

Quality Assurance Plan

The quality of a developed product is influenced by the quality of the production process and good process is usually required to produce a good product. Process quality and product quality are closely related, and process improvement benefits arise because the quality of the product depends on its development process.

Product Introduction: The intended product is a researched based report on NO-SQL. The report should be academic style discussion which critically evaluates the technique's value in light of software engineering's inherent problems and concludes by discussing how far the technology does, or does not, go towards supporting the view expressed by BROOKS in the "no Silver Bullet" paper.

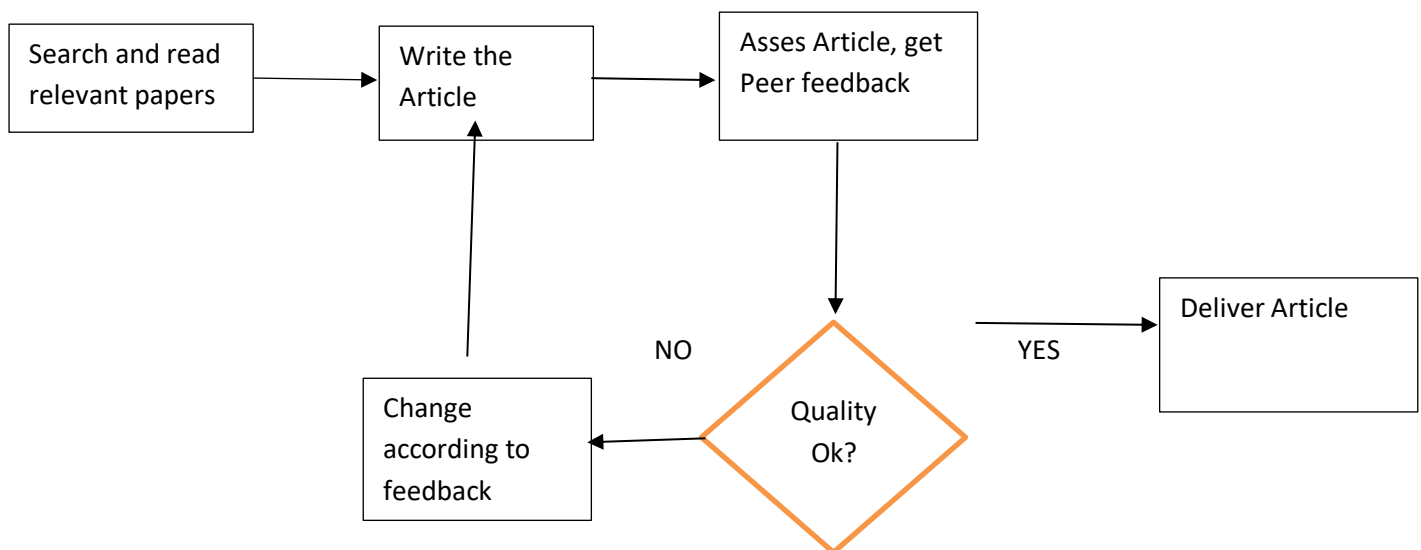
Product Attributes:

- Typed Document
- Length 1500-2000 words
- At least 5 references
- Harvard style referencing
- Readable no grammatical mistakes
- Relevant to the topic
- Academic style paper
- Format PDF

Goal	Process	Measure
Is there Title	Check the paper to see if there is a Title	Do I have written NO-SQL
Is there author name	Check the paper to see if there is author name	Is author name "waseem syed"
Is there Degree program?	Check the paper	Is It "BSc Hons computer science"?
Is there email address?	Check the paper	Is it "ws9766e@greenwich.ac.uk"?
Is there abstract?	Check the paper	Do I have abstract on the top of the paper?
Is there Introduction?	Check the paper	Do I have introduction in the paper?
Is there Conclusion?	Check the paper	Do I have conclusion with supporting evidence?

