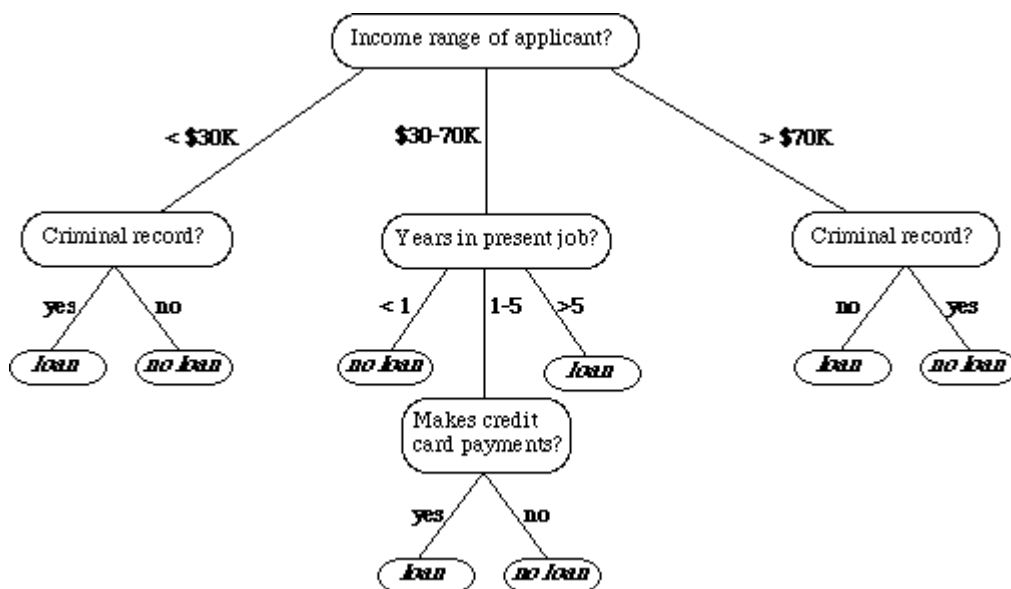


Introduction to Software Engineering – list 2

1. Give 10 examples of functional requirements for car rental system (hint: identify user types first).
2. Give at least one example of non-functional requirement related to efficiency, reliability, and usability for a library system. Look for some typical measures (ways that allow you to verify if the requirements are well defined) used to express these types of requirements.
3. Create a decision table, and present it in extended format. An airline offers flights only to the United States and Europe. Under special conditions a discount is offered on the normal airfare:
 - a. Passengers older than 18 with destination in the US are offered a discount of 10% as long as the departure is not in June or July
 - b. For destinations outside the US, passengers are offered a discount of 15%, if the departure is in June or July
 - c. Passengers who buy also return ticket receive an additional discount of 5%
 - d. Passengers older than 2 but younger than 18 years are offered a discount of 30% regardless the destination
 - e. Passengers below 2 travel for free.
4. Prepare 2 versions of a decision table presenting the evaluation criteria for the Introduction to Software Engineering course – the rules should inform about the final grade on the basis of partial grades from classes, exam and labs.
5. Translate a decision table from exercise 4 into a decision tree.
6. Translate below given decision tree into a decision table (prepare two versions: limited and extended)



Source:

<http://www.cse.unsw.edu.au/~billw/cs9414/notes/ml/06prop/id3/id3.html>

7. Prepare a decision table covering tests for a login process – the possible actions are: log in, inform about error. Login page contains two fields: login and password. At least login must be set. If none (login, password) is set a user is informed about error. Both: login and password can be invalid – then a user is informed about error. If both fields are valid, the user is logged in