Introduction to MSc Group Projects 2017-2018

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Outline

1. Schedule
2. Forming Groups
3. Selecting Projects
4. Project Assessment
5. Project Requirements

Motivation

The Group Project is compulsory for all MSc in Computing Science students and counts as one of your 9 modules

- produce software as part of a team
- learn from each other
- apply skills gained in term one
- acquisition of new skills (programming languages, etc)
- gain and practice skills sought after in the workplace
  - teamwork and communication
  - deal with deadlines
  - deliver a product that fulfills a contract

Schedule

This term:

- register your groups by 27th November (1pm)
- select final project preferences by 4th December (1pm)

Spring term:

- Submit 2 intermediate reports (see CATE for deadlines)

Summer term:

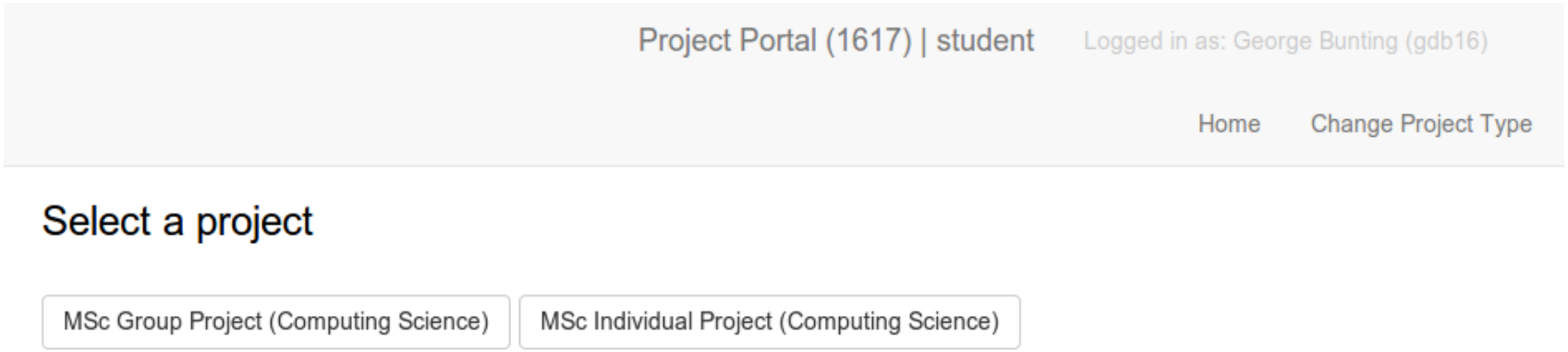
- Submit final report in May (2pm)
- Project presentations 21-24 May (TBC)

Forming and Registering Groups

- Form your own groups:
  - groups of 5 or 6 members
  - If you are not a group of 5 or 6 after the deadline, you will be split up and reallocated.
- Elect a group leader who will then:
  - log into the project portal[1]
  - create a new group and add group members
- Other group members then:
  - log into the project portal
  - sign up to the group to confirm

[1] `https://project-portal.doc.ic.ac.uk/`

Screenshots - Groups



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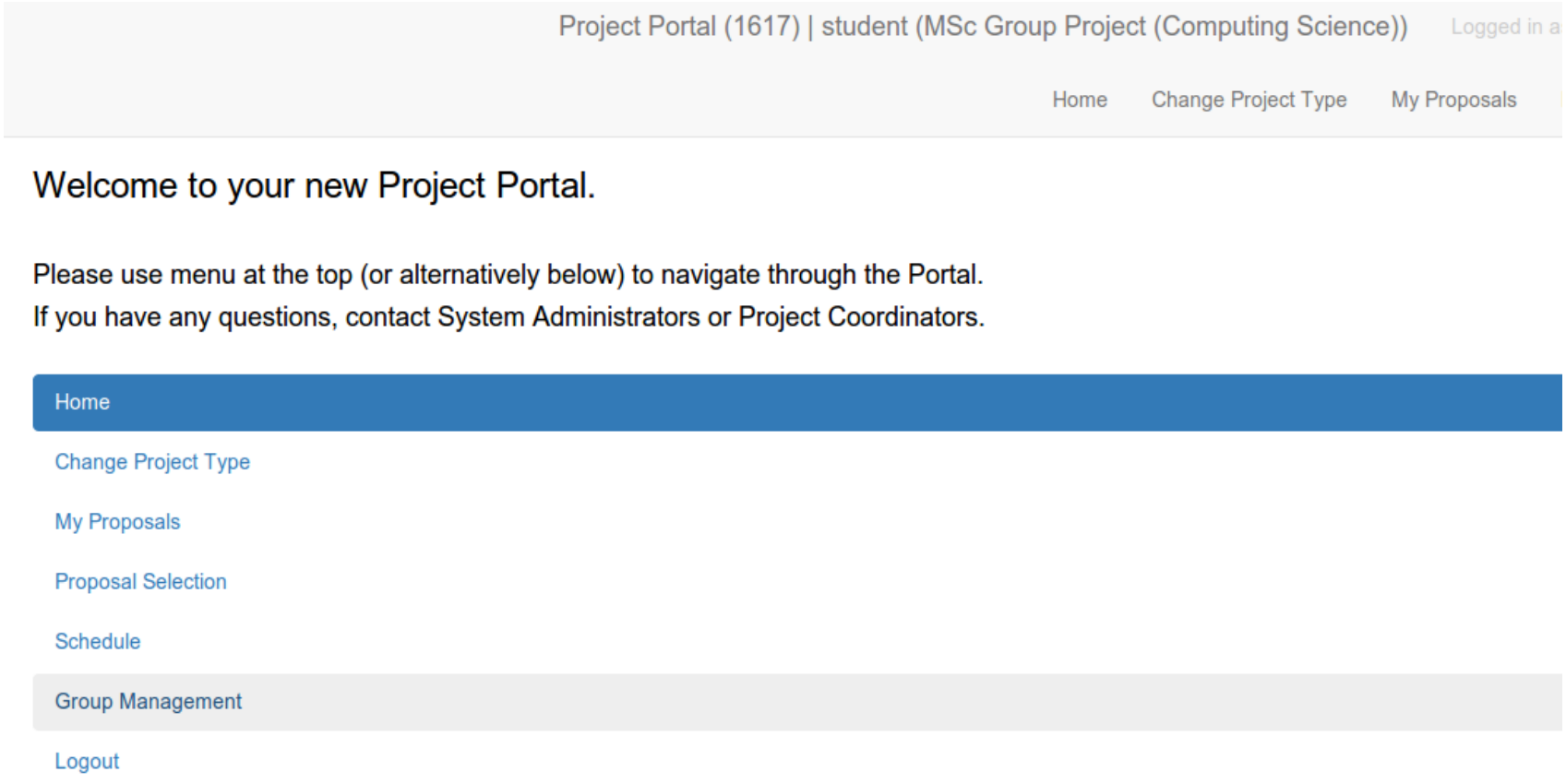

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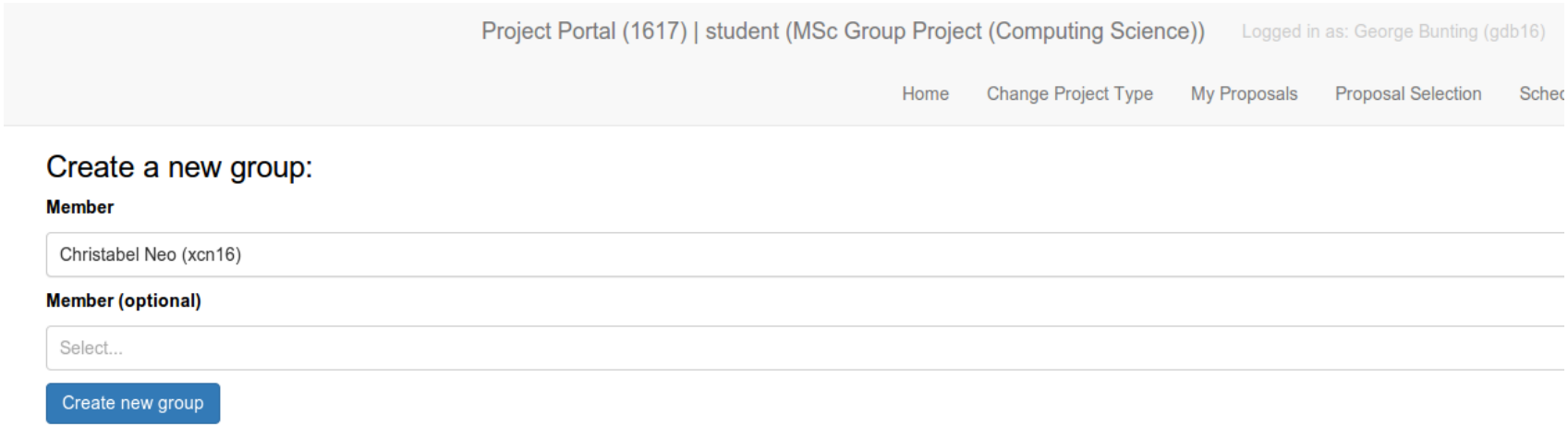

