FIA3: Folio – Data Programming for an Online Shop

# **Student Name: <your name here> <your class here>**

# Contents

## **Part A**: Data Driven Problem Analysis and Solution requirements

* Mindmap of Web Application (functional decomposition)
* Login
  + Storage requirements, Data design
  + Interface schematic
  + Algorithm (Pseudocode)
* Browse Products
  + Storage requirements, Data design
  + Interface schematic
  + Algorithm (Pseudocode)
* Add to cart
  + Storage requirements, Data design
  + Interface schematic
  + Algorithm (Pseudocode)
* Criteria, Goals for development (user, developer)

## **Part B**: Programmed prototype Solution

* Accessibility and usability
* Coded solutions (annotated) for
  + Login
  + Browse Products
  + Add to cart
* Testing, iterative development (successive refinement)

## **Part C**: Security and efficiency of your prototype

* Evaluation against criteria
* Efficiency of solutions and suggestions to improve same
* Security, vulnerability in terms of attack. Methods to improve same

# **Part A:**

### **Mindmap of Web Application (functional decomposition)**

<insert your functional decomposition here>

### **Login**

**Storage requirements, Data design**

<your table design here>

**Interface schematic**

<your mockup here>

**Algorithm (Pseudocode)**

<your pseudocode here>

### **Browse Products**

**Storage requirements, Data design**

<your table design here>

**Interface schematic**

<your mockup here>

**Algorithm (Pseudocode)**

<your pseudocode here>

### **Add to cart**

**Storage requirements, Data design**

<your table design here>

**Interface schematic**

<your mockup here>

**Algorithm (Pseudocode)**

<your pseudocode here>

**Criteria, Goals for development (user, developer)**

<insert your criteria here>

# **Part B: Coded solutions**

### **Accessibility and usability**

<your discussion of usability/accessibility here>

### **Login**

<your code and comments here, formatted as CODE, 8pt COURIER NEW>

### **Browse Products**

< your code and comments here, formatted as CODE, 8pt COURIER NEW >

### **Add to cart**

< your code and comments here, formatted as CODE, 8pt COURIER NEW >

### **Testing, iterative development (successive refinement)**

<discussion about testing and improving>

# **Part C:**

### **Evaluation against criteria**

<your evaluation here>

### **Efficiency of solutions and suggestions to improve same**

<your discussion about efficiency here>

### **Security, vulnerability in terms of attack. Methods to improve same**

<your discussion about security and safety of data/app here>

### **Reference List:**

* <list of any resources you used, regular biblio conventions please>

### **In addition, you need to record a 1-2 minute SCREENCAST of you using and explaining your system. It will be handed in as an MP4 VIDEO. Do NOT go nuts here, keep it simple, informative and simple.**