

# Team 23 ITSE412 SRS Report of the Quality Assurance Team

Project name: Wbay E-Commerce website

Development Team:

Name	Student ID	Role	Notes
Sajed Najib Tantush	Not provided	Not provided	Not provided
Ibrahim Abdelwahab Elsharif	Not provided	Not provided	Not provided
Mohammed Adel Elkilani	Not provided	Not provided	Not provided
Mohamed Jallul Aljorni	Not provided	Not provided	Not provided
Hayder Ahmed Eljenfawi	Not provided	Not provided	Not provided

Quality Assurance Team:

Sanad AL-Arousi	2181801442	Completeness, Quality and Special Cases Review. Final Writing of the Report
Otur Dernawi	2181801431	Format, Consistency and Tracking capability Review

## Format

1) Team's SRS document follow the same format of the IEEE12207 and 29148?

Yes, yet the std is superseded by 12207 and 29148, and since the template isn't based on them and still follows the old standard, the item is checked, and the recommendation of following the new standards isn't given, as access to them requires funds or the membership of the university in the ISO library.

2) Was the priority of each Requirement included in the document?

No, the system components were given each a separate priority:

Priority: High

● Priority Component Ratings: ○ Benefit: 9. ○ Penalty: 8. ○ Cost: 6. ○ Risk: 4.

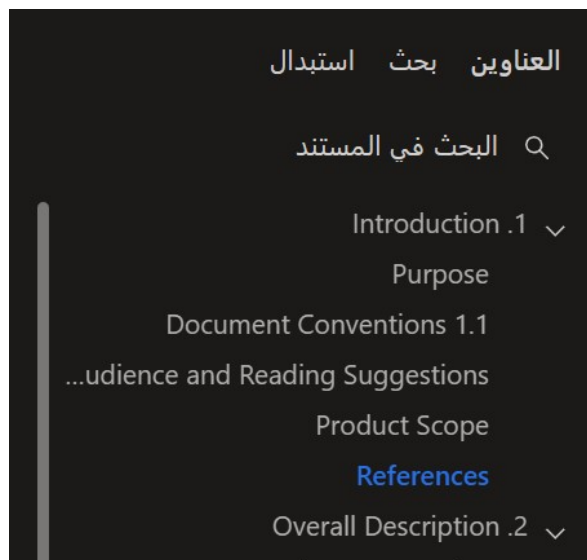
The method of distributing weights which determines the component priority isn't explained in the "Document Conventions". Dev team needs to update *each* requirement to have its own priority, and to show the way they gave each components their weights

3) Are all the references in the document correct and whole?

No, Dev team needs to update the References section to include ITSE311 and the above-mentioned ISOs.

4) Did they follow the formatting of headers and paragraphs?

No, Dev Team needs to fix the formatting of each Header, so the Table of Contents gets fixed, for an example the References section is marked 1.5 in the Table of Content, but in the headers section it is given none:



5) Were the team members listed properly?

No, the SRS document doesn't list the Dev Team properly, each member should have his own Student ID before his name, and in a separate Table or Column, each should have a brief outline of his tasks in the document.

6) Is there any unnecessary information in the document?

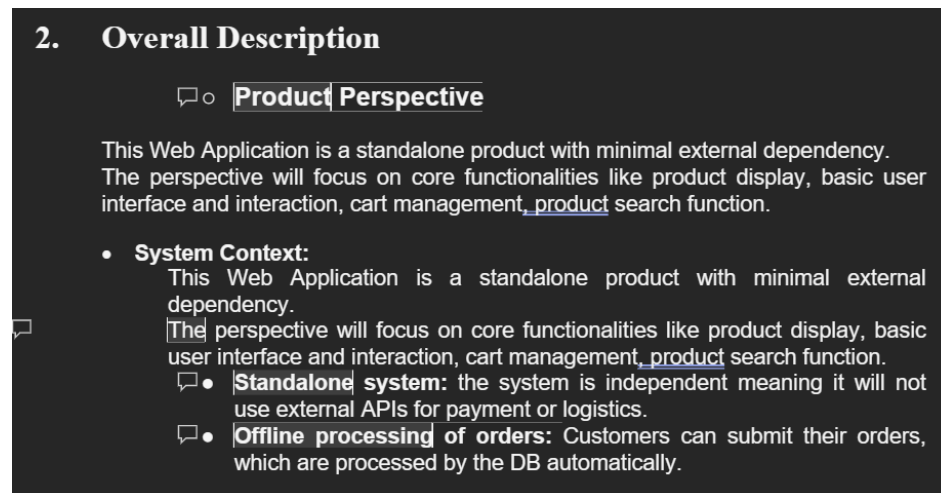
No, the document doesn't have any extra information that doesn't relate to the development or understanding of the project. No recommendations to the Dev Team is given.

