

Lab - Evaluate Home Automation Products

Objectives

Part 1: Conduct Research for Home Automation Products

Part 2: Prepare a Presentation

Background / Scenario

In this lab, you will investigate the wide variety of home automation products. Some products may require monitoring or maintenance services, so your geographical location will most likely have an impact on your choices.

Assume you have a budget of \$1000 (or equivalent local currency) and the choice of one primary objective for home automation:

- Increases convenience
- Enhances security
- Saves energy

You will choose an objective and conduct online research to find home automation products to satisfy your objective. You will then select the desired products keeping the total cost under \$1,000 and prepare a presentation about what you bought, how it achieves your goal, and how the system will be used by the customer.

Required Resources

- PC or mobile device with Internet access
- Presentation preparation software

Part 1: Conduct Research for Home Automation Products

Home automation products represent a large portion of the IoT. Home automation primarily has the following benefits:

- Increases convenience
- Enhances security
- Saves energy

Complete the following steps to conduct research for home automation products.

- a. Launch your favorite web browser and open a search engine such as Google.com.

W3school.com

Youtube.com

Gmail.com

- b. What types of products do you want to search for?

Depend on situation

- c. Record some examples of search terms you used to find products.

- d. Record the most useful websites you found from your searches.

google.com

youtube.com

facebook.com

Yahoo.com

Amazon.com

Instagram.com

- e. Spend time doing some research on the wide variety of products that are offered or reviews on these products using several websites. After the order is validated, the order manager will notify the store's web server. It will display a message notifying the customer that their order has been successfully processed. The order manager will then send order data to the warehouse or fulfillment department, letting it know the product or service can be dispatched to the customer. At this point tangible or digital products may be shipped to a customer, or access to a service may be granted.

What are your goals for purchasing these products assuming a budget of \$1000?

Every project boils down to money. If you had a bigger budget, you could probably get more people to do your project more quickly and deliver more. That's why no project plan is complete until you come up with a budget. But no matter whether your project is big or small, and no matter how many resources and activities are in it, the process for figuring out the bottom line is always the same.

- f. Search for these products at various vendors and companies. What key terms did you use to find these products? Suppliers are essential to almost every business. Without raw materials to make what you sell or manufacturers to provide what you resell, you will have a tough time growing. There are also many supplies and services your business consumes as part of general overhead, from paper clips to Internet access.

- g. Read through the results and modify your searches as necessary in order to find the best companies with the best prices selling the products that you decide to purchase.

Make list of your desired products keeping in mind your budget of \$1000.00.

SSD

A laptop

A lab

Camera

microphone

- h. Find the best prices looking through at least 2-3 different vendors and companies selling these products. What companies did you select for researching prices?

- i. Verify that the total that you spent comes does not exceed \$1000.00. Make sure that you include taxes and shipping costs, as necessary.

Part 2: Prepare a Presentation

Prepare a presentation about the products you selected, how it achieves your objective, and how the customer will use the products.

Describe your goals for this project. What was your objective?

Describe the products that you chose for purchase including their complete cost.

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How close to \$1000 did you spend?

Describe how the products help achieve your goals.

Explain what your new system would look like and how it functions.

Use the following space to draft your notes for presentation preparation.
