HospitalRecord App +patients: dict +root: tk +login_frame: tk.Frame +__init__() +username_label: tk.Label +add_patient_record(patient_data) +username_entry: tk.Entry +generate_visit_id() +password_label: tk.Label +delete_patient_record(patient_id) +password_entry: tk.Entry +retrieve_patient(patient_id) +login_button: tk.Button +count_visits(date) +patients_frame: tk.Frame +generate_statistics() +__init__(root) +login() +validate_credentials(username, password) **Patient** +get_user_role(username) +show_main_menu() -patient_id: string +retrieve_patient() -gender: string +format_patient_info(patient_info) -race: string +add_patient() -age: integer +remove_patient() -ethnicity: string +count_visits() -insurance: string +generate_statistics() -zip_code: string +log_usage(username, user_role, action, timestamp) -visits: list +load_patients(filename) +save_patient_info(filename) +__init__(patient_id, gender, race, age, ethnicity, insurance, zip_code) +add_visit(visit) +remove_visit(visit_id) +get_patient_info()