7) was the table of contents, correct?

No, it is false due to not regenerating it after editing the Headers of the document, it still shows the format of the Template. Recommendation: the Dev Team needs to fix the formatting of headers then re-generate the table to show the Headers and Sub-Headers.

8) did they follow formatting conventions of each sub section?

No, sub-sections were left unformatted, such as:



It should be:

## 2. Overall Description

- 2.1 Product Perspective
  - 2.1.1 System Context
    - 2.1.1.1 Standalone System
    - 2.1.1.2 Offline Processing
  - 2.1.2 Dependencies
  - 2.1.3 Constraints

- 2.2 Product Functions

The Dev Team is demanded the necessary change to improve readability

9) Were the algorithms of the Requirements included?

No, no REQ-N included any algorithm. Dev Team needs to change each requirement to include a:

- Brief title
- Actions: Input, Output
- System Response
- Scenario
- Quality
- Scope
- Exception and Error Handling
- Conditions

To ease the understanding of each, also the dev team needs to separate the reqs of each actor alone, Vendors, Customers, Admins and Website guests should have separate Functional Requirements lists to improve readability and to motivate best practices in the future.

10) Were requirements listed in a unified and wholesome way?

Yes, change of requirements is to be don't as mentioned above, yet the current Listings of requirements is unified and wholesome.

11) Does the document include all the needs of the system and the client?

No, there weren't any user stories, generated scenarios or case studies to aid the Dev Team prepare Requirements that fit the client/end-user of the system. The way the current requirements need to be explained, and future requirements must be based on either QA report, Client stories, Generated Scenarios or any other Requirements Elicitation technique/activity.

12) Were the user requirements enough?

No, requirements miss certain features such as: Favorite list, Family Member adding, Wish List. Dev Team needs to follow the above-mentioned Requirement Elicitation Techniques to better showcase the reasoning behind the current REQs.

13) Is there any important detail missing from any requirement?

No, the current requirements have enough details scattered along the document, reorganization of said requirements is to be followed according to Q9.

14) If there was any missing requirement, was it marked TBD later?

None were marked TBD

15) Were all the behaviors of the system documented in the document?

No, the reqs didn't include the behavior of localization, report generating to vendors and admins, no method of the system giving the user its data, etc. Dev Team needs to better define stakeholders in the document and do more Req Elicitation.

## Correctness

16) Did any requirement contradict the other?

Yes, the document version 1.0 has many contradictions, 1.4 Product Scope contradicts 2.1 Product Perspective and 4.3.1 Description of Shopping Cart and 5.5 Business Rules item: No Online Payment. Also, the Scope section should include more items, it is ambiguous and seems to be AI written, why would an online e-com website have offline processing? Reliance on AI Tools yields such contradictory results. Dev Team is required to learn "Prompt Engineering", do their work separately, then with the *help* of Foundational Models, their SRS is submitted.

17) Was there a replicated requirement?

No, all requirements were mentioned once.

18) Were there any ambiguous requirements?

Yes, the contradictory portions mentioned at Q16 are ambiguous, the Dev Team is required to clarify how would the DB process an order if the Client is offline, whilst the 2.5 Sections assumes an Internet Connection, Moreover, if the website is programmed without any framework, and with minimal dependency, why would the user be required to have an Up-to-date browser? No Method of assuring the information of content and products to be accurate or correct was listed.

19) Is checking the req validity possible? Testing, View, inspection or analysis?