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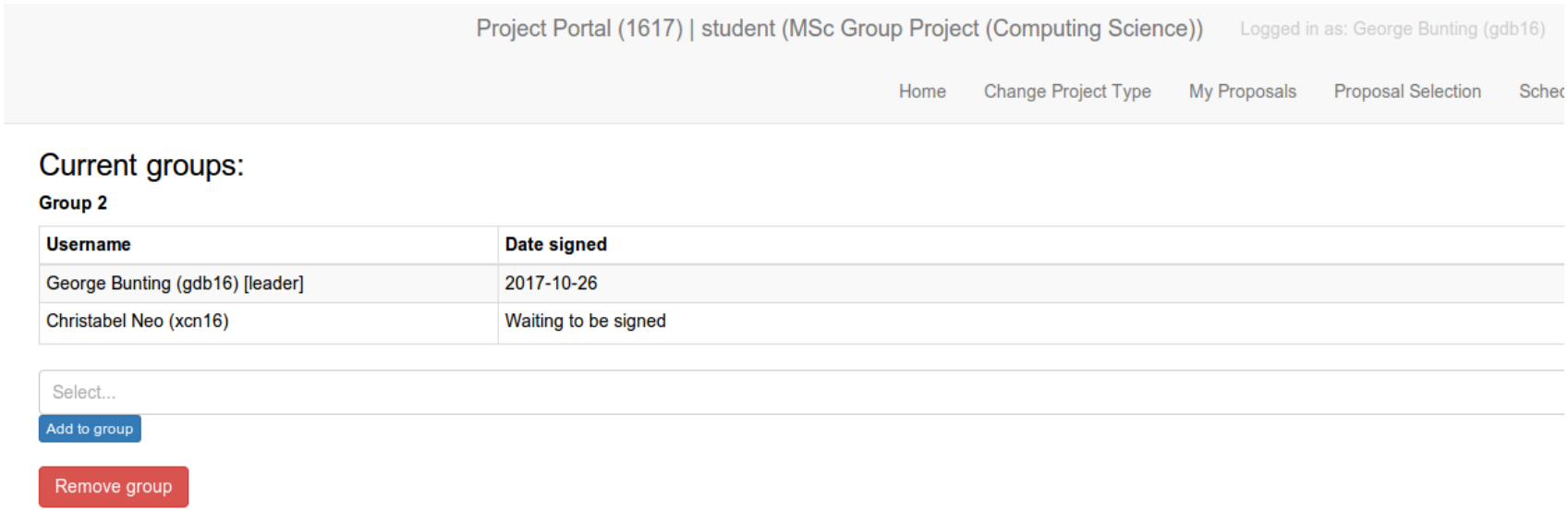

