

Updated on 22 April 2025

Assignment: Mobile App Development for SDGs (Implementation – Individual Work)

Objective:

- Students can develop a mobile application using Flutter framework according to the submitted design (from the group assignment)
- The app should demonstrate understanding of both stateful and stateless widgets, proper page layout using layout widgets, and page navigation concept.



Requirements Checklist

- ☐ **Pages:** App has at least two pages
- ☐ **Design:** Use Material Design components or widgets (e.g., AppBar, Text, Icon, Image, IconButton, ListView)
- ☐ **Widgets:** Includes both stateless and stateful widgets (including state change function)
- ☐ **Layout:** Uses layout widgets such as Column, Row, Container, Padding, etc.
- ☐ **Navigation:** Includes a navigation bar or drawer to switch between pages
- ☐ **Functionality:** App runs without errors and is responsive
- ☐ **Code Quality:** Code is well-structured and readable, with meaningful naming



Constraint:

- You must implement two pages based on your group's previous Figma design. The selected pages must be different from those implemented by other members of your group.
- **Add: You can choose any page except the Login, Logout, Alert, or Popup pages**



Submission Instructions:

- Submit a ZIP file containing your full Flutter project folder
 - Named your file as **ITCS424_Assignment_StudentID_Code.zip** format i.e., ITCS424_Assignment_6988000_Code.zip)
- Include a README file (see template on the next page)
 - Named your file as **ITCS424_Assignment_StudentID_README.pdf**
- Include a short video that demonstrates your application (at most 1 minute)
 - Named your file as **ITCS424_Assignment_StudentID_VIDEO.mp4**
- Deadline: 23 May 2025 at 5PM
- Submit via MyCourses

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Flutter App Assignment - README Template

Please complete the following information and include this file in your project submission.

Student Information

Name: _____

Student ID: _____

Section:

Pages Implemented

1. Page Name: _____

Description: What is the purpose or functionality of this page?

2. Page Name: _____

Description: What is the purpose or functionality of this page?

Features and Widgets Used

List important widgets, layout elements, and any Material Design components you used.

Known Issues or Limitations

Briefly describe any parts of the app that aren't working as expected or things you couldn't finish.

Reflection

1. What did you find most challenging about this project?

2. Which widgets or design elements are you most proud of using?

3. What would you add or improve with more time?

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Rubric 10 points

Criteria	Excellent (2)	Partial (1)	Needs Improvement (0)
Completeness	Two pages based on the design	Two pages, but not aligned with the design, or having only one page	Both pages are duplicates of another member's work
Widget Types and Functionality	Includes both stateless & stateful widgets with working state change, runs smoothly without errors	Both types were used, but with minimal or unclear use of state change, or contain some bugs	Only one widget type or no state functionality, or the app crashes
Components	Several usages of Material Design widgets, the layout widgets are organized and well-structured	Some usage of Material Design, but the layout is messy	Little to no use of Material Design widgets, the layout is poor or not functional
Navigation	The navigation is clear and working correctly	The navigation is not fully functional or intuitive.	Missing or broken navigation
Submission	Follow the instructions correctly and completely with good quality documentation	Follow the instructions correctly and completely	Do not follow the instructions