

## Assignment – 2

1.

System Request for Employee Management System	
<b>Project Sponsor</b>	Mr. Edward
<b>Business Need</b>	<p>This project has been initiated to make employee use their information, along with the follow features:</p> <ul style="list-style-type: none"><li>• All the salary, increment, bonus and annual appraisal will be conducted online</li><li>• The employee leaves and other physical resources will be managed online</li><li>• Most of the information could be managed automatically and quickly</li></ul>
<b>Business Requirements</b>	<p>All the manual strategies would be available online with the particular features:</p> <ul style="list-style-type: none"><li>• The employees would be able to sign up and login in and out both inside and outside the company</li><li>• The employees would be able to receive notification whenever their salary is provided.</li><li>• Employees would be able to transfer their online to their account through online</li><li>• The employees would be able to update their daily progress.</li></ul>
<b>Business Value</b>	<p>It would motivate the employees to shift to online and also make them comfortable with IT technologies.</p> <p>Along with that:</p> <ul style="list-style-type: none"><li>• The company's online would be able to receive more business proposals due to the online system</li><li>• There would be reductions in staff and inventory</li><li>• The employers would be updated with the latest technologies</li><li>• The communications charges would be saved as the employee can communication online</li></ul>
<b>Special Issues or Constraints:</b>	The system should be in place before the Pahela Baishakh .

2. Considering the above scenario, now Mr. Edward needs to develop the cost value analysis for the new IS project. He wants at least 4 years economic analysis.

Year	2020	2021	2022	2023	Total
Development Server	50000.00				
Application Development Team salary	250000.00				
Software License	25000.00				
Router	4000.00				
<b>Total Dev Cost</b>	<b>329000.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	
Hosting Server	5000.00	5000.00	5000.00	5000.00	
Domain Name Server	4000.00	5000.00	5000.00	5000.00	
Maintenances	18000.00	18000.00	20000.00	20000.00	
Operational Team Salaries	35000.00	35000.00	38000.00	38000.00	
Payment gateway	7000.00	7000.00	7000.00	7000.00	
<b>Total Operational Cost</b>	<b>69000.00</b>	<b>70000.00</b>	<b>75000.00</b>	<b>75000.00</b>	
<b>Profit Rate</b>	5%				
<b>Total Cost</b>	<b>398000.00</b>	<b>70000.00</b>	<b>75000.00</b>	<b>75000.00</b>	
<b>PV of Total Costs</b>	<b>379047.62</b>	<b>63492.06</b>	<b>64787.82</b>	<b>61702.00</b>	<b>569029.50</b>
<b>PV of all Costs</b>	<b>379047.62</b>	<b>442539.68</b>	<b>507327.5</b>	<b>569029.5</b>	
Increase in Efficiency	50000.00	60000.00	70000.00	70000.00	
Profit earned by removing unnecessary employees	300000.00	350000.00	350000.00	400000.00	
<b>Total Benefit</b>	<b>350000.00</b>	<b>410000.00</b>	<b>420000.00</b>	<b>470000.00</b>	

<b>PV of Total Benefit</b>	<b>333333.33</b>	<b>371882.09</b>	<b>362811.79</b>	<b>386670.16</b>	<b>1454697.37</b>
<b>PV of all Benefit</b>	<b>333333.33</b>	<b>705215.42</b>	<b>1068027.21</b>	<b>1454697.37</b>	
<b>Yearly Profit (benefit – cost)</b>	<b>(48000.0)</b>	<b>340000.00</b>	<b>345000.00</b>	<b>395000.00</b>	<b>1032000.00</b>
<b>Cumulative Cash Flow</b>	<b>(48000.0)</b>	<b>292000.0</b>	<b>637000.00</b>	<b>1032000.00</b>	
<b>Yearly NPV</b>	<b>(45714.29)</b>	<b>308390.03</b>	<b>298023.97</b>	<b>324968.16</b>	<b>885667.87</b>
<b>Cumulative NPV</b>	<b>(45714.29)</b>	<b>262675.74</b>	<b>560699.71</b>	<b>885667.87</b>	
<b>ROI</b>	<b>156%</b>				
<b>BEP</b>	<b>1.15</b>				

**ROI = (Total benefits – Total costs)/Total costs**

**= (1454697.37 - 569029.50)/ 569029.50**

**= 156%**

**BEP = Number of years of + (That years's Net Cash Flow – That years's Cumulative Cash Flow )/ (That's year's Net Cash Flow)**

**= 1 + (308390.03 - 262675.74)/ 308390.03**

**= 1.15**