

## Chapter 3 (Feasibility Study)

### Technical feasibility:

- **Human Resources:**

<u>Title</u>	<u>Quantity</u>	<u>Monthly Salaries</u>	<u>Annual Salary</u>
Project Manager	2	14,000.00	336,000.00
Workforce Analyst	1	11,000.00	132,000.00
Marketing Specialist	1	8,000.00	96,000.00
Database Developer	1	9,000.00	108,000.00
Designer	2	8,000.00	192,000.00
Programmer	3	8,000.00	288,000.00
Scheduling Coordinator	1	10,500.00	126,000.00
HR Administrator	2	8,500.00	204,000.00
<b><u>Total</u></b>		<b><u>77,000.00</u></b>	<b><u>1,482,000.00</u></b>

- **Hardware:**

	<u>Quantity</u>	<u>Cost per unit</u>	<u>Total cost</u>
Dell Optiplex desktop	5	26,900.00	134,500.00
HP EliteBook Laptop	4	57,999.00	231,996.00
Printer	2	4,500.00	9,000.00
Scanner	2	5,000.00	10,000.00
Epson Projector	2	45,000.00	90,000.00
<b><u>Total</u></b>		<b><u>139,399.00</u></b>	<b><u>475,496.00</u></b>

- **Software:**

	<u>No. of years</u>	<u>License price</u>
Vs code	5	12,000.00
Net beans	5	10,000.00
Microsoft SQL Server	5	80,000.00
project management	5	18,000.00
Microsoft Office 365	5	12,000.00
XAMPP server	5	15,000.00
Android studio	5	10,000.00
Visio	5	15,000.00
<b><u>Total</u></b>		<b><u>172,000.00</u></b>

- **Utilities and other Expenses:**

<u>Expenses</u>	<u>Monthly</u>	<u>Annual</u>
<b>Utilities</b>		
Telephone bills	1200	14,400.00
Electricity	2000	24,000.00
Cloud Storage & Hosting	2200	26,400.00
<b><u>Total</u></b>	<b><u>3,200.00</u></b>	<b><u>64,800.00</u></b>
<b>Other Expenses</b>		
Rent	5000	60,000.00
Internet	650	7,800.00
Training & Development	3000	36,000.00
Software Subscription	2300	27,600.00

Legal fees	1500	18,000.00
Marketing & Advertising	3000	36,000.00
Consulting Fees	2500	30,000.00
Email set up	600	7,200.00
<b><u>Total</u></b>	<b><u>18,550.00</u></b>	<b><u>222,600.00</u></b>

**Total investments                      2,352,096.00**

### Economic feasibility:

- Cost Benefit Analysis:**

<b><u>Discount rate</u></b>	<b><u>7%</u></b>					
	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	Total
Costs	2,352,096.00	500,000	500,000	500,000	500,000	
Discount Factor	1	0.93	0.86	0.80	0.75	
<b>Discounted Costs</b>	2,352,096	465,000	432,450	402,179	374,026	4,025,751
Benefits	0	1,720,000	2,100,000	2,200,000	2,350,000	
Discount Factor	1	0.93	0.86	0.80	0.75	
<b>Discount Benefits</b>	0	1,599,600	1,816,290	1,769,585	1,757,922	6,943,398
<b>Discounted Benefits</b>						
<b>- Costs</b>	(2,352,096.00)	1,134,600	1,383,840	1,367,407	1,383,896	<b>2,917,647</b>
<b>Cumulative</b>						
<b>Benefits - Costs</b>	(2,352,096.00)	(1,217,496.00)	<b>166,344.00</b>	1,533,750.90	2,917,647.12	

**Payback period=            1.88**

- **Income statement:**

	Year 1	Year 2	Year 3	Year 4	Year 5
<b>Revenue</b>					
Enterprise plan	1,000,000	1,150,000	1,280,000	1,410,000	1,580,000
Pro plan	950,000	1,100,000	1,250,000	1,350,000	1,550,000
Basic plan	700,000	850,000	1,000,000	1,100,000	1,220,000
<b>Total Net Revenue</b>	<b>2,650,000</b>	<b>3,100,000</b>	<b>3,530,000</b>	<b>3,860,000</b>	<b>4,350,000</b>
<b>Expenses</b>					
Salaries	1,150,000	1,220,000	1,400,000	1,540,000	1,700,000
Software	172,000	177,000	182,000	190,000	205,000
Hardware	475,496	-	-	-	-
Utilities	64,800	70,000	73,000	77,000	82,000
Other Expenses	222,600	230,000	235,000	242,000	250,000
<b>Total Expenses</b>	<b>2,084,896</b>	<b>1,697,000</b>	<b>1,890,000</b>	<b>2,049,000</b>	<b>2,237,000</b>
Net Income before Taxes	565,104	1,403,000	1,640,000	1,811,000	2,113,000
Income Tax expense (20%)	416,979	280,600	328,000	362,200	422,600
<b>Net Income</b>	<b>148,125</b>	<b>1,122,400</b>	<b>1,312,000</b>	<b>1,448,800</b>	<b>1,690,400</b>

- **Cash Flow:**

Total initial budget                      1500000  
Total duration:                                5 year

	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5
<b><u>Cash in</u></b>	1,500,000	2,650,000	3,100,000	3,530,000	3,860,000	4350000
<b><u>Cash out</u></b>						
Salaries	1,150,000	1,150,000	1,220,000	1,400,000	1,540,000	1,700,000
Hardware	475,496.00	475,496	-	-	-	-
Software	172,000.00	172,000	177,000	182,000	190,000	205,000
Utilities	48,000.00	64,800	70,000	73,000	77,000	82,000
Expenses	154,200.00	222,600	230,000	235,000	242,000	250,000
<b><u>Total cash out-flows</u></b>	1,999,696.00	2,084,896.00	1,697,000.00	1,890,000.00	2,049,000.00	2,237,000.00
<b><u>Net cash flow</u></b>	<b><u>(499,696.00)</u></b>	<b><u>565,104.00</u></b>	<b><u>1,403,000.00</u></b>	<b><u>1,640,000.00</u></b>	<b><u>1,811,000.00</u></b>	<b><u>2,113,000.00</u></b>

### Legal feasibility:

The no illegal for workforce management system in Egypt. In general, the utilization of workforce management system in Egyptian law is legal, but certain activities can be illegal if they trespass on any local legislation. The most common violations include unauthorized data collection without employees' consent, excessive monitoring, invasion of privacy, and violations of labor laws related to working hours and overtime, discrimination in schedules or assessment, and interference with union activities. Businesses should, therefore, pay special attention to the provision for ensuring that WMS features comply with Egypt's labor regulations and data protection laws on a just and fair basis for all.