



Green University

ASSIGNMENT

CASE STUDY 01

Section : DC-221

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To determine the Optimal Price and achieve a Revenue target of \$5000,000 in the first year of operation, we need to consider the Cost per Unit, Competition Pricing and the Price elasticity of demand.

Given the Competition Prices ranging from \$1.99 to \$4.99, it's important to position the flagship Product competitively while maximizing profitability. The cost per unit for producing and maintaining the APP is \$0.50.

Considering the Price elasticity of demand with an elasticity coefficient of -2, a 1% increase in Price leads to a 2% decrease in quantity demanded. This indicates that demand is relatively elastic, and Pricing decisions need to carefully balance Price and Quantity.

To achieve the revenue target, we can calculate the number of units needed to be sold using the formula :

$$\text{Revenue} = \text{Price} \times \text{Quantity}$$

Given the revenue target of \$5,000,000, we can rearrange the formula -

$$\text{Quantity} = \text{Revenue} / \text{Pricing}$$

Now let's consider different Price Points and calculate the resulting Quantity demanded :-

Price : \$1.99

Quantity : $\$5,000,000 / \$1.99 \approx 2,512,563$ units

Price : \$2.99

Quantity : $\$5,000,000 / \$2.99 \approx 1,672,239$ units.

Price : \$3.99

Quantity : $\$5,000,000 / \$3.99 \approx 1,253,133$ units.

Price : \$4.99

Quantity : $\$5,000,000 / \$4.99 \approx 1,002,004$ units

To maximize Profitability, we need to find a Price that balances the trade-off between maximizing the quantity demanded and maximizing the profit margin per unit. Considering the cost per unit of \$0.50, let's calculate the Profit per unit for each Price:

Price : \$ 1.99

$$\text{Profit per unit} = \$1.99 - \$0.50 = \$1.49$$

Price : \$ 2.99

$$\text{Profit per unit} = \$2.99 - \$0.50 = \$2.49$$

Price : \$ 3.99

$$\text{Profit per unit} = \$3.99 - \$0.50 = \$3.49$$

Price : \$ 4.99

$$\text{Profit per unit} = \$4.99 - \$0.50 = \$4.49$$

Considering the analysis, it appears that a price of \$ 2.99 offers a reasonable balance between maximizing the quantity demanded and maximizing the profit margin per unit. This price allows for a relatively high quantity demanded (167,223) units while maintaining a healthy profit margin ~~\$2.49~~ \$2.49 per unit.

By selling approximately 167,223 units at a price of \$ 2.99, TechConnect can achieve the revenue target of \$5,000,000 in the first year of operation.