Case Study – 7
(30 points)

Name: Patrick Woodrum

Clemson ID: C79975506

Submission: Save this Word document with your answers as a PDF file and upload the PDF file to Canvas.

(10 pts) For the Book Exchange Project, compare the pros and cons of building a desktop app vs web app

Web App Pros:

-Easily scalable

-Runs on multiple hardware environments

-Less dependent on computing power resources

-Developed on internet-based framework

Web App Cons:

-Web apps are usually purchased or rented products, requiring vendor fees

-Requires multiple layers of software to communicate

-Complex security issues over the internet

Desktop App Pros:

-Simple, low-cost solutions for IT software

-Powerful, flexible, and user-friendly

-Integration for tutorials and data exchange with programs

-Allows more access to data and more powerful management tools

Desktop App Cons:

-Technical support required in some way

-Downloads required can be large

-Software may be more dependent on computing power resources

(10 pts) If we chose to build a web app for the Book Exchange, analyze the cost vs. benefits (tangible and intangible) of an on-site web server vs. a cloud-based web server such as Amazon

On-site Web Server

Tangible Costs:

-Hardware cost

-Human resource cost to set up hardware

-Maintenance costs to keep server running

-Potential server upgrades or downtime maintenance

Intangible Costs:

-Employees will know the in's and out's of the server

-Potentially bad servers will relate to brand damage

Benefits:

-Ownership of company servers

-Direct maintenance if there are server issues

-Easy contact with employees that maintain servers

-Size, quality dependent on nothing but company

Cloud-based Web Server

Tangible Costs:

-Server rental fees

-Technical support from server hosts

-Fees for upgrades or maintenance

Intangible Costs:

-Employees may feel rejected for not hosting their own server

-Communication issues with outside company

-If hosts are having issues, the company will have issues

Benefits:

-Company does not have to worry about server hosting

-Data storage will be accessible everywhere

-Company assets can be moved online for everyone

(10 pts) For the Book Exchange Project, build a growth estimating spreadsheet similar to that in Fig 7.8

- Since this is a new system, there will be no "current level"
- Define at least 5 potential performance factors
- Then estimate 1 year, 2 year & 5 year estimates for those factors

	FUTURE Growth		
	1 Year	2 Years	5 Years
Daily Users	1,000	2,500	4,000
Weekly Registrations	10	50	20
Weekly Donations	25	100	250
Daily Forum Posts	35	75	150
Library Size	1,500	5,000	25,000