

Academic Writing

Rui Huang

What is Academic Writing

- Academic writing is a formal style of writing used primarily in universities, research institutions, and scholarly publications. It is all about communicating ideas clearly, logically, and objectively.
- A few key traits of academic writing:
 - Clarity and precision: No fluff, just straight-up reasoning.
 - Evidence-based: Claims are backed by citations and references.
 - Objective tone: It avoids slang, personal opinions, and emotional language.
 - Formal structure: Often includes an introduction, body, and conclusion.

Writing Report

- What are those sections about
- What to write in each section

Sections

- Requirement Analysis
- System design
- Implementation
- Results

Requirement Analysis

- Here you should analysis the requirements. Usually, it start from functional requirements to non-functional requirements.
- User case diagram is often used here to describe functions.
- This section if for requirements, it does not contain design or implementation.

System Design

- In this section, we usually design the classes the system needs using class diagrams or class tables.
- The system architecture is also designed and shown with figures.
- Other software engineering tool are also used here such as flowchart, ER Graph.
- Do not have any codes in this section. This is not the implementation section.

Implementation

- In this section, please describe how you implement the functionalities you analyzed in requirement analysis section then show the codes.
- Do not only pasting codes with no description.

Results

- In this section, you should first introduce the hardware software environment. Then describe each figures and cite the figure by using the phrase such as “ as shown in figure 5.x”
- Do not listing figures with no words.

Do and Don't

Reporting things with long paragraphs

Using objective tone

Positioning your figures and texts carefully

Making your figures in proper size

Listing things or using short paragraphs or with bullets

Using I and we

Leaving too much blank area

Making big figures

Listing Things

Here are the goals for developing a mobile application that allows individuals to purchase and sell goods online:

1. User Registration and Login

- To register, users need to be able to provide their name and email address.
- Set up a password-encrypted secure login mechanism.

2. Product Listings: People need to have the ability to make listings for goods they wish to sell.

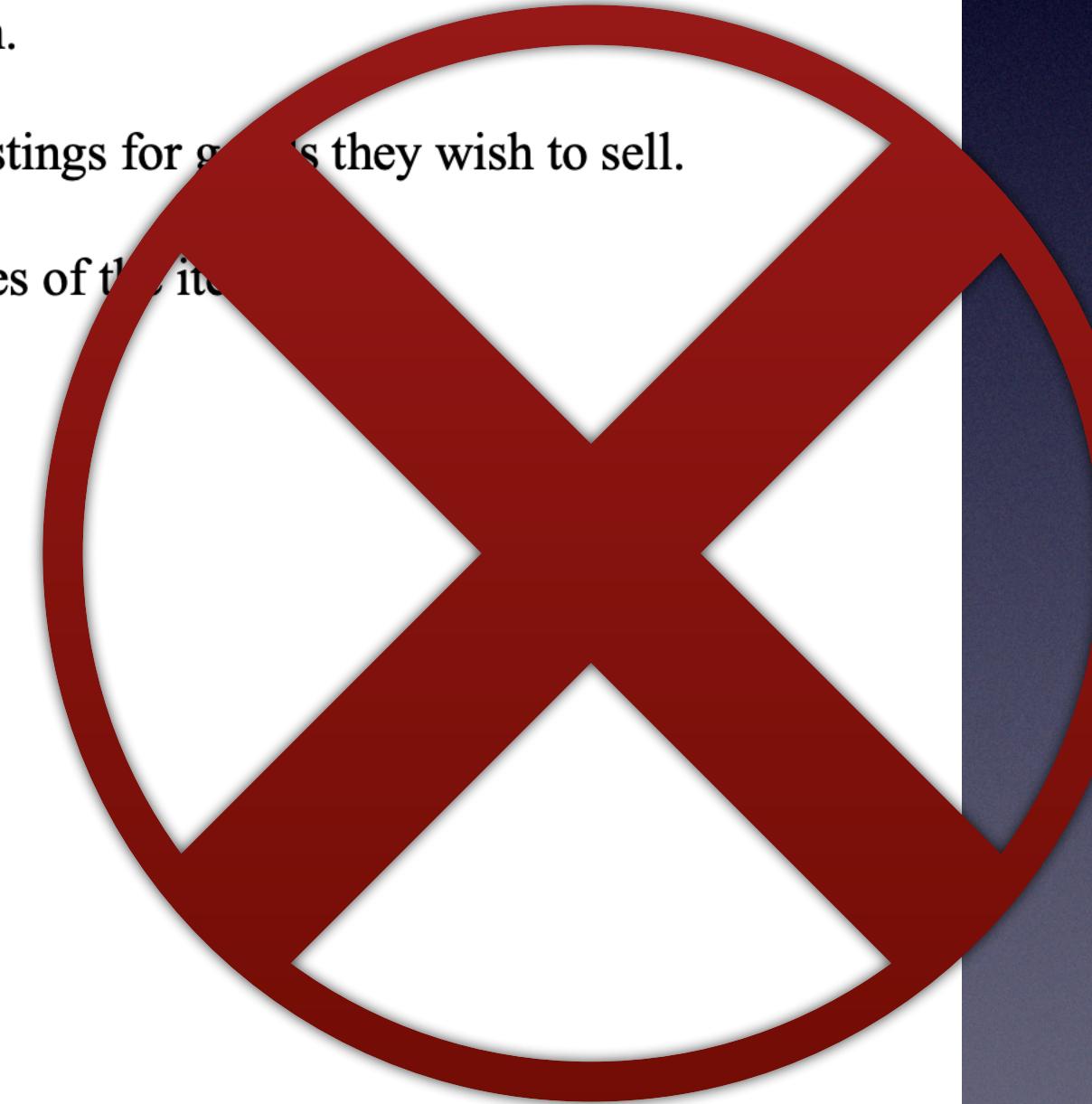
- Add fields for the name, description, cost, and pictures of the item.
- Use tags and categories to make browsing easier.

3. Browse and Search Capabilities

- Permit users to do keyword-based item searches.
- Offer filters based on area, price range, and category.
- Provide options for sorting.

4. User Profile

- Allow users to create personal profiles with information and listings.
- Provide facilities for editing profile details and managing listings.



Large Figure with Incorrect Positioning

