

The top half of the slide features an abstract background. It consists of a light green and yellow gradient with a faint, semi-transparent grid pattern. A thin, dark diagonal line runs from the bottom left towards the top right, dividing the upper section. Below this, the title and subtitle are centered on a solid light green background.

CHOOSING A LAPTOP

INFSCI 2130 Decision Analysis and Decision Support Systems

Why choosing a laptop is difficult?

- Rapid changes of computer technology
- Various laptop models available in the market
- Price of laptops and our available budget
- Brand reputation and its serviceability
- Laptop performance and functionality

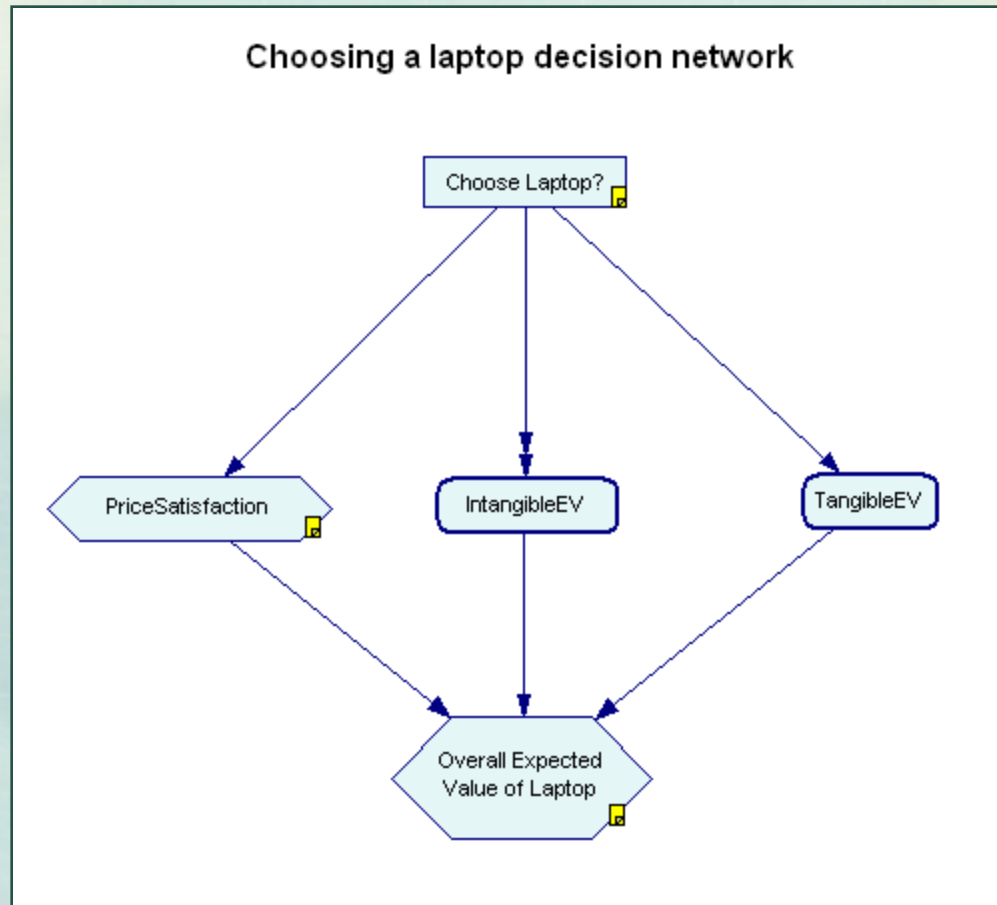
How to choose a laptop better?

- Ask ourselves why we need to buy one
- Spend time considering laptop aspects carefully (e.g., functionality)
- Estimate the worth of laptops meticulously
- **However, most of us do not have much time to consider all of those points carefully and systematically**

Choosing a laptop decision support system

- Help people make a decision better
- The decision is made under three main aspects that are:
 - Price satisfaction
 - Intangible benefit (e.g., Customer service)
 - Tangible benefits (e.g., CPU performance)

Genie Model (Main)



