LAPORAN AKHIR MATA KULIAH STRUKTUR DATA DAN ALGORITMA



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SAINS DATA

FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM

UNIVERSITAS NEGERI SURABAYA

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BABI

PENDAHULUAN

1.1 Latar Belakang

Saat ini, banyak industri yang telah menggunakan mesin-mesin canggih. Mesin sebagai komponen utama dalam proses produksi sangat penting untuk dijaga perawatan atau pemeliharannya. Dalam kegiatan industri, seringkali masalah akan timbul jika mesin, peralatan, dan aset lainnya tidak mendapatkan perawatan yang tepat (Wardhana, M.A.W., Pratama, K.D.P., dan Muryani, S., 2022). Oleh karena itu, pemeliharaan secara berkala dilakukan untuk mencegah terjadinya masalah tersebut. Apabila tidak terjaga, akan terjadi penurunan kinerja mesin yang akan menghambat proses produksi.

Di era yang sudah berkembang seperti saat ini, dibutuhkan aplikasi penjadwalan pemeliharaan mesin yang efisien dan fleksibel. Oleh karena itu, dibuatlah aplikasi "MachineCare" guna untuk menjadwalkan perawatan atau pemeliharaan mesin yang efisien dan fleksibel. Aplikasi ini dibuat dengan menggunakan bahasa pemrograman Python dan modul GUI yang terdapat pada Python. Selain itu, aplikasi ini menggunakan algoritma binary search dan bubble sort.

1.2 Rumusan Masalah

- 1. Bagaimana cara pemeliharaan mesin agar tidak terjadi kerusakan akibat kurang perawatan?
- 2. Bagaimana cara mencegah kerusakan mesin yang tidak terduga?

1.3 Tujuan

- 1. Untuk mengetahui cara pemeliharaan mesin dengan membuat aplikasi "MachineCare" yang menyediakan fitur penjadwalan perawatan mesin secara efisien dan fleksibel.
- 2. Untuk mengetahui cara mencegah kerusakan mesin yang tidak terduga dengan menggunakan aplikasi "MesinCare" melalui fitur pelacakan jadwal perawatan yang telah dilakukan serta jadwal perawatan yang akan datang.

1.4 Manfaaat

Aplikasi ini dibuat untuk membantu pengguna dalam melakukan pemantauan dan pelacakan terhadap jadwal perawatan yang telah dilakukan dan jadwal perawatan yang akan datang. Dengan demikian, pengguna dapat menghindari kerusakan mesin yang tidak terduga dan meningkatkan produktivitas dan efisiensi operasional mereka.

BAB II

LANDASAN TEORI

2.1 Perawatan atau Pemeliharaan

Perawatan atau pemeliharaan merupakan kegiatan yang diperlukan untuk menjaga atau mempertahankan kualitas dan kinerja mesin agar tetap berfungsi dengan baik seperti saat pertama kali dioperasikan (Ansori dan Mustajib, 2013 dalam Prihastono, E. dan Prakoso, B., 2017). Proses perawatan bertujuan untuk pencegahan guna mengurangi kerusakan peralatan dengan memastikan tingkat keandalan dan kesiapan yang optimal serta meminimalkan biaya perawatan (Prihastono, E. dan Prakoso, B., 2017). Oleh karena itu, perawatan atau pemeliharaan penting untuk dilakukan, jika terjadi kendala pada mesin maka proses produksi akan terhambat.

2.2 Python

Python merupakan bahasa pemrograman yang menyediakan struktur data tingkat tinggi dengan perancangann yang fokus pada keterbacaan kode agar sintaks lebih mudah dipahami (Aqmila, D., 2023). Python dapat digunakan secara bebas. Baris kode yang digunakan pada python lebih sedikit sehingga para pemula lebih mudah untuk memahaminya. Selain itu, struktur sintaks pada python mendekati bahasa manusia yang menjadikannya mudah untuk dipelajari.

2.3 GUI (Graphical User Interface)

GUI adalah sebuah antarmuka visual yang memungkinkan pengguna untuk berinteraksi dengan komputer dengan cara memberikan perintah melalui gambar tanpa perlu mengetik perintah tersebut (Mustakim, M., Fitrianingsih, N. and Fitriati, I., 2019). GUI terdiri dari widgets (button, menu, checkbox, dll). Modul GUI pada Python adalah tkinter.

2.4 Binary Search

Binary search merupakan pencarian data pada array yang sudah terurut. Jika array belum terurut, maka pencarian binary tidak dapat dilakukan. Binary search berguna untuk memperkecil jumlah operasi perbandingan, beban komputasi lebih kecil, dan melakukan proses pembagian ruang pencarian secara berulang-ulang (Darmawantoro, R.Y., Utami, Y.R.W., dan Kustanto, K., 2022).

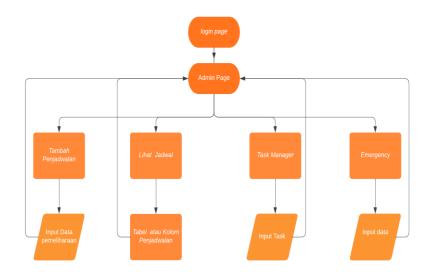
2.5 Bubble Sort

Bubble sort merupakan algoritma sorting yang mengambil nilai paling besar dan diletakkan di paling kanan dengan membandingkan elemen sekarang dan elemen berikutnya (Haryanda, dkk., 2023). Bubble sort termasuk algoritma sorting yang paling sederhana. Dalam proses pengurutan secara menaik (ascending), jika suatu elemen sekarang memiliki nilai yang lebih besar daripada elemen berikutnya, maka elemen tersebut akan ditukar posisinya. Sedangkan dalam pengurutan secara menurun (descending), jika suatu elemen sekarang memiliki nilai yang lebih kecil daripada elemen berikutnya, maka kedua elemen tersebut akan ditukar posisinya (Haryanda, dkk., 2023).

BAB III

DESAIN PROYEK

3.1 Diagram Alir



3.2 Rancangan System

• Login

Halaman login digunakan untuk masuk ke aplikasi. Di halaman login admin akan diminta untuk memasukan username dan password yang telah diberikan.

• Tambah Penjadwalan

Halaman penjadwalan digunakan untuk input beberapa data yang telah diisi oleh admin. Data akan tersimpan di file csv.

• Lihat Jadwal

Halaman lihat jadwal digunakan untuk melihat jadwal berdasarkan waktu terdekat atau waktu terjauh, mencari jadwal, dan menghapus janji temu di tabel.

Task Manager

Halaman task manager digunakan untuk membuat daftar tugas, mengelola tugas untuk mekanik, dan mencari tugas.

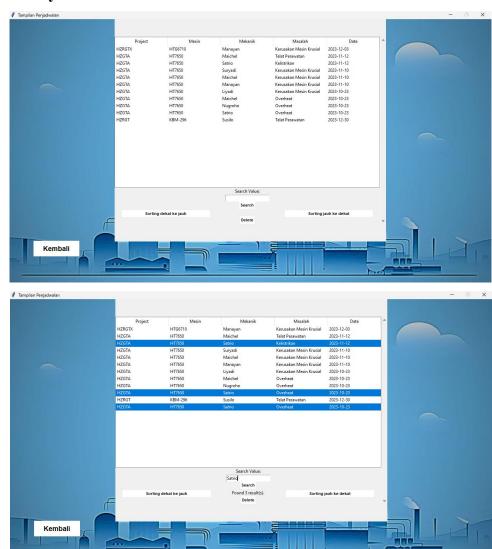
Emergency

Halaman emergency digunakan untuk memanggil mekanik dan otomatis memasukkan data janji temu ke data penjadwalan secara real time.

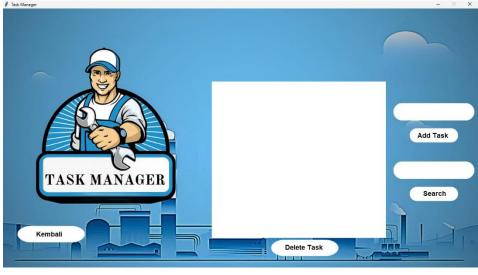
BAB IV

IMPLEMENTASI

4.1 Binary Search



Penggunaan algoritma binary search pada fitur lihat jadwal.





