SESSION 8

Flask Dashboard

Data Science Program



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Flask Dashboard

Dashboard Preparation



THINGS SHOULD BE PREPARED



Preparation? Is that an important thing? Of Course, Yes

Dashboard will connect some file types, such as .py, .html, .css, and .csv

Data (D:) > Achmad Kurniansyah T > Purwadhika Coding School > Buat Materi > Dashboard > new_dashboard

First thing that should be prepared is these 1 file and two folder. One file to create API, One folder for styling and data, one folder for dashboard templates







PREPARATION 1: API FILE

new_dashboard



API files consist code of making router to access the data and also to create chart or anything that we want to show in dashboard.

```
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new_dashboard > 💠 app.py > ...
  1 # Flask : library utama untuk membuat API
      # render template : agar dapat memberikan respon file html
      # request : untuk membaca data yang diterima saat request datang
      from flask import Flask, render template, request
      # plotly dan plotly.graph objs : membuat plot
      import plotly
      import plotly.graph_objs as go
      # pandas : untuk membaca csv dan men-generate dataframe
      import pandas as pd
      import json
      from sqlalchemy import create_engine
      # untuk membuat route
      app = Flask( name )
      ## CATEGORY PLOT ##
      ## IMPORT DATA USING pd.read csv
 23 # IMPORT DATA USING pd.read sql
      def category_plot(
          cat plot = 'histplot',
          cat x = 'sex', cat y = 'total bill',
          estimator = 'count', hue = 'smoker'):
          # generate dataframe tips.csv
```

PREPARATION 2: STATIC FOLDER



Second thing that should be prepared is 'Static Folder'. This folder consist of the data file (tips.csv) and styling file (bootstrap.css). Styling file will be use bootstrap in order to make dashboard more responsive.

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PREPARATION 3: TEMPLATE FOLDER

This templates folder consist of every page that will be showed in every menu. There are 6 files below, means that there will 6 landing page in dashboard that created.