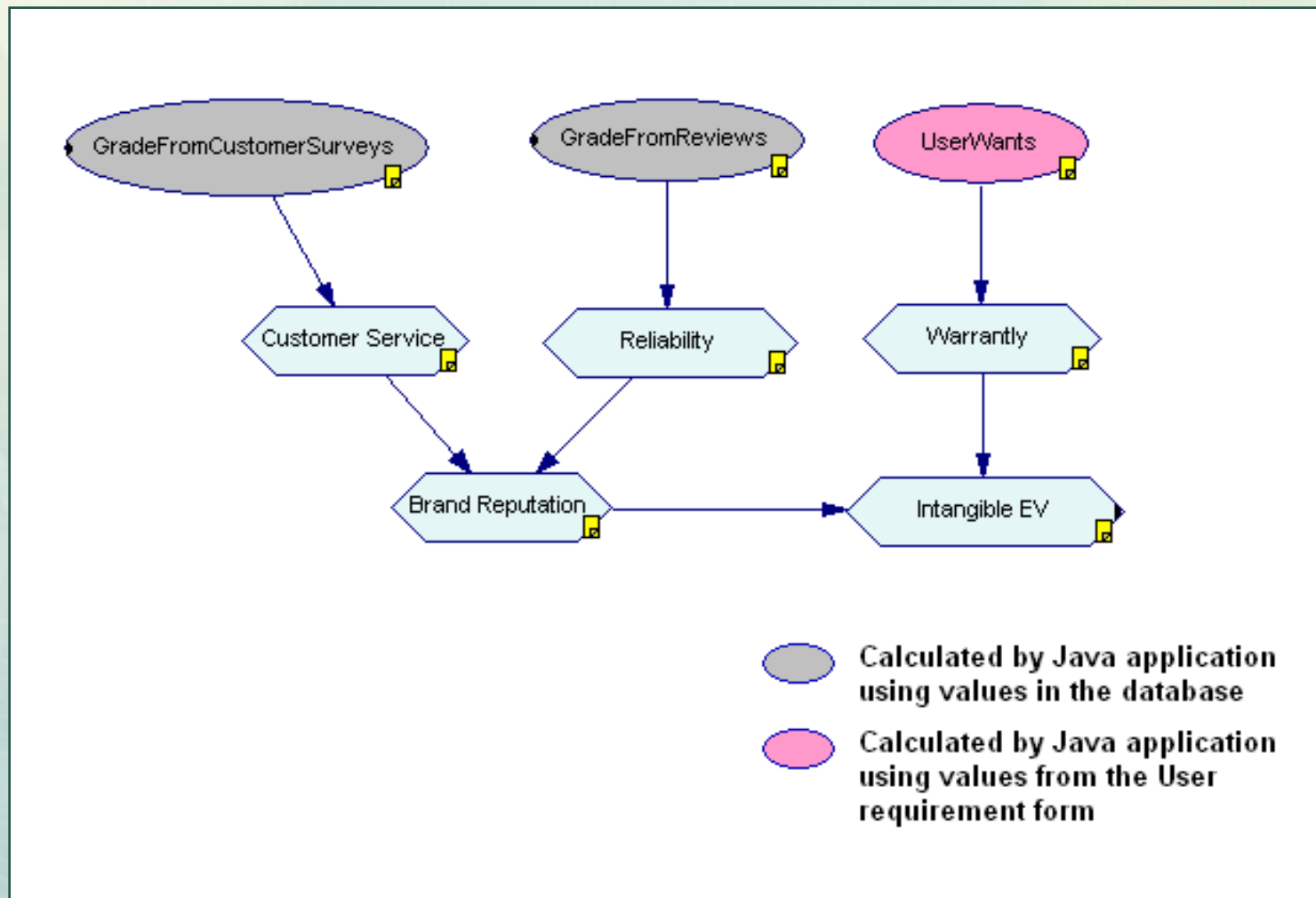
Main aspects

- Price Satisfaction
 - Laptop price
 - Budget
- Intangible Benefits
 - Laptop Reliability - Obtain data from laptop reviews
 - Manufacture customer service - Obtain data from customer surveys
 - Warranty