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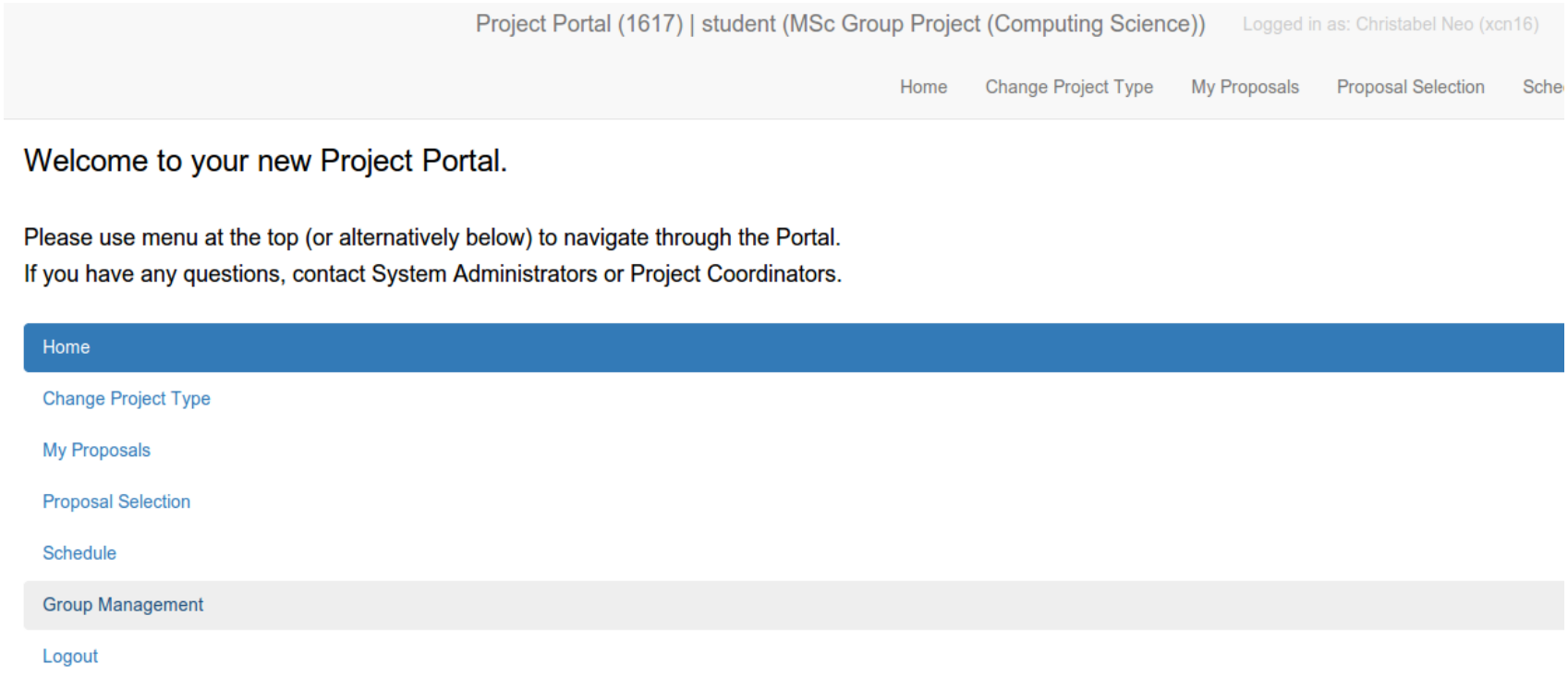

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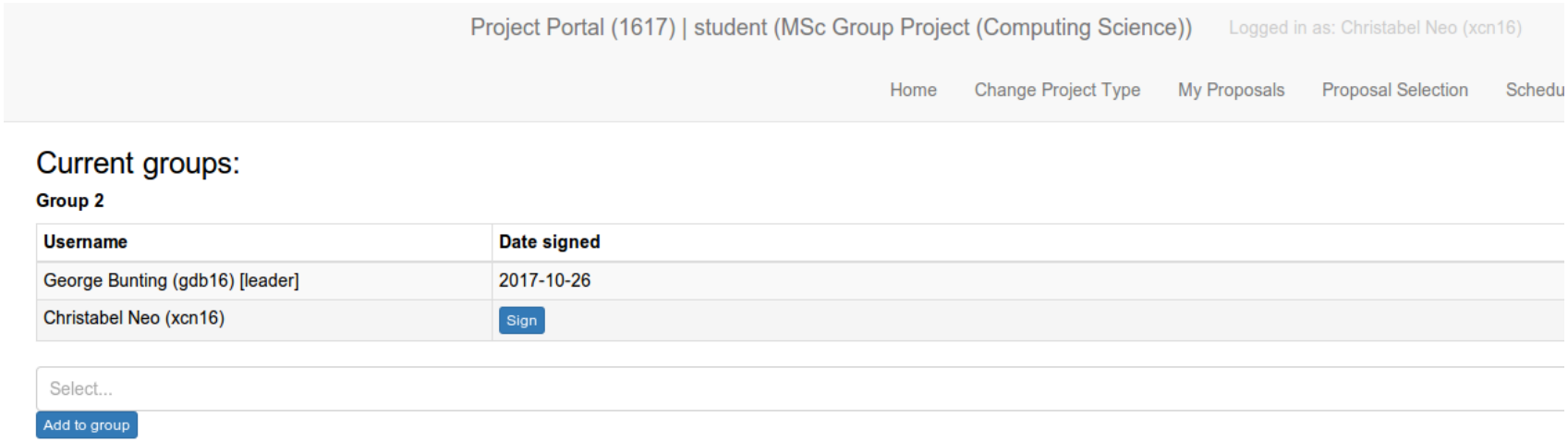

