TECHNOLOGICAL INSTITUTE OF THE PHILIPPINES QUEZON CITY

NO-SHIFT: A STUDENT'S GO-TO TO-DO APPLICATION

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TABLE OF CONTENTS

ı	NI.	Т	R	\cap	П	П	C	ΤI	\cap	٨
	ıv		_	. ,	.,	. ,	٠.		١,	

STATEMENT OF THE PROBLEM

OBJECTIVES

SYSTEM REQUIREMENTS AND ANALYSIS

DESIGN

CODE AND IMPLEMENTATION

MAINTENANCE

GANTT CHART

I. INTRODUCTION / PROBLEM

Students often find themselves in a predicament against an overload of academic tasks, finding little to no time to sort through their assignments and becoming unable to pass in time. Oftentimes, missed assignments become a student's norm, constantly pedaling themselves forward to catch up with an overwhelming influx of tasks—but more often than not, students also lack the time nor energy to actively do so.

As such, the student developers involved in this project are just as aware of the troubles faced by students of today. To overcome this, the developers have come up with a tool that will aid against such an issue: introducing "NO-SHIFT: A Student's Go-To To-Do Application"--a user-friendly option for students to efficiently sort through their assignments in the form of a interactable to-do list.

II. OBJECTIVES

This project aims to:

- provide a tool for students to help them organize their tasks
- exercise maximum efficiency in doing so; and
- encourage active learning by sorting their assignments in an interactive to-do list.

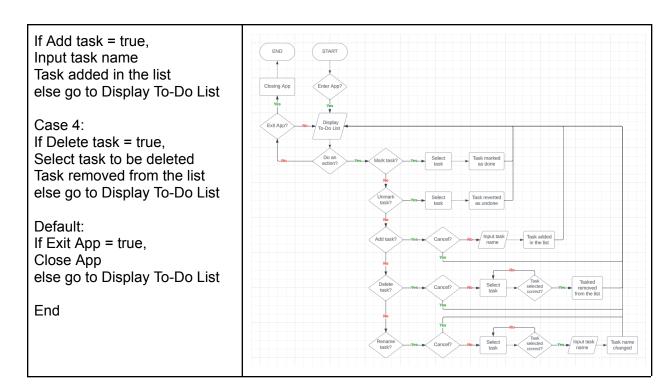
III. SYSTEM REQUIREMENTS AND ANALYSIS

In order to operate the program, a user must have:

- An android device
- At least 20 MB of space

IV. DESIGN

Algorithm	Flowchart
Start Enter App Display To-Do List Select Action	
Case 1: If Mark task = true, Task marked as done	
Case 2: If Unmark task = true, Task reverted as undone	
Case 3:	



V. CODE AND IMPLEMENTATION

```
Insert code snippets here
MAIN FILE
main.dart
  nain.dart × to_do.dart
                                            👏 todo_tile.dart
                                                                     odialog_box.dart
                                                                                               👏 button.dart
                                                                                                                     odatabase.dart
                                                                                                                                                                                                        ₽ ∨ □ ···
            import 'package:flutter/rendering.dart';
import 'package:hive_flutter/hive_flutter.dart';
import 'package:no_shift/Pages/to_do.dart';
            Run | Debug | Profile void main() async [
              // open hive box
var box = await Hive.openBox('todo');
              // Make the padding and alignment lines visible
debugPaintSizeEnabled = false;
            class MyApp extends StatelessWidget {
                    eturn MaterialApp(
debugShowCheckedModeBanner: false,
                  home: ToDo(),
); // MaterialApp
```

