

# Final Project Requirements

## General Instructions

- Please form a team consisting of 5-6 member(s)
- In bigger picture, this final project requires your team to resolve a problem in community
- Please decide which of your team would have following roles:
  - Developer: 3-4 member(s)
  - Quality Assurance: 2 member(s)
- Each role will have a following tasks:
  - All
    - Decide a problem that could and want to be solved by develop web app(s)
    - Decide features and target for each feature that want to be developed in the web app(s), e.g. feature of "Cart Checkout" which targets "transaction data will be created based on cart data" and "Cart data will be removed after checkout"
    - Define flow of features that want to be developed in web app(s) in form of Sequence Diagram (you may have a look at Figure 1 as an example of Sequence Diagram of "cart checkout" feature)
  - Developer
    - Create and maintain source code for web app(s) development
  - Quality Assurance
    - Create and test script to do integration and acceptance tests for each decided features
    - Manually test the features and document the results to ensure they are working as intended (click [here](#) to get the example of test documentations)
- Tips:
  - For easier documentation on your part for deciding features and its flow, you can create a DOCX file (Google Docs, Microsoft Word, etc.) to note all features and Mermaid Chart / Visual Paradigm to document flow of specific features (Feel free to use other tools if they are more helpful for your team's final project)

## Technical Requirements

- Make sure your team implements following features in your web app(s):
  - Security Features
    - Local Authentication
    - Social Authentication (Login using Google, Facebook, or any other relevant Social Media)
    - Multi-factor Authentication
    - Access Control
    - User Logging System
    - Input Validation
    - Request Forgery Prevention
  - Functionality Features
    - Language Selection
    - Soft Delete
    - Import & Export Relevant Data (to PDF, Excel, or any other relevant format(s))

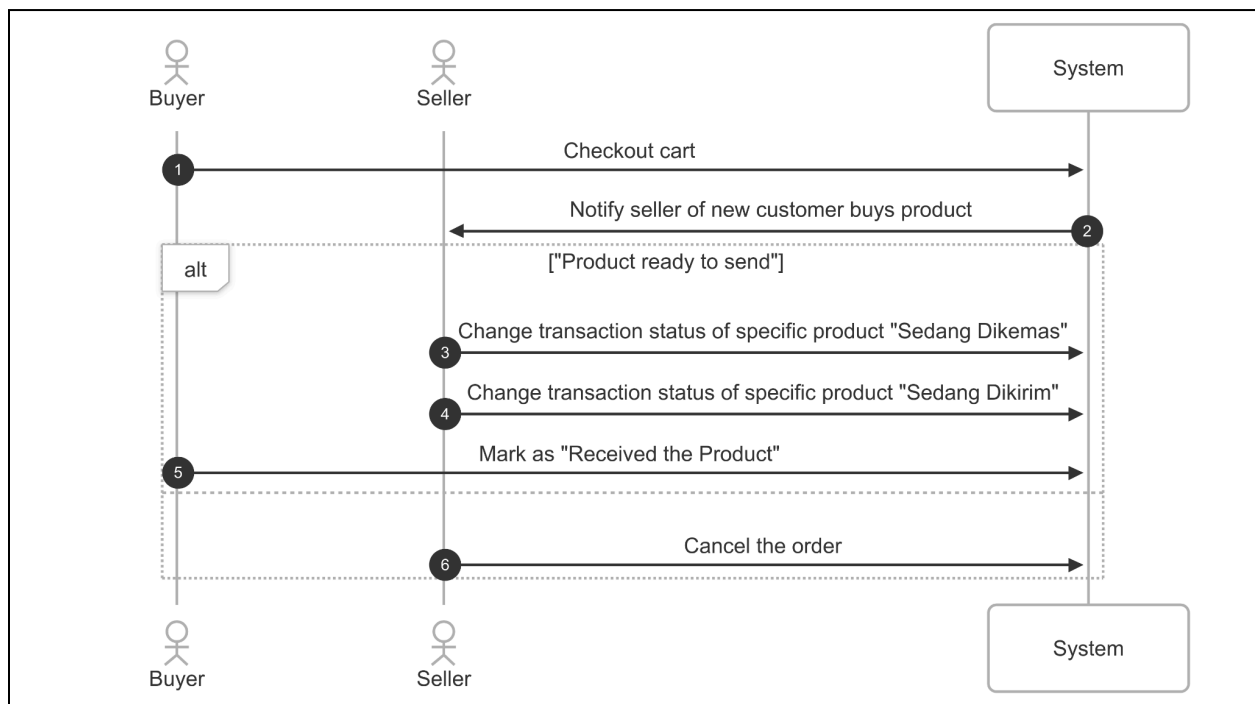


Figure 1 Example of Sequence Diagram for document flow of specific features