

DW Minor Project Proposal

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Project Title: What educational institute will you select to do your B.Tech.

Problem Statement: We need to design a GUI based application that would accept various components of DIEM model and save it in an SQL server based database.

We would be considering the following components:

1. Decision
2. Action
3. Uncertainties
4. Objectives

We are modelling our application specifically for our problem.

Decision: What educational institute to select for B.Tech. ?

Action: Apply for college

Uncertainties: Some uncertainties are deterministic whose outcome is known deterministically if another uncertainty is known.

We have uncertainties that are the source of informational edges and are used in taking the decision and those that are source of functional edges and are used in calculating the values/outcomes.

The uncertainties are displayed in the influence diagram.

Values/Outcomes: 1. Placements
2. Academic Learning
3. Career Progression

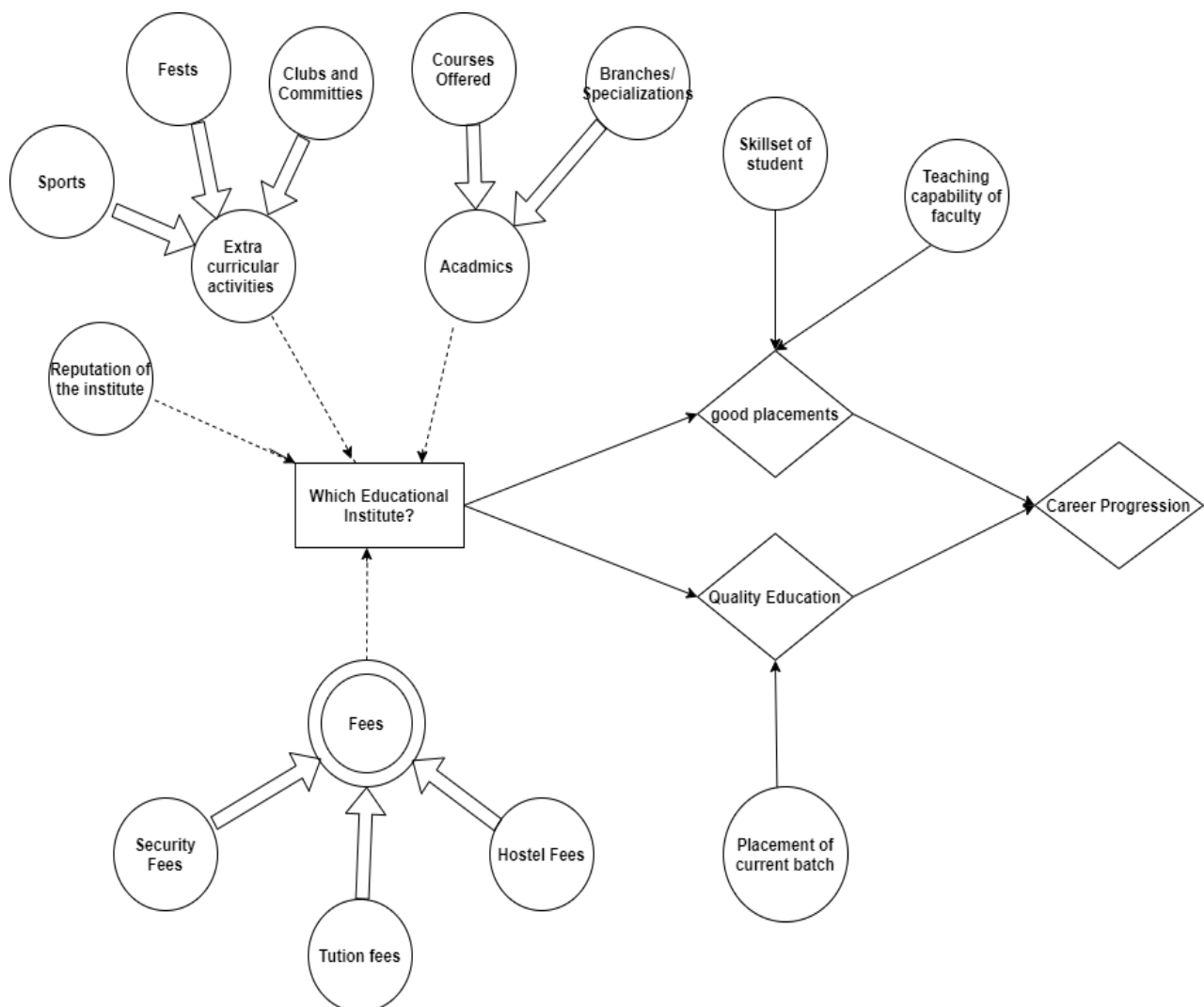
Objectives: Some possible objectives for our problem are

1. Min cost
2. Min distance from home
3. Max academic learning
4. Max exposure

Order of insertion

1. Add Decision
2. Add Values
3. Add uncertainties (informational after decision has been added, functional after values have been added, conditional after sink node uncertainties)
4. Actions after Decision

Influence Diagram



Proposed UI

[Home](#) [Decision](#) [Action](#) [Uncertainties](#) [Objectives](#) [Values](#)

Input Decision

Input Action

Input Values

Input Uncertainties

Input Objectives

[Home](#) [Decision](#) [Action](#) [Uncertainties](#) [Objectives](#) [Values](#)

Enter the decision you want to make

Save

HomeDecisionActionUncertaintiesObjectivesValues

Enter the action associated with the decision

Save

HomeDecisionActionUncertaintiesObjectivesValues

Input values associated with Decision

☒ Dependant

Select Values

Save

HomeDecisionActionUncertaintiesObjectivesValues

Enter the uncertainty

☒ Deterministic

Next

HomeDecisionActionUncertaintiesObjectivesValues

Input Objectives for the Decision

Select Imperative

Save

☒ Informational

☐ Functional

☐ Conditional

Select Value ▼

Select Source Uncertainties ▼

Next

Select Action

Select Action ▼

Attribute associated with the action

Save

Enter Number of Alternatives to be considered

Save

Action Object

Objective Object

Uncertainty Object

Select Alternative



Select Attribute



Value

Save

Select Alternative ▼

Select Objective ▼

Value

Save

DB Schema