UTILITIES button.dart o dialog_box.dart **♦ button.dart** × **♦** database.dart ♦ to_do.dart ♦ todo_tile.dart | lib > Utilities > ♠ button.dart > ❤ MyButton > ❤ build 1 // ignore_for_file: must_be_immutable, sort_child_properties_last VoidCallback onPressed; super.key, required this.text, required this.onPressed, @override Widget build(BuildContext context){ return MaterialButton(child: Text(text), color: ■Colors.orange[300], textColor: ■Colors.white, minWidth: 100, height: 50, shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(12.0),), // RoundedRectangleBorder); // MaterialButton dialog_box.dart ♦ todo_tile.dart ♦ dialog_box.dart × ♦ button.dart odatabase.dart ▶ 🗆 … | lib > Utilities > \(\) dialog_box.dar > \(\) DialogBox > \(\) DialogBox \(\) DialogBox \(\) DialogBox \(\) (#ignore_for_file: prefer_const_constructors, unused_import, prefer_const_literals_to_create_immutables, prefer_typing_uninitialized_var import 'package:flutter/material.dart'; import 'package:no_shift/Utilities/button.dart'; VoidCallback onSave; VoidCallback onCancel; super.key, required this.controller, required this.onSave, required this.onCancel, @override Widget build(BuildContext context){ return AlertDialog(backgroundColor: Colors.orange[100], title: Text('Create New Task'), height: 120, mainAxisAlignment: MainAxisAlignment.spaceEvenly,

```
decoration: InputDecoration(
border: OutlineInputBorder(),
                             hintText: 'Enter new task',
), // InputDecoration
), // TextField
                               padding: const EdgeInsets.only(top:6),
                                child: Row(
                                  mainAxisAlignment: MainAxisAlignment.spaceEvenly,
                                      MyButton(
text: 'Save',
onPressed: onSave,
                                      // cancel button
MyButton(
text: 'Cancel',
onPressed: onCancel,
                              ), // Row
), // Padding
todo_tile.dart
                                                   ♦ todo_tile.dart × ♦ dialog_box.dart ♦ button.dart
                           🐚 to_do.dart
                                                                                                                                                                                                                                      ▶ Ⅲ …
                                                                                                                                     odatabase.dart
    nain.dart
    lib > Utilities > 6 todo_tile.dart > ...
1  // ignore_for_file: prefer_const_constructors, sort_child_properties_last, must_be_immutable
              import 'package:flutter/material.dart';
import 'package:flutter_slidable/flutter_slidable.dart';
                 final String taskName;
                final bool taskCompleted;
Function (bool?)? onChanged;
Function(BuildContext)? deleteFunction;
                   required this.taskName, required this.taskCompleted,
                    required this.onChanged,
                   required this.deleteFunction,
});
                 goverrace
widget build(BuildContext context){
  return Padding(
    padding: EdgeInsets.only(left:18, right:18, top:10),
    child: Slidable(
    endActionPane: ActionPane(
```

