

## PAIR HOMEWORK

1. Create a mind map of a SWOT analysis for your college (FEB) or university (Telkom University) for the SWOT analysis, focusing on what it can do to improve services for students. Include at least two strengths, weaknesses, opportunities, and threats, and then provide ideas for at least **three potential projects**.
2. Perform a financial analysis for a project using the format provided in Figure 4-5 (JWD consulting financial analysis). Assume that the projected costs and benefits for this project are spread over four years as follows: Estimated costs are \$200,000 in Year 1 and \$30,000 each year in Years 2, 3, and 4. Estimated benefits are \$0 in Year 1 and \$100,000 each year in Years 2, 3, and 4. Use a 9 percent discount rate, and round the discount factors to two decimal places. Create a spreadsheet to calculate and clearly display the **NPV, ROI, and year in which payback occurs**. In addition, write a paragraph explaining whether you would recommend investing in this project, based on your financial analysis.
3. Create a **weighted scoring model** to determine grades for a course. Final grades are based on three exams worth 20 percent, 15 percent, and 25 percent, respectively; homework is worth 15 percent; and a group project is worth 25 percent. Enter scores for three students. Assume that Student 1 earns 100 percent (or 100) on every item. Assume that Student 2 earns 70 percent on each of the exams, 80 percent on the homework, and 95 percent on the group project. Assume that Student 3 earns 90 percent on Exam 1, 80 percent on Exam 2, 75 percent on Exam 3, 80 percent on the homework, and 70 percent on the group project. You can use the weighted scoring model template, create your own spreadsheet, or make the matrix by hand.
4. **Create a WBS** for one of the following projects:
  - a. Providing a new Internet cafe onsite at your organization
  - b. Developing an app that you and a friend will create and sell online within three months.Decide on all of the Level 2 and Level 3 (if any) categories for the WBS. Use your choice of software to create a WBS in chart form. Do not enter any durations or dependencies