

# Configuration Manual

MSc Research Project Cloud Computing

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### National College of Ireland Project Submission Sheet School of Computing



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# Configuration Manual

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### 1 Prerequisites

Since the implementation is done using the simulation approach, any of the IDE tools such as Eclipse, IntelliJ, etc. can be used. Before that it has to be ensured that atleast java 1.8 present in the execution system. This document shows the setup if the chosen development tool is Eclipse.

1. After the installation from the Eclipse (2022) download page, open the IDE tool from the installed location so that it opens with the Figure 1 loading page.



Figure 1: Eclipse start up page

• • •	Eclipse IDE Launcher			
Select a directory as workspace Eclipse IDE uses the workspace directory to store its preferences and development artifacts.				
Workspace: <sup>9</sup> /Users/maheshprakashravi/eclipse-workspace/versionproject  Browse				
Use this as the default	and do not ask again			
Recent Workspaces				
	Cancel			

Figure 2: Selecting workspace for the project

2. Create relevant workspace name for the project which can be named as version project in this case as shown in the Figure 2

3. Once the eclipse workspace is opened select import projects from the side menu and then filter the available option with the keyword git which is seen in the Figure 3. Then select the projects from git option to proceed further steps.

🗯 Eclipse		9 🗸 6	S ≤ ⊙
📸 💷 🐚 🐐 👂 🐁 🐁 😹 🎯 🔛 🥖 🕺 4			
🎦 Project Explorer 🗙 📮 📮 🍸 🗄 📟 🗖			- 🗆 🗄 Ove
There are no projects in your workspace. To add a project:			There
👺 Create a Maven project			
Create a Java EE EAR project			
Create a Dynamic Web project	Import		
Create an EJB project			
Create a Connector project	Select		
Create a Java EE application client project			
Create a deployable web project.			
Greate a JPA project	Select an import wizard:		
Create a project	git	•	
	V 🏷 Git		
	Projects from Git		
	Projects from Git (with smart import)		
	Markers > ? Cancel	Finish	
	ims		
	cription ^ Resource Path Location	Type	

Figure 3: Import Github project

	Import Projects from Git		)
Select Repository Source			GIT
Select a location of Git Repositories			
type filter text			
Existing local repository			
Zlone URI			
0	< Back Next >	Cancel	Fisish
· · · · · · · · · · · · · · · · · · ·	< Back Next >	Cancel	Finish

Figure 4: Select existing git project for import

4. In the next window out of the listed options, select clone URI the which is represented in the Figure 4 which indicates we are importing the project which is hosted in the github website. 5. Input the clone repository URI https://github.com/x21146331/AdhocOffloadingThesis.git in the URI textfield as shown in the screenshot Figure 5 and then click on next.

	Import Projects from Git		
Source Git Repository			GIT
Location			
URI: https://github.com/x211463	331/AdhocOffloadingThesis.git	Local Folder	Local Bundle File
Host: github.com			
Repository path: /x21146331/AdhocOffloadin	ngThesis.git		
Connection			
Protocol: https			
Port:			
Authentication			
User:			
Password:			
Store in Secure Store			
Ø	< Back Next	> Cance	I Finish

Figure 5: Mention git URL in the git configuration dashbboard

6. As the code is pushed into the master branch, it will be selected as default in this window which is shown in Figure 6 and click on next.

e e e Imp	ort Projects from Git
Branch Selection Select branches to clone from remote repository. Rem these branches in the remote repository.	note tracking branches will be created to track updates for
Branches of https://github.com/x21146331/AdhocOffloa	dingThesis.git:
(type filler text ✓ Å master	
Select All Deselect All Tag fetching strategy	
<ul> <li>When fetching a commit, also fetch its tags</li> <li>Fetch all tags and their commits</li> <li>Don't fetch any tags</li> </ul>	
0	< Back Next > Cancel Finish

Figure 6: Master branch selection for the github checkout

7. Select the local folder to import where in this case configmanual folder name is created for code import and click on next. The same illustrated in the screenshot which is shown in Figure 7

8. Click on next again on the working tree window then the final window displays the project to be imported from the github. This is the last window for github import where

	Import Projects from Git	Ĵ
Local Destination	on	GIT
Configure the lo		
Destination		
Directory:	Users/maheshprakashravi/configmanual/AdhocOffloadingThesis	Browse
Initial branch:	master	0
Clone subm	odules	
Configuration		
Remote name:	origin	
0	< Back Next > Cancel	Finish

Figure 7: Locala destination folder selection for checkout

one can verify the details and click on finish as shown in Figure 8

Cloning from https://github.com/x21146331/AdhocOffloadingThesis.git	Ĵ
Import Projects	GIT
Import projects from a Git repository	
Projects:	
type filter text to filter unselected projects	Select All
	Deselect All
✓ Search for nested projects Working sets	
Add project to working sets	New
Working sets:	Select
Cancel	Finish

Figure 8: Finish window Display

9. After that click on Window-Show View-Other. Filter the options with Git and select git repositories as shown in the Figure 9.

10. In the Git view window right click on the working tree and select import projects as shown in the Figure 10.

11. In the import projects window verify the project to be imported and then click on finish as shown in the Figure 11.



Figure 9: Show View Git repositories



Figure 10: Select Import Projects from Working Tree

Import Projects from File System or Archive This wizard analyzes the content of your folder or archive file to find projects and import them in the IDE. Import source: (Nsers/maheshprakashravi/configmanual/AdhocOffloadingThesis  ) Directory Archive type filter text Select All	
Import source: (Users/mahestprakashravi/configmanual/AdhocOffloadingThesis	
type filter text Select All	
Todar Deselect All	
AdhocOffloadingThesis Eclipse project	
1 of 1 selected	
Hide already open pr	rojects
Close newly imported projects upon completion	-,
Search for nested projects	
✓ Detect and configure project natures	
Working sets	
Add project to working sets New	
Working sets: © Select	
Show other specialized import wi	
Show other specialized import w	izards
< Back Next > Cancel Finist	h

Figure 11: Import Project Window

12. The landing page with the imported code will be displayed in the Figure 12 below. Navigate to fuzzyMainApp and right click to select run as java application.



Figure 12: Code Landing Page

13. Output is seen in the after running the java application which is shown in the Figure 13.

14. The individual file outputs can be seen in the package simresults/ite1 but for evaluation only the console output is considered.



Figure 13: The output which is seen in the console tab

# 2 Repositories

 ${\bf Repository~URL-} https://github.com/x21146331/AdhocOffloadingThesis.git$ 

Search or jump to 7 Pull reque	sts Issues Codespaces Marketplace	Explore			¢
🖶 x21146331 / AdhocOffloadingThesis Public					습 \$t
○ Code ○ Issues 1 Pull requests ○ Actions	E Projects II Wiki () Security	🖂 Insights 🔞 Settings			
P master - P 1 branch 🛇 0 tags		Go to file Add file -	<> Code -	About	\$
🌐 x21146331 synchronise			4 commits	Thesis Project for Secured Adhoc Offloading	
settings					
🖿 арр				☆ 0 stars ⊙ 1 watching	
Eg bin					
🖿 edu					
gradie/wrapper				Releases	
ib.				No releases published Create a new release	
scripts				Create a new resease	
sim_results				Packages	
src/main/webspp/META-INF				No packages published	
DS_Store				Publish your first package	
Classpath	Working Version		16 days ago	Languagaa	

Figure 14: GitHub Dashboard

## References

Eclipse (2022). Eclipse downloads: The eclipse foundation. URL: <a href="https://www.eclipse.org/downloads/">https://www.eclipse.org/downloads/</a>