

Group Project I

(SCS 2202/ IS 2102)

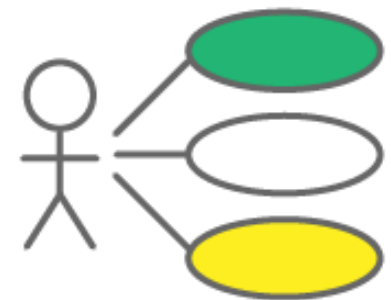


Computer Science & Information Systems Degree
Programs – Project Guide 2020



Introduction

- Compulsory course unit
- To apply theoretical knowledge gained throughout the first year of study
- Duration – 1 Year



Objectives

- Working in a challenging and demanding software development environment
- Experiencing the system development life cycle
- Covering substantial technological scope
- Developing analytical skills
- Enhancing modeling and designing skills
- Augmenting knowledge in software engineering technologies
- Practicing software quality assurance aspects
- Improving communication and presentation skills
- Experiencing industry standards, best practices and develop professionalism

Grouping

- 4~5 member groups
- CS and IS student will work separately
- Selection of members will be based on a bracket system
- Group should select their supervisor and supervisor must agree to supervise the proposed project
- There is a limit to the number of projects for a supervisor, so pls take necessary actions in advance
- A co-supervisor for each group will be assigned by us

Bracket system of member selection

Blue Bracket		
1	17001082	17001633
2	17001382	17000106
3	17000408	17001803
4	17001757	17001137
5	17001986	17000661
6	17001099	17000653
7	17001242	17000582
8	17000211	17001811
9	17001269	17000068
10	17001196	17000459
11	17001641	17001994
12	17000815	17001935
13	17000998	17000793

Red Bracket			
1	17001536	17001927	17000904
2	17000602	17000246	17001501
3	17001791	17000971	
4	17001587	17000394	
5	17001293	17000556	
6	17001129	17001005	
7	17001285	17000432	
8	17000491	17000777	
9	17000874	17001455	
10	17001422	17001498	
11	17000858	17001145	
12	17000319	17001943	
13	17001668	17001951	

Project Selection

- A good criterion to select a project is its usefulness to mankind
- A system developed by your project should improve the work of the people even in some way.
- It should never be a system that only uses computers with no real gain for its users.
- Client vs a Client with an Issue

Project, client and examination

- Satisfying a client does not guarantee that the project is successful
- Project must satisfy the Project Examination Board.



Workload Distribution

- Vertical Distribution
 - Each student needs to complete one or more business functions from one end to the other
 - Easier if workload is distributed according to user roles



Evaluation Criteria

Biweekly team meetings

- Weight – 0 Marks
- Task – Maintaining a project log, what were discussed, who took the responsibility of which part, (Group)
- Criteria -
 - Biweekly report submission – at least 2 days before the deadline
 - The penalty for a group or an individual for the noncompliance

The course coordinator can apply a maximum of 10 marks penalty (negative marks) for a group or an individual who fails to comply or adhere the rules and regulations of this course unit

Preliminary Presentation

- Weight – 10 Marks
- Task – Presentation
- Criteria –
 - Feasibility study
 - Project scope
 - Prepare an initial requirement specification
 - Identification of use cases

SRS Report

- Weight – 10 Marks
- Task – Document submission
- Criteria
 - Introduction about the project
 - Goals/Objectives
 - Feasibility study
 - