Read all parts then complete the last page

# **Purpose**

You may have an idea of what type of project you want to create. Your project must have a purpose. A purpose must have these three parts:

My project is a calculator, game, grade average, etc. for the typical insert the person, group or age range for which this app is intended to be able to explain the purpose (what problem does it solve).

*Example: My project Grocery Total app is for the average grocery store shopper who needs to keep track of the purchases as things are placed in the cart BEFORE going to the check out so that the person does not go over budget by accident.*

# **Function**

Your project must explain how it accomplishes its purpose – describe the function of the working code

My project functions as explain what it is and how it works to accomplish the purpose.

*Example: My project functions as a phone app that can, with input from the user, receive a scan of an SKU number and add the cost to a subtotal, then calculates the tax and finally gives the expected total to the user*

# **Language Use**

My project uses the coding language Insert your coding language (JavaScript, Python, Snap, etc. Pick one

# **Video explanation**

Your video will be only 50 seconds long. It MUST show the use of the algorithms for which you talk about in your write up. For this reason, the video is one of the last things you will complete once you have created, tested, updated/fixed, retested – all that iteration activity. In your write up for section 2a (Row 1), you will tell what it is that people are seeing when they watch your video. If you want, you can have a narration in your video, but WRITE YOURSELF A SCRIPT so you do not leave anything out. Audio narration is not necessary if you have the information in your writeup.

In your code, you must have evidence where you are using logic and/or mathematic algorithms.

|  |  |
| --- | --- |
| LOGIC and Boolean Expressions  (things based on a condition) | Mathematical  operations |
| Or | + |
| IF | - |
| Greater than | X |
| Equal to | / |
| And | % |
| Not |  |
| Else |  |
| Less than |  |
| NOT Equal to |  |
| If Else |  |

In your coding you must show evidence as to where an abstraction uses other abstractions to complete the task.

Example: Grocery Store app

Abstraction A: uses a function that totals the about of each item

Abstraction B: uses a function that takes the totals from Abstraction A and multiplies the sales tax

Abstraction C: uses a function that adds the totals for Abstraction A and B together to come up with the final total.

*NOTE:*

* *A be stand alone.*
* *B must rely/use the information from A to generate an outcome.*
* *C must rely/use the information from A and B to generate the correct outcome.*

# Plan your project. In the area below, plan out your project before you start coding.

* How many screens should you use? Add more if necessary
* What kind of information should be seen on these screens? Explain on all screens or notate beside the boxes. (Add another Text box: Insert tab, Text box, draw)
* How will you know when your app has completed the intended task? Explain
* Will you use Logic, Mathematics or both? Where will you use them?
* Are you going to use any pictures that are not of your own making? If so, you need to cite the source of the picture.

# **STUDENT DEMONSTRATES THE PROCESS OF PLANNING**

# Developing the idea and Storyboarding my APP

As you are filling out this part of the sheet, please write your answers in the boxes provided so it is easier for me to see your work.

|  |  |
| --- | --- |
| 1. My Purpose of the app is: |  |
| 1. The way my app will FUNCTION is: |  |
| 1. The number of screens I plan to have for this app: |  |
| * + Screen 1 will have the following information |  |
| * + Screen 2 will have the following information |  |
| * + Screen 3 will have the following information |  |
| * + Screen 4 will have the following information |  |
| 1. The user will know the app has fulfilled the user’s intended purpose when: |  |
| 1. In my app, I will be using MATH in a function that will: |  |
| 1. In my app, I will be using LOGIC in a function that will: |  |
| 1. In my app, there will be pictures. Below are the citations for each of my pictures (add more if necessary): |  |
| * Picture1 |  |
| * Picture 2 |  |
| * Picture 3 |  |

# Reflection:

# It is important to keep a running diary of all your accomplishments and hindrances as you develop your app. By doing this daily, you will have evidence for which to use when you do your write up. Your reflections are your own. There is no right or wrong way as long as you keep to the topic at hand – your developing process of your product. In the space below, please write 4 to 7 sentences describing what you did today, how you feel about the work you are doing, any future ideas to “remember” to do for this project, or any assistance/talking through or bouncing ideas with a partner you may have done.

Please type your reflection of what you have ACCOMPLISHED THUS far Below. In your reflection explain some of the common issues you may have to overcome in developing your app and how you may approach these common issues. Get into the habit of writing your thoughts in a journal – I will provide you the sheet for this upcoming journal entries.

|  |
| --- |
| My refection |
|  |