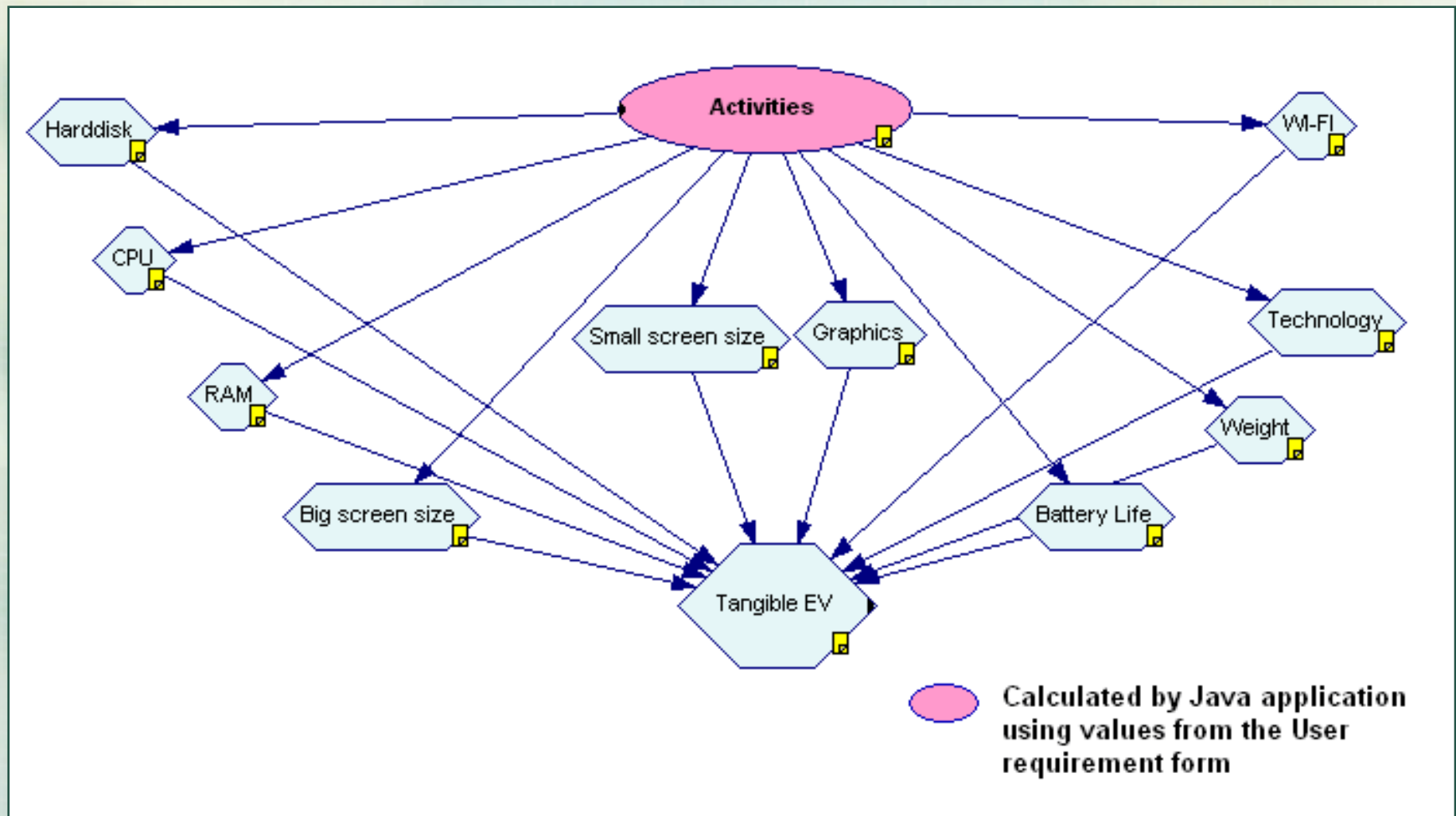
Main aspects (continue)

- Tangible Satisfaction
 - User's activities and usage style can imply the hardware specification.

Genie Model (Intangible)



Genie Model (Tangible)