Is there Evaluation?	Check the paper	Is there Evaluation with Evidences to support?
Are there references?	Check the paper	Are there at least 5 references?
Are references Harvard Standard?	Check the paper	Peer Review if it is correct style
Does the paper address conformity?	Find and document to support or refute conformity	Do I have at least 1 paragraph discussing Conformity?
Does the paper address changeability?	Find and document to support or refute changeability	Do I have at least 1 paragraph discussing changeability?
Does the paper address complexity?	Find and document to support or refute complexity	Do I have at least 1 paragraph discussing complexity?
Does the paper address invisibility?	Find and document to support or refute invisibility	Do I have at least 1 paragraph discussing invisibility?
Does the paper include appendices?	Check paper	Are there glossaries and acronyms?
Does the paper have length between 1500-2000 words?	Check the paper	Do I have checked on Microsoft word for word count?
Are the requirements fully understandable?	Check the coursework specifications	Do I have consulted the Tutor to see if I have understood them properly?

Process description:



Need to do research on NO SQL whether it is an answer to BROOK's Silver bullet article or not. Do No-SQL are the "silver bullet" and solve all problems.

1) Survey of material

- a. Specific
 - i. At least Five journals related to No-SQL that say something relevant about one or more of Brook's Conformity, Changeability, Complexity and Invisibility.
- b. Measurable
 - i. Five Journals
- c. Agreed
 - i. Do these journals satisfy academic standards?
- d. Realistic
 - i. Yes
- e. Timebound
 - i. 10 hours

2) Document findings

- a. Specific
 - i. Record a summary of every paper I read using the headings Conformity, Complexity, Invisibility and Changeability.
- b. Measurable
 - i. 150 words for each paper, word processed, with references and quotes.
- c. Agreed
 - i. Yes
- d. Realistic
 - i. Yes
- e. Timebound
 - 2 hours

3) Time management

- a. Breakdown the tasks
- b. Assign time to tasks
- c. Monitor progress

4) Determine layout of the writing

5) Proof reading

- a. Review with peers

Goal	Process	Measure
Produce a Time plan	On Gantt chart produce a time plan and follow it strictly	Are there Times and duration for each activity?
Search academic journals	From University PC search 5 journals	Are there at least 5 relevant journals?
Gather evidence to support the writing	Read each journal and write summary that includes, Complexity, Conformity, Changeability and Invisibility	Are there CCCI headings and 150 words of summary?
Create Paper Layout	Use TexStudio and create layout according to the Paper specification	Are there Abstract, Introduction, Discussion, conclusion, evaluation, appendices in the Paper Layout?
Add Referencing file	Download Bibtex from each Journal and create a reference file in TexStudio	Is referencing in Harvard Style And referencing file is in the same Root Folder?
Write Abstract	In Textstudio write Abstract and compile document to see the output	Does abstract matches abstraction standard for academic writing?
Write Introduction	Open Textstudio Paper document and write Introduction part and compile the document to see the output	Do I have 1 paragraph with quality content in the introduction? At least 1 paragraph
Write Discussion	Open TexStudio and complete Discussion part which includes Complexity, Changeability, Conformity and Invisibility and compile to document to see the output	Do I have covered all parts as per requirement with solid supporting evidence from all journals? At least 1 paragraph for each CCCI.
Write Conclusion	Open Textstudio and write Conclusion part and compile the document to see the output	Do I have written conclusion with evidence which back my point of view? At least 1 paragraph
Write Evaluation	Open Textstudio and write Evaluation part and compile the document to see the output	Do I have evaluated the discussion with supporting evidence?
Produce completed Paper	Open TexStudio and Compile document and save it as PDF	Do I have all Parts as per requirements and Total words count is between 1500-2000 words and it matches with the structure of Example Paper?
Change Control	Open TexStudio, make any change if needed and Create final Pdf and submit on the Moodle	Do I have submitted the File on Moodle in time?