Penggunaan algoritma binary search pada fitur task manager.

4.2 Bubble Sort



Penggunaan algoritma bubble sort pada fitur lihat jadwal untuk sorting berdasarkan waktu terdekat dan waktu terjauh.

KESIMPULAN

Aplikasi "MachineCare" merupakan solusi efisien dan fleksibel untuk menjadwalkan perawatan atau pemeliharaan mesin. Aplikasi ini dibuat dengan menggunakan bahasa pemrograman Python dan modul GUI tkinter. Selain itu, aplikasi ini juga menggunakan algoritma binary search dan bubble sort yang memungkinkan pengguna untuk melacak jadwal perawatan yang telah dilakukan dan jadwal perawatan yang akan datang. Dengan pemeliharaan yang baik, diharapkan penurunan kinerja mesin dapat dihindari. Dalam pengembangannya, aplikasi "MachineCare" dapat terus dikembangkan dengan menambah fitur-fitur lain yang lebih relevan guna untuk mendukung kegiatan industry dalam menjaga kinerja mesin.

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- Darmawantoro, R.Y., Utami, Y.R.W. and Kustanto, K., 2022. Implementasi Binary Search Untuk Data Obat di Apotek. Jurnal Teknologi Informasi dan Komunikasi (TIKomSiN), 10(1), pp.76-84.
- Haryanda, H., Nasution, M.F., Hutabarat, D., Razzaq, A. and Syahputra, A., 2023. Implementasi Metode Bubble Sort pada Aplikasi Pencarian Rute Berdasarkan Jarak Tempuh Transportasi Umum. Blend Sains Jurnal Teknik, 1(3), pp.213-219.

LAMPIRAN

Lampiran 1. User Manual

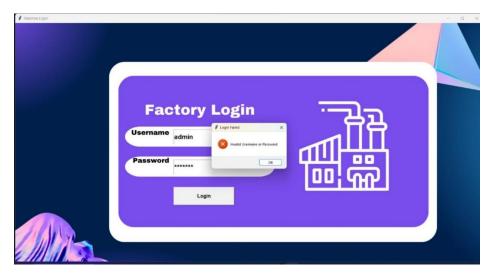
1. Halaman Login



Halaman login digunakan untuk admin masuk ke dalam aplikasi dengan memasukkan username dan password yang telah diberikan.



Setelah admin memasukkan username dan password dengan benar. Maka, login dinyatakan berhasil dengan munculnya notifikasi "Welcome Admin!".



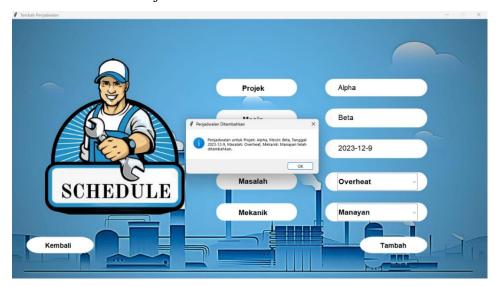
Jika username dan password yang dimasukkan salah, maka akan muncul notifikasi "Invalid Username or Password".

2. Halaman Admin



Jika login berhasil, halaman akan beralih ke halaman admin. Di halaman admin terdapat 4 fitur pilihan, yaitu tambah penjadwalan, lihat jadwal, task manager, dan emergency.

3. Halaman Tambah Penjadwalan

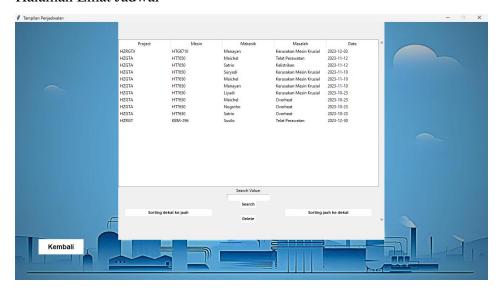


Di halaman tambah penjadwalan terdapat beberapa data yang harus diisi oleh pengguna. Data-data tersebut akan tersimpan di file csv yang telah tersedia.



