

Optical Center: Description

- Prominent seller of traditional and technologically advanced eye-wear
- Offer personal services:
 - One Hour Lab
 - Repair Service
 - Insurance
- Two branches in:
 - Hamilton
 - St.Catharines

Problems?

- No exposure via Internet
- Inability to generate reports
- Error prone paper based systems:
 - Customer/employee records
 - Employee work scheduling
 - Inventory recording
 - Appointment taking
 - Sales records
- Underlying Problem?
 - Inefficient time management!

Functional Requirements

- For a solution to solve these problems, the software:
 - must utilize a well developed GUI
 - must allow users to pull and store information in and out of databases
 - must allow users to access it from external sources, (i.e. other than the store itself)
 - must be able to send notifications and alerts regarding inventory and appointment information
 - must automatically keep track of daily and monthly inventory changes

Non-functional requirements

- For a solution to solve these problems, the system must:
 - be flexible and well-documented for future features and upgrades
 - have online capabilities
 - use proven, low risk off-the-shelf technology in attempts to reduce general risk

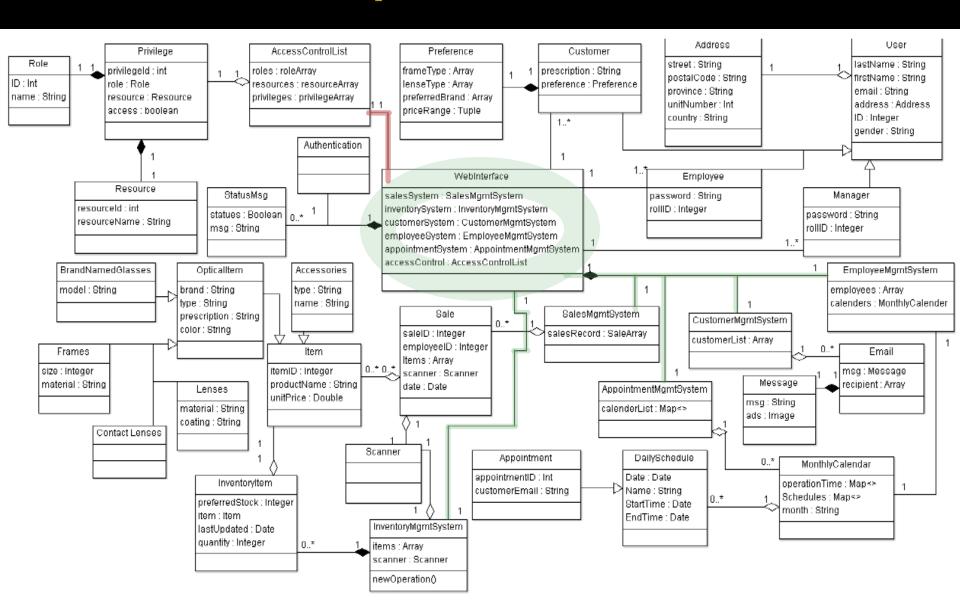
Solution?

- Make a web-based application to:
 - Allow customers to make their own appointments
 - Keep records in online databases for easy lookup, changes, trend keeping and report generating
 - Removing paper-based systems
 - Allow accessibility to anyone on the Internet
- Introduce scanners to speed up the sale process and automate sales records keeping

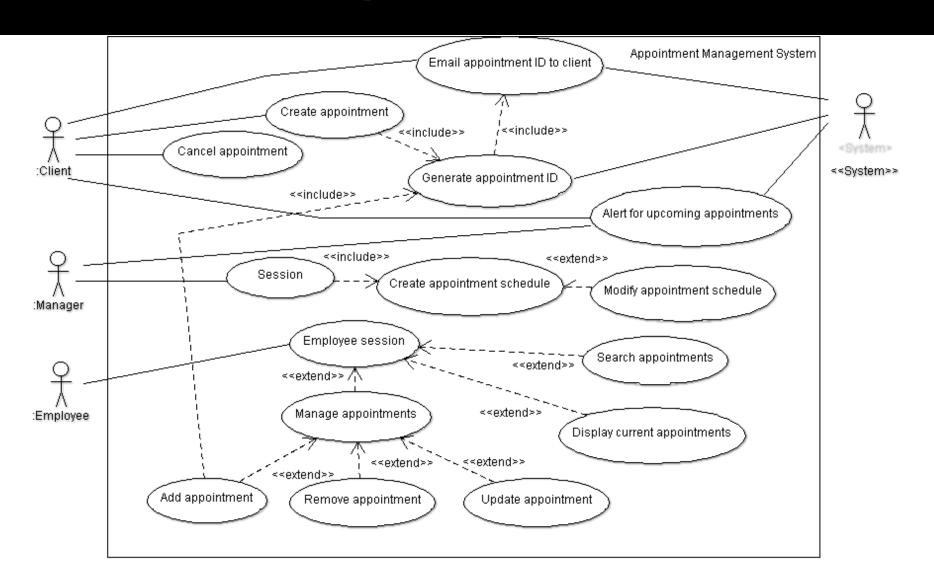
Hardware Introduced

- Scanner beds
 - For employee use:
 - In keeping track of employee's personal sales
 - In keeping records of customer's personal purchases
- Server
 - Used co-location server
 - Apache Tomcat6
- DBMS
 - IBM TotalStorage

Software Capabilities



Software Capabilities (cont.)

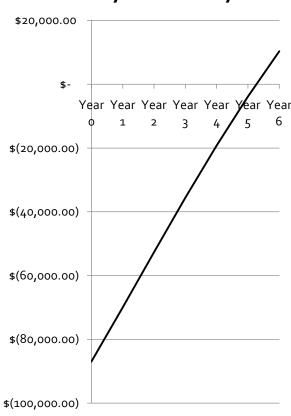


Break-Even Analysis

Payback Analysis of Option C

·Cost+Benefit

of Option C



ROI = Net Present value / Estimated lifetime costs

= 10,347 / 105,103

= 9.84% return on investment

Break-even point =

|Beginning of the year amount|

(End of year amount + |Beginning of the year amount|)

$$= (3,843) / (10,347 + 3,843)$$

Payback period is 5.271 years.

Questions?

