

Feasibility Study

❖ Technical Feasibility:-

- 1) Team's familiarity with the business area:

The business area is the course registration in New York University Abu Dhabi. The team members are sophomore students at NYUAD and have good experience in building their course schedules and are aware of the course registration process.

- 2) Familiarity with technology:

The technical tools we are going to use:

- Programming languages such as Dart, JavaScript, and Python.
- Database Management System such as Google Firebase
- Web frameworks such as HTML/CSS.

All of the team members are familiar with Python and have experience working with web development tools. Dart, Google Firebase and Javascript were used by at least two of the team members before the start of the project.

- 3) Project Size:

It is about 2 people for 6.83 months

- 4) Conclusion:

The risk in this stage is moderate. While the team has modest expertise with the technology, the team members have good knowledge of the business area.

❖ Economic Feasibility:-

Costs	Period 1	Period 2	Period 3	Total
Salaries	200	200	800	1200
H/W & S/W	0	0	0	0
Training	200	200	0	400
Support & maintenance	0	0	0	0
Total Costs	400	400	800	1600
Benefits				
Increase # of students	0	500	700	1200
Decrease costs	0	2000	4000	6000
Total benefits	0	2500	4700	7200
NCF	(400)	2100	3900	5600
CNCF	(400)	1700	5600	11200

Numbers are in dirhams.

NCF: Net Cash Flow CNCF: Cumulative Net Cash Flow

One period corresponds to one month.

H/w and S/w correspond to Hardware and Software respectively

The return on investment (ROI):

$$ROI = \frac{\text{Total benefits} - \text{total costs}}{\text{total costs}} = \frac{7200 - 1600}{1600} = 3.5$$

The break -even point (BEP):

$$BEP = \frac{\text{Period net cash flow} - \text{Cumulative net cash flow}}{\text{Period net cash flow}} = \frac{2100 - 1700}{1700} = 0.24$$

$$0.24 * 1 * 30 = 7.2 \text{ days}$$

The Project will take around 3.25 months.

- Conclusion:

ROI is good for the specifics of the project we are working on and the BEP is also reasonable. Economic risks of the project are low.