

# Pemrograman Mobile Cross Platform

## Ionic Components: Basics

### OVERVIEW

Finishing this module, students will be able to:

- Understand how to use basic Ionic Components using CDN
- Understand the main features in Visual Studio Code (the main code editor we will be using to develop Ionic apps in this course)

This module is divided into several parts. OVERVIEW explains the overall objective of this module and how to understand its contents. MATERIALS NEEDED and SOFTWARE REQUIREMENTS shows the requirements. ACTIVITIES section explains how to do various things, as explained in class. Finally, the TASK describes the tasks that students need to finish and get graded in the corresponding module.

### MATERIALS NEEDED / REFERENCES

- This module
- Materials from the class (PowerPoint slides, etc.) – *dari kelas teori*
- Ionic Framework Official Documentation

### SOFTWARE REQUIREMENTS

- Visual Studio Code
- Google Chrome

### ACTIVITIES

#### Using Ionic Components without Frameworks

1. Importing Ionic library from CDN (JS and CSS)
  - <https://ionicframework.com/docs/installation/cdn>
2. Check the Component documentation
  - <https://ionicframework.com/docs/components>
3. Using ion-header and ion-content
4. Using ion-card, ion-label, and ion-input
5. Core Component Types

- Output → `<ion-img>` | `<ion-label>` | `<ion-toast>`
  - Layout → `<ion-grid>` | `<ion-list>` | `<ion-card>`
  - Input → `<ion-button>` | `<ion-input>` | `<ion-datetime>`
6. Ionic Grid
    - Using grid, row, and col → size, offset
  7. CSS Utilities
    - `<div margin-vertical text-right>`
  8. Using controller components & async await in JavaScript
    - <https://alligator.io/js/async-functions/>
    - <https://ionicframework.com/docs/api/alert-controller>

## TASKS *(deadline today)*

1. Create two files in your project repository: index.html and app.js.
2. Create a responsive web page for adding and summing up personal expenses as shown below.

Budget Planner

Input Pengeluaran

Nama Pengeluaran

Jumlah Pengeluaran

× Hapus

+ Tambah

Makan siang: Rp. 25000,00

Uang tol: Rp. 15000,00

Total Pengeluaran : Rp. 40000,00

Budget Planner

Input Pengeluaran

Nama Pengeluaran

Terjadi Kesalahan

Mohon masukkan nama dan jumlah pengeluaran.

Tutup

Total Pengeluaran : Rp. 0,00

Budget Planner

Input Pengeluaran

Nama Pengeluaran

Jumlah Pengeluaran

X HAPUS

+ TAMBAH

Total Pengeluaran : Rp. 0,00

Budget Planner

Input Pengeluaran

Nama Pengeluaran

Jumlah Pengeluaran

+ TAMBAH

Terjadi Kesalahan

Mohon masukkan nama dan jumlah pengeluaran.

TUTUP

Total Pengeluaran