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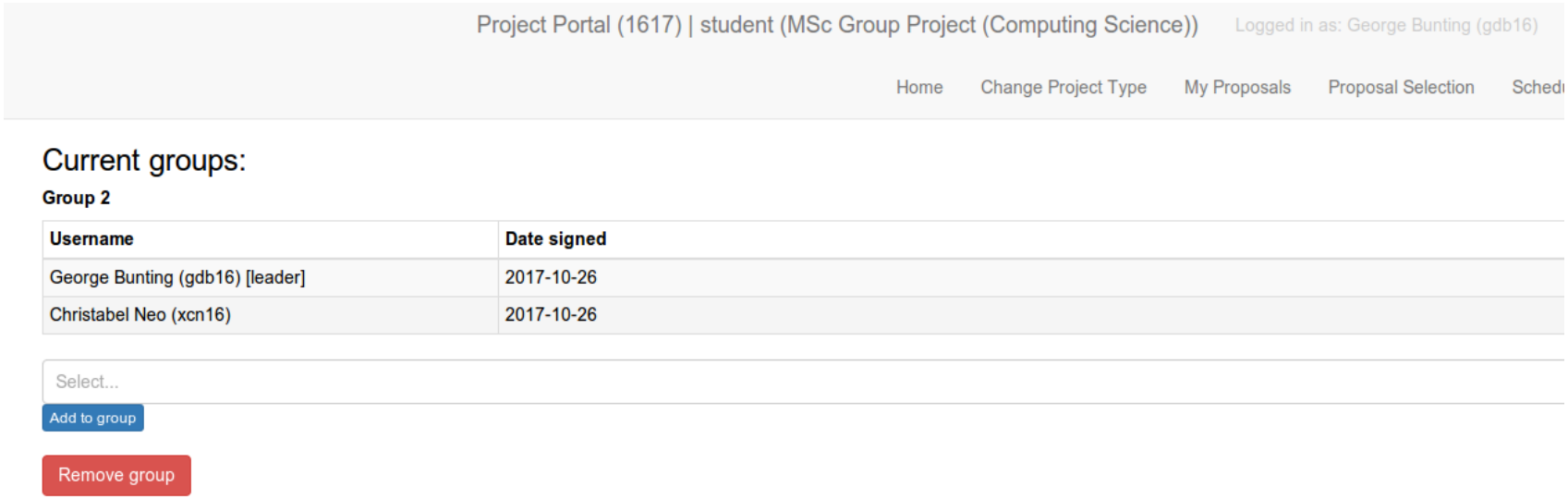
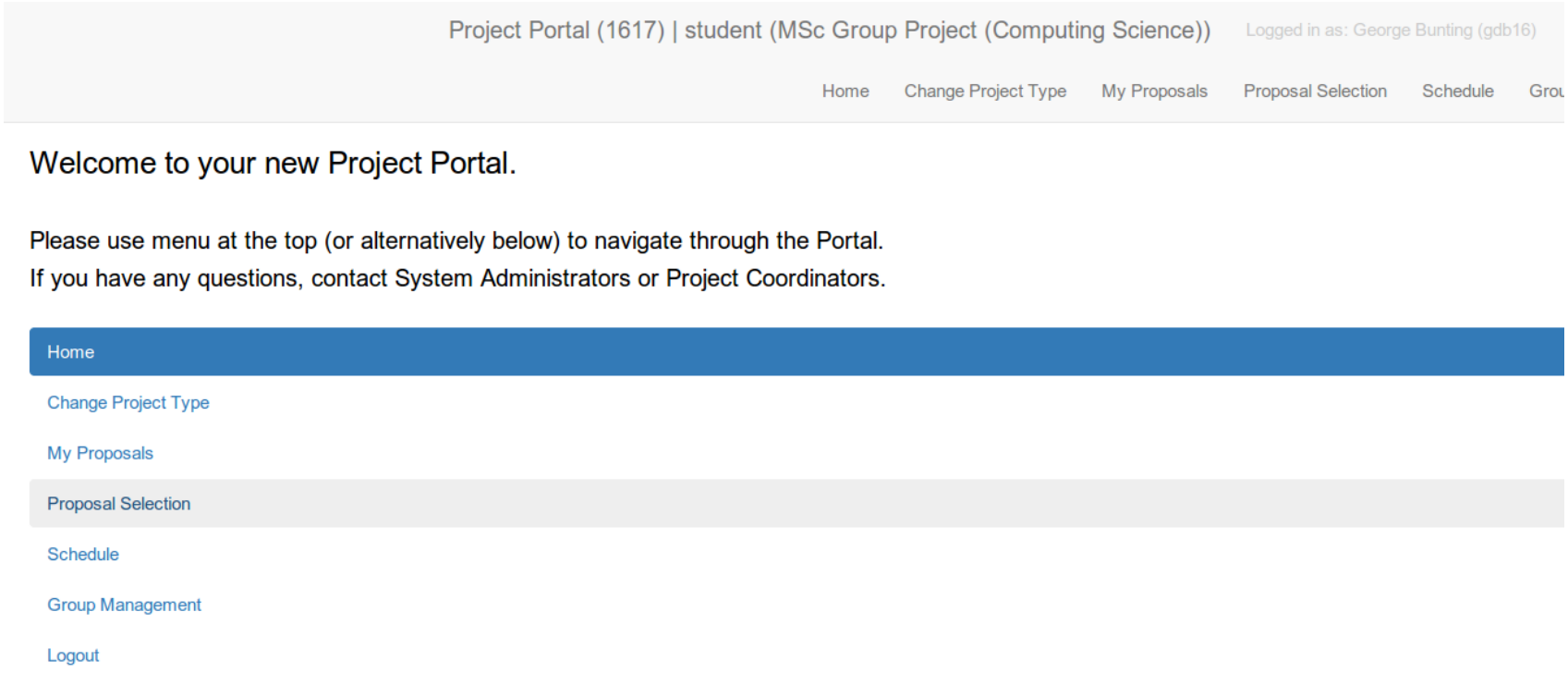