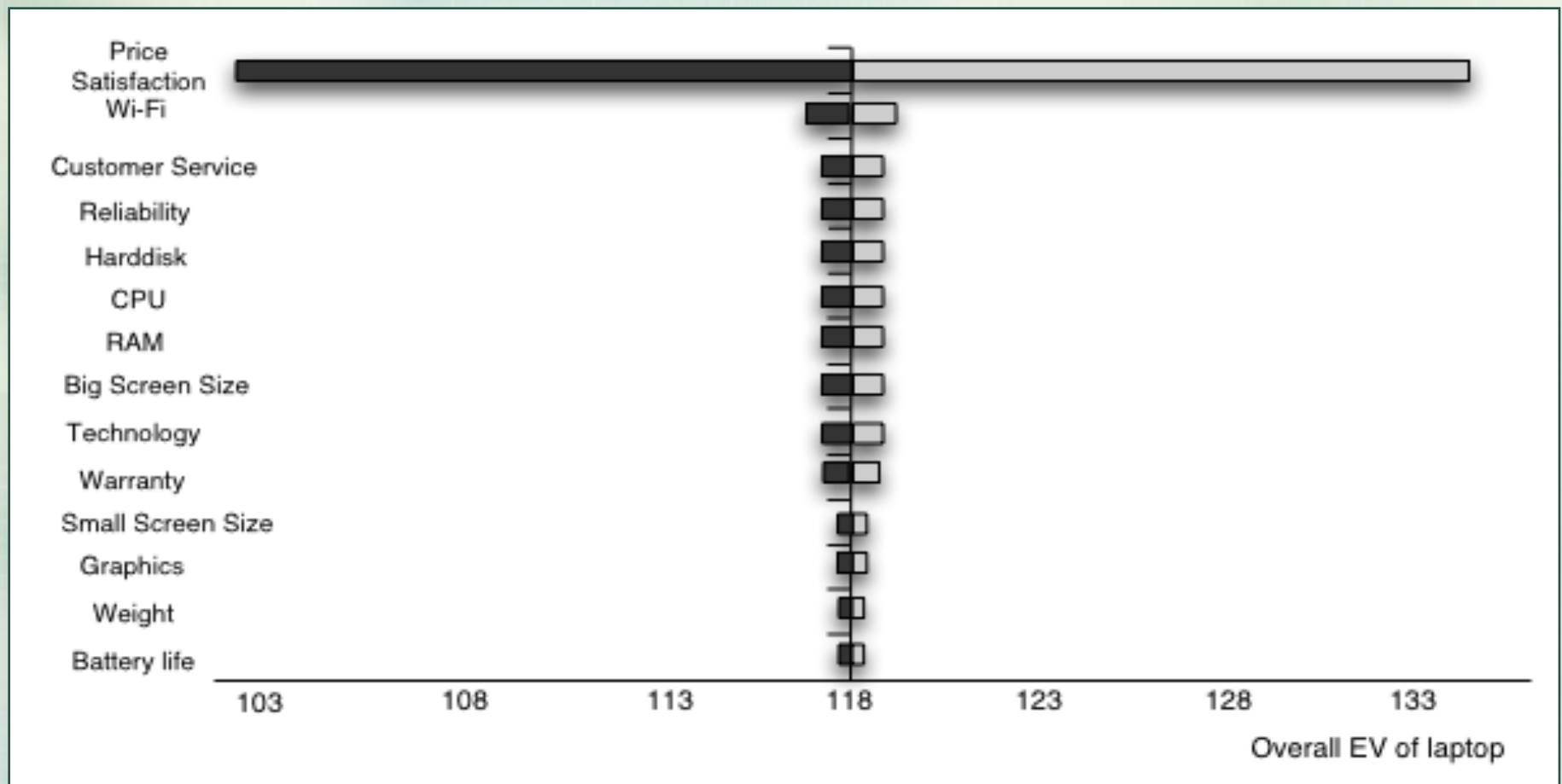


Input of the system

- Obtain from Users
 - Personal Information
 - User's Age and Gender
 - Usage and Activities
- Retrieve from Database
 - Hardware specification
 - CPU speed, Hard disk capacity, RAM, Network device, Display adapter, Screen size, etc.
 - Warranty information
 - The statistics of laptop reliability and manufacture customer service

Model Evaluation

■ Tornado Diagram







System Demonstration

Result Page - Mozilla Firefox

http://localhost/JSmileServlet/laptopexpert.servlet

The Recommended Laptops ...

	Laptop Model	Specification
1.	Toshiba Satellite P35 	CPU: Intel? Pentium? 4 Processor 54 HD Capacity: 100GB Hard Drive RAM: 512MB Memory Display Adaptor: ATI MOBILITY? RADE 17" Display 2 hours battery life 9.49 lbs weight
2.	Compaq Presario X6000 	CPU: Intel(R) Pentium(R) 4 520 2.8GH HD Capacity: 40 GB Hard Drive RAM: 256MB Memory Display Adaptor: ATI Mobility Radeon(C 17.0" Display 2 hours battery life 9.3 lbs weight
3.	HP Pavilion zd8000 	CPU: Intel(R) Pentium(R) 4 520 2.8GH HD Capacity: 40 GB Hard Drive RAM: 256MB Memory Display Adaptor: ATI Mobility Radeon(TM) X300 17.0" Display 2 hours battery life 9.3 lbs weight More information
4.	Gateway Gateway? M680XL 	CPU: Intel? Pentium? M Processor 750 1.8GHz HD Capacity: 80GB Hard Drive RAM: 1024MB Memory Display Adaptor: Intel? Extreme Graphics 17" Display 4 hours battery life 7.7 lbs weight

User Requirement Form - Microsoft Internet Explorer

File Edit View Favorites Tools Help

User Requirement Form

User Profile

Sex: ☒ Male ☐ Female
Age:
Maximum budget: Dollars

User Activity & Style

Please indicate your personal activities involving computer usage (Check all apply)

	Always	usually	sometimes	rarely	Not at all
Game Playing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E-Mail	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Web Developing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
File Sharing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Programming	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Graphic Design	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Self-study	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Chatting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Watching Movies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
File Transfer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scientific Calculation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sound Engineer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Word Processing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Web Surfing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Music	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Archive	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Presentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please indicate travelling (with laptop) frequency

	Everyday	More than once a week	More than once a month	rarely	Not at all
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please indicate how much the following aspects affect you when buying a laptop (Check all apply)

	Most	Above average	Average	Below average	Not at all
Reliability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Customer Service	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Done

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