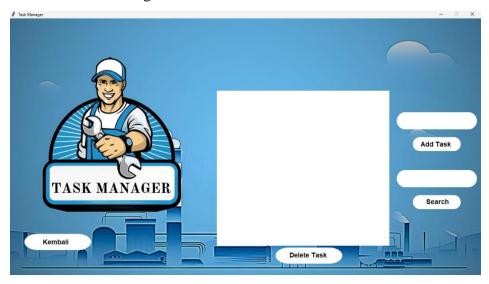
Jika admin tidak melengkapi data-data yang telah diberikan, maka akan muncul peringatan.

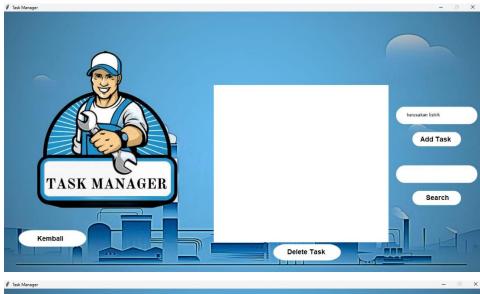
4. Halaman Lihat Jadwal



Pada halaman lihat jadwal, pengguna dapat melihat jadwal berdasarkan waktu terdekat atau waktu terjauh dan bisa mencari jadwal. Selain itu, pengguna juga dapat menghapus jadwal yang ada di tabel.

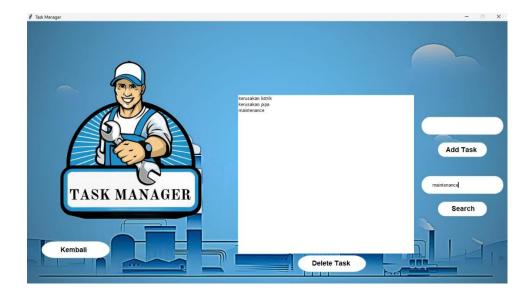
5. Halaman Task Manager





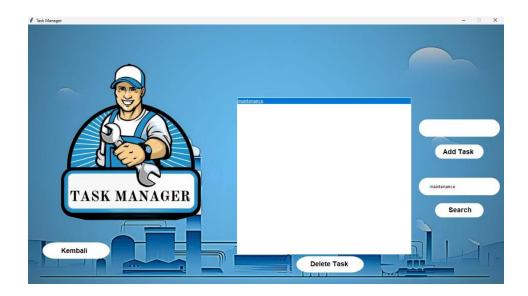


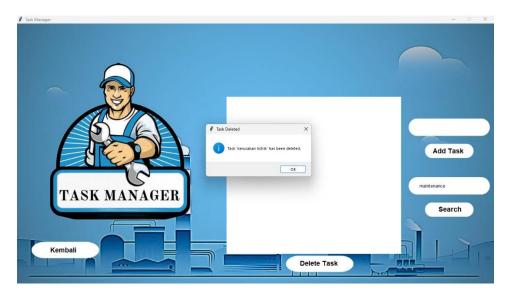
Pada halaman task manager, pengguna bisa membuat daftar tugas.





Selain menambahkan tugas, pengguna juga bisa mencari tugas yang telah ditambahkan sebelumnya.



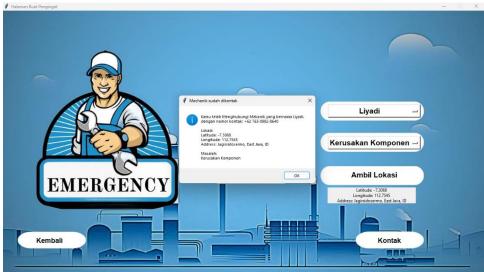


Selain menambahkan tugas dan mencari tugas, fitur task manager juga dapat menghapus tugas yang telah ditambahkan.

6. Halaman Emergency







Pada halaman emergency, pengguna diminta memasukkan data-data untuk membuat janji dengan mekanik. Pengguna juga dapat menghubungi mekanik tersebut.