children: [

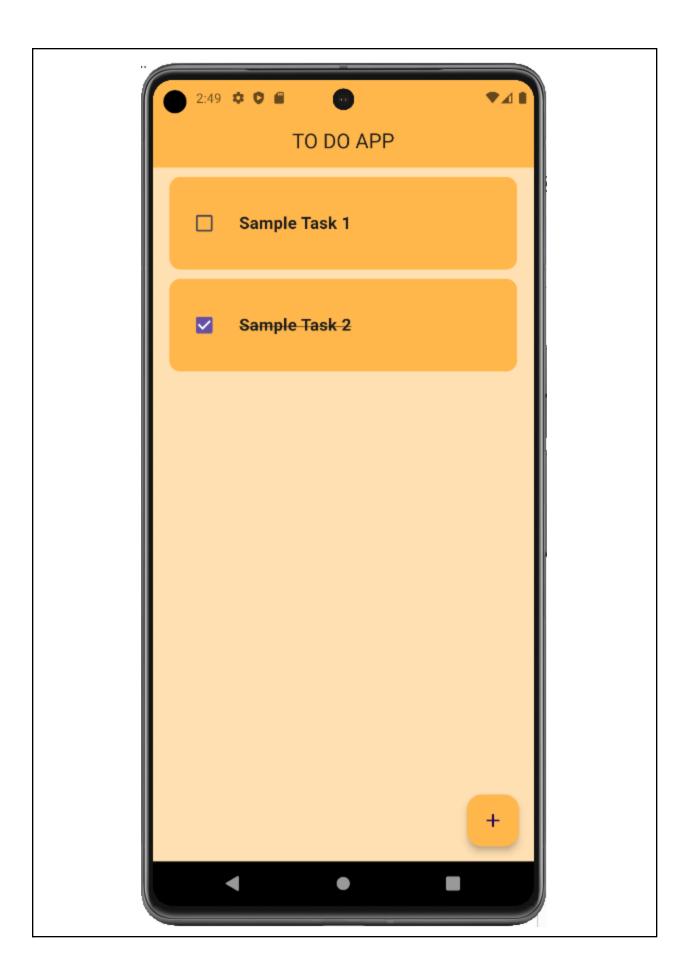
```
icon: Icons.delete,
backgroundcolor: ■Colors.red.shade300,
borderRadius: BorderRadius.circular(12),
) // SlidableAction
                                ), // ActionPane
child: SizedBox(
height: 100,
child: Container(
                                       decoration: BoxDecoration(
    color: □Colors.orange[300],
    borderRadius: BorderRadius.circular(12),
                                        ), // BoxDecoration child: Center(
                                               mainAxisAlignment: MainAxisAlignment.spaceEvenly,
                                                children: [
                                                    // Checkbox
SizedBox(
                                                      width: 25,
child: Checkbox(
value: taskCompleted,
                                                           onChanged: onChanged,
                                                     , // SizedBox
                                                    SizedBox(
width: 275,
child: Text(taskName,
                                                           style: TextStyle(
decoration: taskCompleted
? TextDecoration.lineThrough
: TextDecoration.none,
                    / Text
: Textb
fontsize:
fontweight:

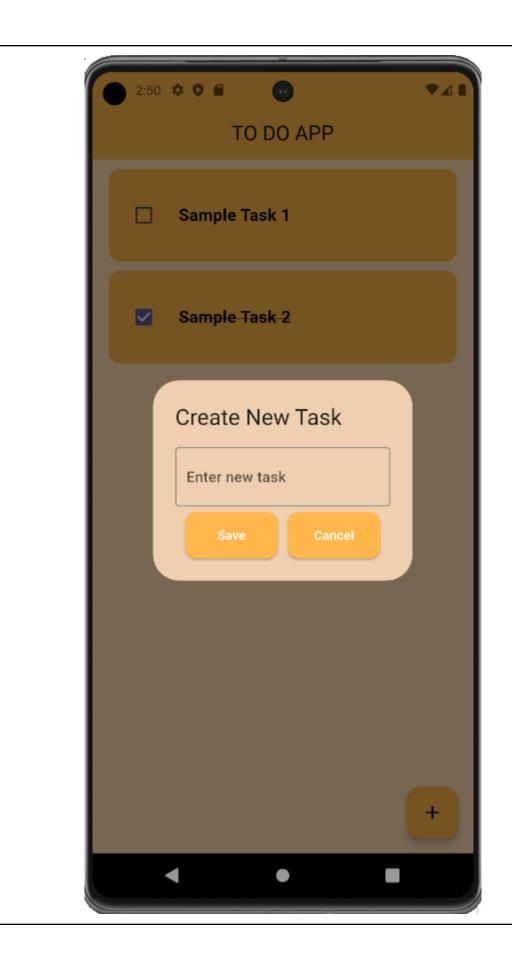
), // Textstyle
), // Text

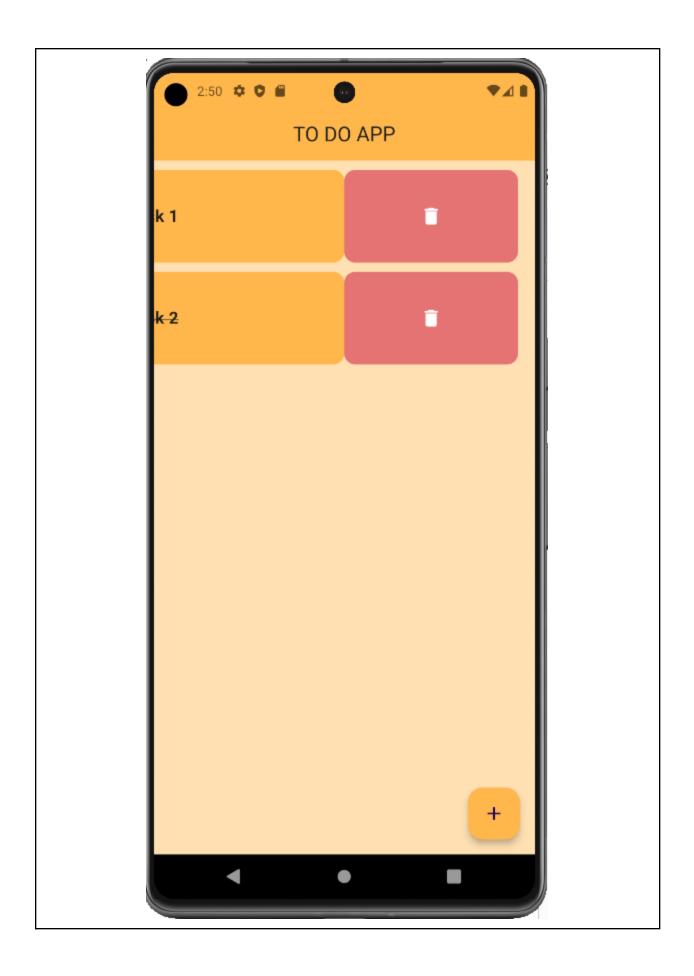
), // SizedBox
], // Center
), // Center
), // SizedBox
) // Slidable
); // Padding
                                                              fontSize: 18,
fontWeight: FontWeight.bold,
PAGES
to_do.dart
```

```
▶ Ш …
   nain.dart
                         ♦ to_do.dart × ♦ todo_tile.dart ♦ dialog_box.dart
                                                                                                       button.dart
                                                                                                                                database.dart
