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"""
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"""

import sys
import tkinter as tk
from tkinter import ttk
from tkinter import messagebox

import bcrypt

from user_record import UserRecord
from task_record import TaskRecord
from database import Database
from gui_states import GUIStates

class UserInfo:

    def __init__(self, root, db):
        self.frame = tk.Frame(root)
        self.line_canvas = tk.Canvas(self.frame, width=800, height=800, bg="white",
highlightthickness=0)
        self.db = db
        self.user = UserRecord() # stores the user that we are currently displaying
the information of, currently blank but gets set in self.show(...)

    def init_resources(self):
        style = ttk.Style()
        style.theme_use('clam')

        # Title Label
        style.configure("TitleLabel.TLabel", font=("Segoe UI", 20, "italic"))

        style.configure("HeaderLabel.TLabel", font=("Segoe UI", 12, "italic"))

        # Field Labels
        style.configure("FieldLabel.TLabel", font=("Segoe UI", 10), foreground="#444
", background="white")

        # Field Entry
        style.configure("Field.TEntry", font=("Segoe UI", 7), padding=10)

        # Info Buttons
        style.configure("Info.TButton", font=("Segoe UI", 7), padding=10)

        # Action Buttons
        style.configure("Action.TButton", font=("Segoe UI", 10), padding=10)

        # Delete Buttons
        style.configure("Delete.TButton", font=("Segoe UI", 20), padding=10, backgro
und="#d32f2f")

        ttk.Label(self.frame, text="Account Info", style="TitleLabel.TLabel").place(
x=400, y=30, anchor="center")

        # change name

        ttk.Label(self.frame, text="Change Name", style="HeaderLabel.TLabel").place(
x=20, y=60)

        ttk.Label(self.frame, text="Name:", style="FieldLabel.TLabel").place(x=100,
y=125)
        self.name_ent = ttk.Entry(self.frame, style="Field.TEntry")
        self.name_ent.place(x=100, y=150)

        ttk.Button(self.frame, text="Save", command=self.change_name, style="Info.TB
utton").place(x=100, y=225, width=150, height=50)
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    # change credentials

    ttk.Label(self.frame, text="Change Credentials", style="HeaderLabel.TLabel")
    .place(x=20, y=350)

    ttk.Label(self.frame, text="Username:", style="FieldLabel.TLabel").place(x=1
00, y=400)
    self.username_ent = ttk.Entry(self.frame, style="Field.TEntry")
    self.username_ent.place(x=100, y=425)

    ttk.Label(self.frame, text="New Password:", style="FieldLabel.TLabel").place
(x=100, y=500)
    self.password_ent = ttk.Entry(self.frame, style="Field.TEntry")
    self.password_ent.place(x=100, y=525)

    ttk.Label(self.frame, text="Old Password:", style="FieldLabel.TLabel").place
(x=100, y=600)
    self.old_password_ent = ttk.Entry(self.frame, style="Field.TEntry")
    self.old_password_ent.place(x=100, y=625)

    ttk.Button(self.frame, text="Save", command=self.change_credentials, style="
Info.TButton").place(x=100, y=700, width=150, height=50)

    # buttons for action

    ttk.Button(self.frame, text="Goto Task Browser", command=self.goto_task_brow
ser, style="Action.TButton").place(x=500, y=80, width=225, height=100)
    ttk.Button(self.frame, text="Logout", command=self.logout, style="Action.TBu
tton").place(x=500, y=280, width=225, height=100)
    ttk.Button(self.frame, text="Quit App", style="Action.TButton", command=lamb
da:sys.exit(0)).place(x=500, y=466, width=225, height=100)
    ttk.Button(self.frame, text="Delete Account", command=self.delete_user, styl
e="Delete.TButton").place(x=500 - 8, y=650, width=240, height=100)

    def show(self, id):
        self.clear_entries()
        self.user = self.db.users_get_record_by_id(id)
        self.name_ent.insert(0, self.user.name)
        self.username_ent.insert(0, self.user.username)
        self.line_canvas.place(x=0, y=0)
        self.frame.place(x=0, y=0, width=800, height=800)

        self.line_canvas.create_line(400, 75, 400, 800, fill="black", width=5)

    def delete_user(self):
        result = messagebox.askquestion("Account Deletion Confirmation", "Are you su
re that you would like to delete your account?")
        if (result != "yes"):
            return

        self.db.users_delete(self.user.id)
        self.goto_login()

    def change_credentials(self):
        result = messagebox.askquestion("Change Credentials Confirmation", "Are you
sure that you would like to update your credentials?")
        if (result != "yes"):
            return

        old_password = self.old_password_ent.get()
        hashed_old_password = bcrypt.hashpw(old_password.encode(), b'$2b$12$zm4/D56N
tli/hWPKnmLSgu').decode("utf-8")

        if (hashed_old_password != self.user.hashed_password):
            tk.messagebox.showerror("Failed to change credentials", "Old Password is
Incorrect")
            return

        password = self.password_ent.get()
        hashed_password = bcrypt.hashpw(password.encode(), b'$2b$12$zm4/D56Ntli/hWPK
nmLSgu').decode("utf-8")

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        record = UserRecord()
        record.fill(id=self.user.id, name=self.name_ent.get(), username=self.username_ent.get(), hashed_password=hashed_password)
        self.db.users_update(record)
        self.user = self.db.users_get_record_by_id(self.user.id)
        self.update_entries()
        tk.messagebox.showinfo("Successfully Updated Credentials", "Successfully Updated Credentials")

    def change_name(self):
        record = UserRecord()
        record.fill(id=self.user.id, name=self.name_ent.get(), username=self.user.username, hashed_password=self.user.hashed_password)
        self.db.users_update(record)
        tk.messagebox.showinfo("Successfully Updated Name", "Successfully Updated Name")

        self.user = self.db.users_get_record_by_id(self.user.id)
        self.update_entries()

    def update_entries(self):
        self.clear_entries()
        self.name_ent.insert(0, self.user.name)
        self.username_ent.insert(0, self.user.username)

    def clear_entries(self):
        self.name_ent.delete(0, "end")
        self.username_ent.delete(0, "end")
        self.password_ent.delete(0, "end")
        self.old_password_ent.delete(0, "end")

    def logout(self):
        self.goto_login()

    def goto_login(self):
        self.hide()
        self.show_map[GUIStates.LOGIN_USER]()

    def goto_task_browser(self):
        self.hide()
        self.show_map[GUIStates.TASK_BROWSER](self.user.id)

    def hide(self):
        self.line_canvas.place_forget()
        self.frame.place_forget()

    def assign_show_map(self, show_map):
        self.show_map = show_map
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