Assignment 7

Improve App Stability: Error Handling, Loading States, and Guest/User Access Control

Week: 8

Points: 15

Lecture Covered: Assets and Providers

Deadline: in Moodle

Defense: Individually

Submission: Continue in the same GitHub repo used for Assignment 6

Submit screenshots-only report

Objective:

Improve the existing app you built in Assignment 6 by adding:

- Proper error handling
- · Progress indicators during async operations
- Clear role-based behavior for guest vs authenticated user

This is not a separate project — just an improvement of the current app.

What You Must Add to Your Existing App:

- 1. Error Handling:
 - o Catch login/registration errors using try-catch
 - o Show meaningful error messages using:
 - SnackBar, AlertDialog, or inline widgets
 - o Handle invalid input (e.g., empty fields, weak password)
- 2. Progress Indicators:
 - o Show CircularProgressIndicator or similar while:
 - Logging in / registering
 - Communicating with Firebase
 - o Disable buttons during these operations
- 3. Prevent Duplicate Actions:
 - o Prevent users from clicking login/register buttons multiple times while loading
- 4. Guest vs User Access (Required Roles):
 - o If the user is not logged in (guest):
 - Hide or disable access to Profile, Settings, and other private areas
 - Show a message like "Please log in to access this feature" o If the

user is logged in:

Allow access to all features

- Guest trying to access restricted feature
- Logged-in user with full access
- Optional: third role in action (if added)
- Portrait and landscape layouts
- Screens from 3 different screen sizes

Submit:

- GitHub link (same repo as Assignment 6)
- Report file via LMS or by instructor's instructions