Gantt chart

Read Academic Journal 5	W Waseem Syed	Journal related to No-SQL that say something relevant about one or more of Brook's Conformity, Changeability, Complexity and Invisiblity.	1h	10/11/19	10/11/19					Read Academic Journal 5	
Record Summary for Journal 5	W Waseem Syed	Write summary, with headings CCCL, 150 words	1h	10/11/19	10/11/19					Record Summary for Journal 5	
Read Academic Journal 6	W Waseem Syed	Journal related to No-SQL that say something relevant about one or more of Brook's Conformity, Changeability, Complexity and Invisiblity.	1h	10/11/19	10/11/19					Read Academic Journal 6	
Record Summary for Journal 6	W Waseem Syed	Write summary, with headings CCCL, 150 words	1h	10/11/19	10/11/19					Record Summary for Journal 6	
Read Academic Journal 7	W Waseem Syed	Journal related to No-SQL that say something relevant about one or more of Brook's Conformity, Changeability, Complexity and Invisiblity.	1h	11/11/19	11/11/19					Read Academic Journal 7	
Record Summary for Journal 7	W Waseem Syed	Write summary, with headings CCCL, 150 words	1h	11/11/19	11/11/19					Record Summary for Journal 7	
Read Academic Journal 8	W Waseem Syed	Journal related to No-SQL that say something relevant about one or more of Brook's Conformity, Changeability, Complexity and Invisiblity.	1h	11/11/19	11/11/19					Read Academic Journal 8	
Record Summary for Journal 8	W Waseem Syed	Write summary, with headings CCCL, 150 words	1h	11/11/19	11/11/19					Record Summary for Journal 8	
Read Academic Journal 9	W Waseem Syed	Journal related to No-SQL that say something relevant about one or more of Brook's Conformity, Changeability, Complexity and Invisiblity.	1h	12/11/19	12/11/19					Read Academic Journal 9	
Record Summary for Journal 9	W Waseem Syed	Write summary, with headings CCCL, 150 words	1h	12/11/19	12/11/19					Record Summary for Journal 9	
Contingency		10% Contingency	1.48h	12/11/19	12/11/19					Contingency	

Start Writing Academic Paper	W Waseem Syed	Prepare paper layout in TexStudio and write all parts		6d	13/11/19	19/11/19				
Create Layout	W Waseem Syed	In TexStudio create academic style layout		1h	13/11/19	13/11/19				Create Layout
Write Abstract	W Waseem Syed	Write Abstract		1h	13/11/19	13/11/19				Write Abstract
Write Introduction	W Waseem Syed	Write introduction		1h	14/11/19	14/11/19				Write Introduction
Write Discussion	W Waseem Syed	Write main body. Discussion and give headings according to CCCI		5h	14/11/19	14/11/19				Write Discussion
Write Conclusion	W Waseem Syed	write conclusion		1h	16/11/19	16/11/19				Write Conclusion
Write Evaluation	W Waseem Syed	write evaluation		1h	16/11/19	16/11/19				Write Evaluation
Write References	W Waseem Syed	Write references Harvard standard		1h	17/11/19	17/11/19				Write References
Write Glossary and Acronym	W Waseem Syed	write glossary and acronym		1h	17/11/19	17/11/19				Write Glossary and Acronym
Read Paper	W Waseem Syed	read paper and match with the Example Paper if any thing missing change it accordingly		4h	18/11/19	18/11/19				Read Paper
Contingency		10% Contingency		1.36h	18/11/19	18/11/19				Contingency
Submit	W Waseem Syed	Save PDF from TexStudio and submit the file		1h	20/11/19	20/11/19				Submit

