**Payroll System**

**Payroll system that manage:**

* Employee records
* Time tracking
* Payroll calculation
* Tax deductions
* Secure access for Admins and Employees

**Algorithms Used:**

* Age validation: Check DOB to ensure employee is 18+
* Time entry logic:

Overtime if over 8 hours/day or any Saturday hours

* Gross pay calculation:

Hourly = hours × rate (+ overtime)

Salary = fixed weekly amount (PTO only added manually)

* Deductions (pre-tax):

Medical: $50 (single) / $100 (family)

Dependents: $45 per dependent

* Tax calculations: State Tax (3.05%), Federal Tax (7.65%), Social Security (6.2%),Social Security (6.2%)

**Security:**

For Security there is a login for admins and employees.

Admins have more access than employees

**Standard Libraries:**

Python and datetime libraries were used