Lampiran 2. Listing Code

```
import tkinter as tk
from tkinter import ttk
from PIL import ImageTk, Image
from tkinter import messagebox
from datetime import datetime
import csv
import time
import threading
import winsound
import openpyxl
import os
import geocoder
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self_background_label = tk.Label(self.root, image=self.background_image)
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                         self-machine label - tk.iabel(self-most, bg-"ffff", text-"Mosin", font-("Melvetica", 16, "bold"))
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                           self.date_label = tk.label(self.root, bg="sfff", text="langgal", font=("Melvetica", 16, "bold"))
self.date_label.place(sesMe, y=3%, width=170, belgn=40)
self.date_enty = tk.intryce(sfr.cot, be="sfff", label[gnt=40)
self.date_enty = tk.intryce(sfr.cot, be="sfff", label[gnt=40]
self.date_enty_place(sep3, y=340, width=240, belght=30)
self.date_enty_place(sep3, y=340, width=240, belght=30)
self.date_enty_place(sep3, date_entry)
self.add_watermark_effect(self.date_entry)
                           osts.macalah_lahel = Nk.lahel(colt.nont, nge"strf", text="Mocalah", font=("Gelvetica", 16, "hold"))
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     def add_watermark_effect(self, entry):
    entry.insert(0, entry.placeholder)
    entry.configure(foreground="#999", font=("Helvetica", 16, "italic"))
     def on_entry_focus_in(self, entry):
    if entry_get() == entry_laceholder:
    entry_delete(0, tk.180)
    entry_conf|gare(foreground="a000", fent=("Helvetica", 16, "normal"))
def on_entry_focus_out(salf, entry):
    if entry_pet() = "":
    entry_out() = "":
    entry_out() = foreign entry_olaceholder)
    entry_configure(foreground="0909", fente("Holvetica", 16, "italic"))
  def create add button(self):
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self.add_button.place(x-1830, y-630, xidth=180, height=40)
     def ad_icheoule(self):
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```

```
self.label_problem = tk.label(self.roof, text="Pilih Masalah",bg="white", font=("Helvetica", 16, "bold"))
self.label_problem.place(x=000, y=355,xidth=200, height=70)
                            self.get_location_button = tk.Button(self.root, relief= "fiat", activebackground= "white", borderwidth=0,text="Ambil Lokasi", command=self.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get_location.bgt.get
def create_background(self):
    self.background image - lange(k.Photolange(image.open("emergency.fof"))
    self.background label = tk.label(self.root, image-self.background_image)
    self.background_label.place(x=0, y=0, reheidth=1, relbeight=1)
                         if g.om:
    sattonoe = g.inting[8]
    longitude = g.inting[1]
    address - g.address
    self-focaline_info_counfig(feet=flaiflude: {taiflude})uning[flude: {tong[flude}]unkdiress: {address}^*)
    else_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_address_flow_add
                 else:
messagebox.showarning("Lokasi error", "Gagal mengambil informasi lokasi.")
except bxception as e:
messagebox.showerror("Lokasi error", "Gagal mengambil informasi lokasi.")
Coef go_Dack(celf):

self_noot.destroy() # Tutup halaman buat pengingat

admin_root = kk.lk()

admin_page = AdminPage(admin_root)

admin_root.moinloop()
```

```
volf-delete_buttom = it.Bullon(volf-rout, rollefs "file", jq."6fff, atliebakground="dilie", herdervidibe#, jext="Delete Tost", font-("deletios", 16, "dols"), commend-volf-delete_buts solf-file path = 0.5245.5dn(0.524504), "EBSS.TEX") # Set the file path solf-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-delete_buts-path-de
                                     ## 300 tab((pil))

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its off-ind, shark, appendixes)

soff-(sast.ind, shark)

soff-ind, lithout, mnert(shark, mpa; dalm define secara alfabetis

soff-ind, lithout, mnert(shark, mpa;

soff-ind, cathy, delete(), th.500)

soff-ind, cathy, delete(), th.500)
                                     ty)

stylengen("casts.txt", "") as file:
    saf-tasks = (lim.strip() for line in file.readines()]
    saf-tasks.sor() = frequention tops data safes seems alighetis
    top of task.sor() = frequention tops data safes seems alighetis
    safe (line.line.insert(d.dmc, task)
    seems (line.line.insert(d.dmc, task)
                                           root = tk.Tk()
login_page = LoginPage(root)
root.mainloop()
```