<Question> _questionBank = [
        Question(questionText: 'NCT 127 debut July 7,
2016', questionAnswer: true),
        Question(questionText: 'NCT 127 debut song is
Cherry Bomb', questionAnswer: false),
        Question(questionText: 'The youngest member in NCT
127 is Haechan', questionAnswer: true),
        Question(questionText: 'Taeyong is NCT 127 leader',
questionAnswer: true),
        Question(questionText: 'The 7th Sense is NCT 127
song', questionAnswer: false),
        Question(questionText: 'Johnny is the oldest member
of NCT 127', questionAnswer: false),
        Question(questionText: 'Doyoung joined NCT 127 in
2017', questionAnswer: true),
        Question(questionText: 'Mark is the main rapper of
NCT 127', questionAnswer: true),
        Question(questionText: 'Taeil is the main vocalist
of NCT 127', questionAnswer: true),
        Question(questionText: 'Yuta is NCT 127 member born
in America', questionAnswer: false),
        Question(questionText: 'Jungwoo first studio album
is NCT #127 Regular-Irregular ', questionAnswer:
true),
        Question(questionText: 'Jaehyun is main focal and
rapper in NCT 127', questionAnswer: true),
        Question(questionText: 'NCT 127 Home',
questionAnswer: true),
    ];

    void nextQuestion() {
        if (_questionNumber < _questionBank.length) {
            _questionNumber++;
        }
    }

    String getQuestionText() {
        return _questionBank[_questionNumber].questionText;
    }

    bool getCorrectAnswer() {
        return
        _questionBank[_questionNumber].questionAnswer;
    }

    //TODO: Step 3 Part A - create isFinished method that
    checks the last questions.
    bool isFinished() {
        if (_questionNumber >= _questionBank.length - 1 ) {
            print('returning true');
            return true;
        } else {

```

```

        return false;
    }
}

//TODO: Menghitung jumlah pertanyaan
int getTotalQuestions() {
    return _questionBank.length;
}

//TODO: Step 4 Part B - Create a reset() method that
sets the questionNumber back to 0
void reset() {
    _questionNumber = 0;
}
}

```

- Class quiz_brain
- Memanggil class question dari file question.dart

4. Install Package

Buka terminal

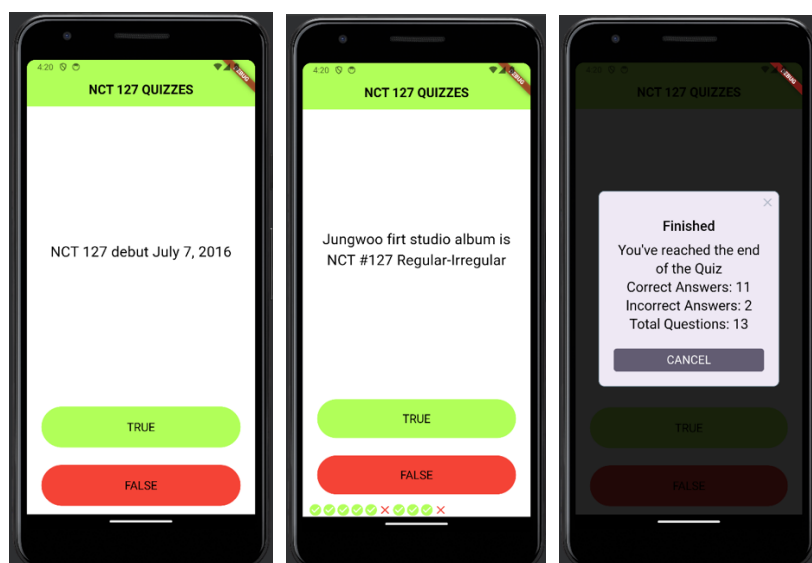
```

$ cd /Users/Adel/AndroidStudioProjects/quizzler
$ flutter pub add rflutter_alert

```

5. Run

Pilih Simulator -> Klik Ikon Run



B. Push Code to GitHub https://github.com/adelianurlinap/Prak_PBM.git

- a. Clone Repository yang telah dibuat :

```
git clone https://github.com/adelianurlinap/Prak_PBM.git
```

- b. Add dan commit

```
git add .  
git commit -m "Tugas5"
```

- c. Push code

```
git push
```

C. Kesimpulan

Pada tugas 5 ini, telah dilakukan praktek untuk membuat stateful app dan app dengan Alert.

D. Referensi

<https://github.com/adiwp/MobileProjects>