

Teaching Period 2b, 2023

# IFQ557 Rapid Web Development

## Assignment 2: Solution

**Word/time limit:** Required code + 5-minute video presentation (+/- 10%)

**Weighting:** 50%

**Due date:** 11.59pm AEST Friday 30 June 2023 (Assignment Week)

After you have read this information, head over to the [Assignment Q&A](#) ([https://canvas.qutonline.edu.au/courses/1187/discussion\\_topics/103032](https://canvas.qutonline.edu.au/courses/1187/discussion_topics/103032)) discussion board to ask any questions and see what your peers are saying about this assignment.

## Assignment overview

This assignment requires you to develop a web application implementation of your ecommerce store that implements the following technologies:

- HTML & Bootstrap CSS.
- Flask Templates.
- Flask WTFForms.
- Flask SQLAlchemy.

This assignment supports [unit learning outcomes 1 and 2](#).

## Assignment details

You are free to reuse the code from your previous assignment, make any changes, or develop the pages again so long as they meet the previous assignment brief. Ideally, you may choose to reuse your previous work as it will save you time. Your solution must demonstrate:

- The following dynamic pages (use SQLite):
  - customer landing page (to search for products and add to a shopping basket)
  - item detail page (to view additional item details)
  - shopping basket (to view/delete items)
  - checkout page (enter details, order completion).
- A database with three tables:
  - Products

- Orders
- Order\_Details.

You must develop code that is well-written with reasonable comments/documentation. Your code must implement HTML, Bootstrap, and Python Flask (with other Flask modules) only. JavaScript may optionally be used as well. Your code will be tested so there should be no unexpected dependencies.

### What will I submit?




You will submit two files for this assignment.

**Part A:** You should submit a zip file that contains the following:

- Relevant directories, python files, HTML files, any static files your web application uses, and the 'README' file.
- The ZIP file may contain the SQLite database file that you used for testing (optional).
- Please do not include any venv directory (Python virtual environment) of any Python installation. Ensure also that you check that your file size is reasonable before uploading.

**Part B:** You should submit a video presentation of your application on [Assignment 2: Video submission \(https://canvas.qutonline.edu.au/courses/1187/assignments/5585\)](https://canvas.qutonline.edu.au/courses/1187/assignments/5585). Your presentation should be succinct (five minutes is sufficient), introduce the purpose of your ecommerce store, and demonstrate the functionality of the working site.

### Supporting resources

- [QUT cite|write: APA \(https://www.citewrite.qut.edu.au/cite/qutcite.jsp#apa\)](https://www.citewrite.qut.edu.au/cite/qutcite.jsp#apa).
- [Record a slide show with narration and slide timings](https://support.office.com/en-us/article/record-your-slide-show-in-powerpoint-for-mac-93e8b4a1-5efb-4f78-903b-62897b8bb14b)  (https://support.office.com/en-us/article/record-your-slide-show-in-powerpoint-for-mac-93e8b4a1-5efb-4f78-903b-62897b8bb14b) (Microsoft, 2016).
- [How to shoot and edit videos with your phone](https://www.youtube.com/watch?v=S3uDn9IW2Ec)  (https://www.youtube.com/watch?v=S3uDn9IW2Ec) (Jafri, 2017).
- [How to make professional videos \(at home without pro gear!\)](https://www.youtube.com/watch?v=a2i-JwYufuA)  (https://www.youtube.com/watch?v=a2i-JwYufuA) (Lenarduzzi, 2018).

### References

Jafri, S. (2017, March 7). *How to shoot and edit videos with your phone* [Video]. YouTube. <https://youtu.be/S3uDn9IW2Ec>

Microsoft. (2016). *Record your slide show in PowerPoint for Mac*. <https://support.office.com/en-us/article/record-your-slide-show-in-powerpoint-for-mac-93e8b4a1-5efb-4f78-903b-62897b8bb14b>

Lenarduzzi, S. (2018, April 10). *How to make professional videos (at home without pro gear!)* [Video]. YouTube. <https://youtu.be/a2i-JwYufuA>

## Assignment criteria

1. Customer landing page.
2. Item detail page.
3. Shopping basket.
4. Checkout page.
5. Video presentation.

The marking guide outlines the criteria against which you will be assessed.