Risks and risk management

RISK ASSESSMENT

RISK IDENTIFICATION

Risk	Affects	Description
Pc breakdown	Project	Pc is a machine so there is probability of breakdown
Project File corruption	Project and Product	MS Word file on which we are working can get corrupted
Grammatical Mistake	Product	There will be grammatical mistake in the product
Spelling Mistake	Product	There will be spelling mistake in the product
Word Count mistake	Product	There will be less or more word counts compared to requirement
Structural Mistake	Product	There will be mistake in overall structure of the product(paper)
Irrelevant Papers	Project	There will be irrelevant papers reading that can delay project, waste of time
Referencing	Product	There will be wrong referencing style in the paper
Illness	Project	Health issues, sickness
Other Time-consuming activities	Project	Other course works and time-consuming works will affect the project
Requirements misunderstanding	Product	Requirements are not clear or misunderstood
Under-Estimation	Project	Project timings are underestimated
Internet Failure	Project	Internet service provider suspended service due to unforeseen reasons
Server breakdown	Project	University Web server will breakdown and product submission will delay

Threat Profile Chart:

Threat	Class of Threat			Type of Threat		Unacceptable Even				Asset Affected		Responsible	
	Technical	Personal	Theft	Accidental	Deliberate	Interruption	Disclosure	Modification	Destruction	Hardware	Product	intruder	Provider
Bug	X			X		X	X	X			X		
Theft			X		X	X	X			X	X	X	
Breakdown	X			X		X	X	X		X			
File corruption	X			X		X	X	X	X		X		
Illness		X		X		X							
Internet failure	X			X		X							X

RISK ANALYSIS

Risk	Probability	Effects
Illness	Moderate	Serious
Under-Estimation	Moderate	Serious
File Corruption	Low	Catastrophic
Pc breakdown	Low	Catastrophic
Grammatical Mistakes	Low	Tolerable
Spelling Mistakes	Low	Tolerable
Structural Mistakes	Low	Serious
Irrelevant Papers	High	Insignificant
Other Time-consuming activities	Moderate	Tolerable
Requirements misunderstanding	Low	Catastrophic
Internet Failure	Low	insignificant
Referencing	Low	Serious

RISK PRIORITISATION

Risk	Probability of loss	Size of loss (hours)	Risk Exposure (probability*impact)
Other Time-consuming activities	40%	20	8 hours
Illness	30%	20	6 hours
Irrelevant Papers	50%	10	5 hours
Pc breakdown	10%	10	1 hour
Under-Estimation	10%	5	0.5 hour
Structural Mistake	20%	2	0.4 hour
Word Count mistake	30%	1	0.3 hour
Grammatical Mistake	20%	1	0.2 hour
Spelling Mistake	20%	1	0.2 hour
Project File corruption	5%	1	0.05 hour
Referencing	5%	1	0.05 hour
Internet Failure	5%	1	0.05 hour
Server breakdown	5%	1	0.05 hour

RISK CONTROL

Risk Management Planning

Risk	Strategy
Other Time-consuming activities	Make a suitable Timetable for all other activities and complete them according to their deadlines. Make a Plan for each Coursework
Illness	Take care of your health, healthy diet and weekly workouts
Irrelevant Papers	Read abstract of each Paper if they are relevant and allocate extra time for irrelevant papers in Project planning so it wont affect the Project deadline
Pc breakdown	Save coursework on GitHub and on external USB drive
Under-Estimation	Check daily, time management chart and see if everything is going smoothly and update estimate time.
Structural Mistake	Make Paper Structure on TexStudio and match with Example paper and Coursework specifications
Word Count mistake	Check word count after every activity and have overall look on the project to distribute word count to all parts of paper, equally
Grammatical Mistake	Use Grammarly to correct grammatical mistakes
Spelling Mistake	Use Grammarly for Spelling mistakes
Project File corruption	Copy file on USB and git hub, to be on the safe side in case file get corrupted
Referencing	Check Harvard referencing, On TexStudio use appropriate package for referencing
Internet Failure	Save Mobile Data in case ADSL Net is not working, then use mobile data
Server breakdown	Upload file several hours before deadline to avoid any mishap

Version Control

Use Version control which will allow us to manage changes over time. We can track revisions of our project's assets. Use Git for version control it is good option for small teams when Project will progress, we need to manage multiple versions of the product. It will minimize risks because all changes will be trackable, and the product can be recovered in case of any Risk or threat mentioned above.