Project Allocation

- Proposals on the project portal
  - check back regularly
- Groups choose and rank 6 projects
  - done by group leader
  - taken into account during allocation
  - not on a first-come first-served basis
  - every group has to rank 6 projects even if you do a self-proposal
  - maximum of 3 projects proposed by the same supervisor
  - check how popular projects are
- Allocation completed by end of this term

Screenshots - Projects



Screenshots - Projects

Final Allocations

No	Student	Student's rank	Proposer	Supervisor	Title	Course
There are currently no active allocations.						

My ranked selections (choose 2)

Choice number	Proposer	Title

My selected projects

Choice number	Proposer	Title

Filter active proposals

Title

Search by title

Proposer

Search by proposer

Description

Search by description

Add a tag

Active Project Proposals

No	Proposer	Title	Date updated	No places available	
1	Perkonigg, Fidelis	**Cryptographic File Systems Performance [1: 0, 2: 0, SNR: 0, ALLOC: 0]**	today 2017-10-26	2	Select
2	Perkonigg, Fidelis	**Timing Attacks in the Modern Web [1: 0, 2: 0, SNR: 0, ALLOC: 0]**	today 2017-10-26	2	Select

Screenshots - Projects

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Shortlisted	Perkonigg, Fidelis	**Cryptographic File Systems Performance [1: 0, 2: 0, SNR: 1, ALLOC: 0]**	Mark choice: 1 Mark choice: 2

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Project Assessment

Project will be assessed via:

- first report (15%)
  - outlines initial project specification and development strategy (3-5 pages)
- second report (15%)
  - discusses progress and testing strategy (3-5 pages; plus appendix)
- final report + presentation and demonstration (70%)
  - can use material from first two reports
  - around 25 pages plus appendix
  - includes evaluation and project logs
  - 20 min presentation with an additional 5 min for questions

Group Organisation

- Elect a group leader
  - makes executive decisions
  - ensures on-time delivery
  - usually in charge of integration
- Everyone should contribute to coding
  - keep a record of your time for the log
- Nominate a documentation editor
  - records minutes and decisions of meetings
  - compiles the logbook and documentation

Lectures

- Software Engineering Practice (CO530)
  - development techniques
  - testing and test coverage
  - code profiling
  - version control system
  - short introduction to Python

Some Requirements

- Use agile development techniques
- Use a version control system
  - commit logs should be included in report
- Typeset your reports in LaTeX
  - templates will be provided
- Test your code comprehensively
  - evaluate the coverage of your test suite

Final Remarks

- Read the Group Project web page[2] carefully
- Be pro-active
- Leave enough time to write your reports

[2] http://www.imperial.ac.uk/computing/current-students/course-admin/noticeboards/msc/group-projects/

Questions?