

Configuration Manual

MSc Research Project
MSCCYBETOP

Ruta Ramanauskaite
Student ID: 24242462

School of Computing
National College of Ireland

Supervisor: Raza Ul Mustafa

National College of Ireland
MSc Project Submission Sheet
School of Computing



Student Name:Ruta Ramanauskaite.....
Student ID:24242462.....
Programme: MSCCYBETOP **Year:**2025.....
Module: MSc Practicum/Internship part 2 Info & Submission page
Lecturer:11th August 2025.....
Submission Due Date:11th August 2025.....
Project Title: Development of a compliance gap analysis against Software X and DORA
Word Count:482..... **Page Count:**4.....

I hereby certify that the information contained in this (my submission) is information pertaining to research I conducted for this project. All information other than my own contribution will be fully referenced and listed in the relevant bibliography section at the rear of the project.

ALL internet material must be referenced in the bibliography section. Students are required to use the Referencing Standard specified in the report template. To use other author's written or electronic work is illegal (plagiarism) and may result in disciplinary action.

Signature: Ruta Ramanauskaite

Date:24/07/2025.....

PLEASE READ THE FOLLOWING INSTRUCTIONS AND CHECKLIST

Attach a completed copy of this sheet to each project (including multiple copies)	<input type="checkbox"/>
Attach a Moodle submission receipt of the online project submission, to each project (including multiple copies).	<input type="checkbox"/>
You must ensure that you retain a HARD COPY of the project, both for your own reference and in case a project is lost or mislaid. It is not sufficient to keep a copy on computer.	<input type="checkbox"/>

Assignments that are submitted to the Programme Coordinator Office must be placed into the assignment box located outside the office.

Office Use Only	
Signature:	
Date:	
Penalty Applied (if applicable):	

Configuration Manual

Ruta Ramanauskaite
Student ID: 24242462

1 Gap Analysis Dashboard

An Angular CLI web page was created to display a gap analysis dashboard for visualizing compliance status. The project was built using Angular CLI version 19.2.11. In order to run the application download the code base from the git repository available here: <https://github.com/rutaram604/ComplianceDashboard>

Next open the solution in Visual Studio Code and in a terminal and run this command:

- ng serve

```
PS C:\Users\RGLASS\Desktop\nci\ca3\compliance\compliance gap matrix\gapanalysismatrix\src> ng serve
Component HMR has been enabled.
If you encounter application reload issues, you can manually reload the page to bypass HMR and/or disable this feature with the `--no-hmr` command line option.
Please consider reporting any issues you encounter here: https://github.com/angular/angular-cli/issues

Initial chunk files | Names          | Raw size
polyfills.js       | polyfills     | 89.77 kB
main.js            | main          | 35.93 kB
styles.css         | styles        | 3.94 kB
| Initial total | 129.64 kB

Application bundle generation complete. [2.348 seconds]

Watch mode enabled. Watching for file changes...
NOTE: Raw file sizes do not reflect development server per-request transformations.
  → Local: http://localhost:4200/
  → press h + enter to show help
□
```

once the project boots up you can open a browser window and visit the url: <http://localhost:4200/> this is where the webpage will be loaded to.

The compliance dashboard page will be displayed that looks like this:

DORA Compliance Gap Analysis Matrix
Comprehensive assessment of regulatory compliance status and remediation roadmap

34 COMPLIANT
 14 GAPS IDENTIFIED
 3 IN PROGRESS
 48 TOTAL REQUIREMENTS

Article:
 Gap Status:
 Framework:

ARTICLE	SUBSECTION	REQUIREMENT	GAP STATUS	PRIORITY	REMEDIATION ACTION	CURRENT STATUS	FRAMEWORK	RATIONALE
Article 6: Due Diligence	1(b)	Have you implemented ICT security measures aligned with industry best practices (e.g. ISO/IEC 27001, NIST, ENISA guidance)	COMPLIANT	LOW	N/A	N/A	ISO/IEC 27001	The organization has been audited by an external company to ascertain compliance with ISO/IEC 27001
Article 1: Overall risk profile and complexity	1	Do you conduct regular vulnerability assessments and penetration testing?	IN PROGRESS	MEDIUM	will carry out vulnerability checks and external penetration testing once a year, starting in 2025. Any issues found will be shared within 10 working days and fixed based on agreed timelines	In Progress (tracked by internal manager)	ISO/IEC 27001	Vulnerability assessments are being conducted on demand more on this below. Penetration testing is performed once a year

The dashboard displays all items that were found to be DORA compliant, where gaps were identified, items which are being addressed to fill the gaps as well as the total requirements addressed. Filtering is enabled for quick sorting.

References

References should be formatted using APA or Harvard style as detailed in NCI Library Referencing Guide available at <https://libguides.ncirl.ie/referencing>
 You can use a reference management system such as Zotero or Mendeley to cite in MS Word.

Papa, J., 2024. Angular CLI Playbook. Online course, Pluralsight. Available at: <https://app.pluralsight.com/library/courses/angular-cli-playbook/table-of-contents> [Accessed 24 Jul. 2025].