Yes, yet each requirement should follow the structure provided in Q9 Recommendation

20) Do all requirements fall inside the scope of the project?

Yes, yet all are missing some items.

21) Is there a requirement that is grammatically incorrect?

No, all follow good grammar.

22) Can all requirements be implemented through all the known and listed constraints?

Yes, all reqs are simple and require not many complications.

## Quality

23) Does it include the levels of system performance fully?

Yes, yet the SRS Non-FRs are too loosely written, all of section 5 is required to be narrowed more and to add more specific details. For an example, 5.2.1 Safety Reqs of Data Protection and Privacy: the level of encryption and Authentication should be mentioned, 5.1.1 Response time is too loose, no reason to have a 0.5 second overhead left since the team will use no frameworks and the system will be minimal.

24) Are there any safety measures included?

Yes, yet more detailing of levels of Access Control, Authentication, types of operation, Encryption, and Intrusion Prevention mechanisms should be mentioned.

25) Were all the goals of the Quality requirements included clearly?

No, the Quality Reqs are ambiguous, shallow and loose. Can't be measured and doesn't provide a value.

26) Can all of them be implemented within the constraints and challenges and scope of the project?

Yes, loose Quality Reqs are easily implementable, yet they are not accepted.

## Traceability

27) Was the dependency of each requirement documented?

No, as the reqs are all minimally mentioned or scattered throughout the document, no clear dependency of each service or feature was noticed. Dev Team is required to do better requirements engineering practices in general, the SRS is a contractual document, and it needs to be detailed and organized in a better manner for it to be viable.

28) Can you trace all Requirements?

No, Reqs and their attributes and behaviors are scattered along the 18-page document, it needs to be better organized.

29) Can the requirement be linked to the source?

No, no clear reasoning behind each req item was listed.

## Special Cases

30) Does the requirement show a firm base for design and testing?

No

31) Are all the listed requirements actually a requirement or might they be a solution for the design and implementation phase?

Yes

32) Does the system include special needs users?

No, the document does not explicitly mention provisions for special needs users or accessibility features. However, it is important for an e-commerce application to consider the following: Accessibility Standards, implementing web accessibility guidelines (such as WCAG) to ensure that users with disabilities can navigate and use the site effectively. Testing with Diverse User Groups, involving users with special needs in the testing phase to gather feedback and identify areas for improvement. so we recommended to add specific requirements addressing the needs of special needs users in the SRS.

33) Does the system follow localization for the user-base?

No, no localization criteria item was listed in section 5 of the SRS document. Dev Team is required to list the user-base, and to ease its use for different kinds of nations, people and marginalized groups, for it to better align with SWE Ethics, HCI and various law such as GDPR.

34) Does it comply with the principles of HCI, SWE Code of Ethics and any relevant standards of each system part?

No, the system doesn't. No apparent compliance item was listed across the document.

35) Does the system comply with the laws of Data, Privacy and criminal activities regulation?

No, no apparent compliance of such laws and regulation was mentioned, and no stockholder item included law makers. Dev Team needs to modify the stakeholder item

## Final word

First, we want to express our appreciation for your punctuality in delivering the SRS on time. The QA Team values and supports the use of AI tools to assist in completing projects, especially given the many responsibilities and life events students are balancing. However, we kindly remind the Dev Team to use these tools responsibly, as much of the SRS document appeared to have significant traces of AI involvement.

We encourage the Dev Team to reach out to us and your colleagues in the *SWE Department* with any questions or uncertainties. Many of the mistakes and flaws in the document could have been avoided by seeking guidance from someone with more experience. This is an educational journey, and you are still in the process of learning. There is so much ahead for you to grasp and master, and we are here to help set you on the right path—a path that may be challenging but is also immensely rewarding. Please know that we are always available to provide advice and consultation whenever needed.

Lastly, we'd like to remind the Dev Team that spreading the work over multiple iterations and using the provided time effectively often yields the best results. For example, this document was created after three recursive reviews of your SRS, and even more insights could have been shared had we received the diagrams earlier. We look forward to seeing your progress and growth!

**Best of Luck**

**QA Team**

**Date: 13th Dec 2024**