   lib > Pages > ♠ to_do.dart > ...
1 // ignore_for_file: prefer_const_constructors, sort_child_properties_last, unused_field
            import'package:flutter/material.dart';
import 'package:hive_flutter/hive_flutter.dart';
import 'package:no_shift/Utilities/dialog_box.dart';
import 'package:no_shift/Utilities/todo_tile.dart';
import 'package:no_shift/data/database.dart';
             class ToDo extends StatefulWidget {
  const ToDo({super.key});
               @override
               final _box = Hive.box('todo');
ToDoDatabase db = ToDoDatabase();
               goverride
void initState(){
    // check if this is the 1st time the app is opened
    if(_box.get("todoList") == null){
        db.createIntialData();
    }
}
DATA
database.dart
   nain.dart to_do.dart todo_tile.dart dialog_box.dart
                                                                                                       🌑 button.dart
                                                                                                                                database.dart X
                                                                                                                                                                                                                              ▶ Ⅲ …
   lib > data > 🌑 database.dart > ..
              // reference hive box
final _box = Hive.box('todo');
                todoList = _box.get("todoList");
              void updateDatabase(){
    _box.put("todoList", todoList);
}
```

Insert Images of Program Here







VI. MAINTENANCE

Apart from the barebones to-do list provided by the default program, the developers also plan to add other features such as (but not limited to):

- UI update to make it cleaner
- Edit task feature (such as reordering and task editing)
- Set deadlines using dates and notification
- A new page for note taking

VII. GANTT CHART

