Project Estimation Calculations

Total Hours

- Total minimum hours:

$$H_{min} = \sum_{i=1}^{n} h_{min_i}$$

- Total maximum hours:

$$H_{max} = \sum_{i=1}^{n} h_{max_i}$$

  where h_{min_i} and h_{max_i} are the minimum and maximum hours for phase i.

Price Range

- Minimum price (rounded to nearest 5):

$$P_{min} = \left\lfloor \frac{H_{min} \times R_{min}}{5} \right\rceil \times 5$$

- Maximum price (rounded to nearest 5):

$$P_{max} = \left\lfloor \frac{H_{max} \times R_{max}}{5} \right\rceil \times 5$$

  where:

  - R_{min} = minimum hourly rate
  - R_{max} = maximum hourly rate

Timeline Estimation

- Minimum weeks (best case):

$$W_{min} = \left\lfloor \frac{H_{min}}{H_{weekly\_max}} \right\rceil$$

- Maximum weeks (worst case):

$$W_{max} = \left\lfloor \frac{H_{max}}{H_{weekly\_min}} \right\rceil$$

  where:

  - H_{weekly_min} = minimum weekly hours
  - H_{weekly_max} = maximum weekly hours