



Group work

Software Reengineering
(COM3523 / COM6523)

The University of Sheffield

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Allocation into Groups

You have been allocated into groups of 5-6.

We have done our best to respect the requests within the submitted Google Forms.

Your groups should all be on Blackboard now.

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GitLab

This course will involve the use of GitLab.

You'll be using Git repositories for your course work.

You will be learning how to analyse projects using Git as well.

We run a GitLab instance in the department.

This enables you to log-in using your departmental credentials, instead of relying on a GitHub account.

It is important that you familiarise yourselves with how to use Git.

For those of you who are new to Git, there are some excellent resources on LinkedIn Learning.

LinkedIn Learning is subscribed to by the University, you should be able to access these courses through Muse.

One good course is "Git Essential Training: The Basics", by Kevin Skoglund (link on BB).

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Maven

Maven is a popular framework within which to build and execute Java programs.

Developers provide configuration details (e.g. links to external libraries) in a configuration file.

Automatically manages class-path and dependencies.

You will not require an in-depth understanding of Maven, but a good overview of how it works would help.

You can bring yourself up to speed with LinkedIn Learning.

For example, "Introducing Maven" by Frank P Moley III (linked).

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Choosing a group project.

As a group, you will study an open source Java project.

Your choice is significant.

You will be analysing it every week, to learn how to implement the techniques.

You will submit your group project on this system.

You will be asked to propose three Java projects as a group, which must fulfil the following criteria:

- (1) It is on GitHub
- (2) It is of a reasonable size. It should have more than 20 classes. Ideally many more.
- (2) It is primarily Java (we do not count Android or languages built on the JVM such as Kotlin.)
- (3) It is a Maven project - it should have a pom.xml file.
- (4) It should build (but its tests don't need to pass). If you run
`mvn package -DskipTests`
, it should not throw any errors.

Before you meet your group...

There is a list of links to candidate projects attached to this item in Blackboard.

Use this as a starting point to identify one or more projects that fulfils the criteria on the previous slide.

Keep a note of the GitHub URL.

Make sure that you have actually tried to build it!

... when you meet your group

Introduce yourselves to each other!

Start off by making sure that you all understand the task.

If there are any queries that you're not sure of as a group, keep note of them so that you can ask a staff member when they join your group session.

Pick your systems.

You need to submit a list of three or more projects that you'd be willing to research.

Take it in turns to talk about systems you came across that you were interested in.

Enter them into the Google form attached to this presentation as you go.

Note: No two groups will be permitted to study the same project, they must all be different.

Engagement

Attendance at practical sessions will be monitored.

An individual's mark for the final group-work will factor in attendance at these weekly sessions.

Blogs

You are encouraged to chart your journey as a group using the “Blogs” facility in Blackboard.

For your weekly group work use the blogs to:

- Share the results of that week’s work with other groups.

- Add any comments or surprise findings.

- Useful for turning into your final group report and for the final presentation.

We will not be assessing the blogs.