Assignment 2 marking guide

Assignment 2 marking guide

Criteria	7 High Distinction 85–100%	6 Distinction 75–84%	5 Credit 65–74%	4 Pass 50–64%	3 or below Fail 49–0%
<b>How each specific ecommerce page will be marked.</b>  (80%)	Fully functional ecommerce page without errors.  All requirements are fully met. A submission of this standard succeeds in the fundamental requirements but also looks convincing to a potential customer.  The solution is thorough, comprehensive, robust and well tested.	Mostly fully functional ecommerce page with very minor or no errors.  Most requirements are fully met. A submission of this standard succeeds in the fundamental requirements but also looks nearly convincing to a potential customer.  The solution is thorough and robust.	Ecommerce page is partly incomplete or has some minor errors present.  Most of the requirements have been met and the page is functional with a few errors present (i.e. the site still works and the errors only mildly impair the usage of the solution).  The solution is good and relatively convincing to a potential customer.	Ecommerce page is incomplete and has some moderate errors present.  Most of the requirements have been met and the page is mostly functional with an acceptable number of errors present (i.e. the site still essentially works and the errors only moderately impair the usage of the solution).  The solution is adequate and somewhat convincing to a potential customer.	Key parts of the ecommerce page are missing.  Requirements misunderstood or ignored, does not meet requirements. A submission of this standard would not function (or partially function) as a minimal viable solution.  There would be presence of serious errors that would impair the solution's basic operation.
<b>Customer landing page</b> (to search for products and add to a shopping basket).	20–17 marks.	16–15 marks.	14–13 marks.	12–10 marks.	9 or fewer marks.

Criteria	7 High Distinction 85–100%	6 Distinction 75–84%	5 Credit 65–74%	4 Pass 50–64%	3 or below Fail 49–0%
<b>Item detail page</b> (to view additional item details).	20–17 marks.	16–15 marks.	14–13 marks.	12–10 marks.	9 or fewer marks.
<b>Shopping Basket</b> (to view/delete items).	20–17 marks.	16–15 marks.	14–13 marks.	12–10 marks.	9 or fewer marks.
<b>Checkout page</b> (enter details, order completion).	20–17 marks.	16–15 marks.	14–13 marks.	12–10 marks.	9 or fewer marks.
<b>How your video presentation will be marked.</b> (20%)	<p>Demonstrates an exemplary ability in introducing the purpose of the ecommerce store and its related concepts.</p> <p>Provides an insightful and comprehensive walkthrough of the ecommerce store, demonstrating the functionality of the site, and emphasising the most highly relevant features.</p> <p>The delivery is sophisticated and elegant.</p>	<p>Demonstrates a very good ability in introducing the purpose of the ecommerce store and its related concepts.</p> <p>Provides a comprehensive walkthrough of the ecommerce store, demonstrating the functionality of the site and emphasising most of the relevant features.</p> <p>The delivery is sophisticated.</p>	<p>Demonstrates a good ability in introducing the purpose of the ecommerce store and its related concepts.</p> <p>Provides a useful walkthrough of the ecommerce store, demonstrating the functionality of the site and emphasising where required.</p> <p>The delivery is professional.</p>	<p>Demonstrates an adequate ability in introducing the purpose of the ecommerce store and its related concepts.</p> <p>Provides a somewhat useful walkthrough of the ecommerce store, demonstrating the functionality of the site, mostly emphasising where required.</p> <p>The delivery is mostly professional.</p>	<p>Introduction lacks adequate structure and ecommerce store and related concepts not adequately explained or contains major omissions or deficiencies.</p> <p>Walkthrough is unhelpful and the delivery is not professional.</p>

► **Assessment declaration**

## Assessment declaration and statement of authorship

In submitting this work I confirm that:

- It is my responsibility to check that I have submitted the correct assignment file before the due date.
- I am aware that any submission after the due date is considered to be late and is subject to the Late Assessment Policy. (See Syllabus for further details.)
- This work represents my individual effort and does not contain plagiarised material.
- I am aware that the University rule that a student must maintain academic integrity as stated and explained in [Academic integrity \(http://www.mopp.qut.edu.au/C/C\\_05\\_03.jsp\)](http://www.mopp.qut.edu.au/C/C_05_03.jsp)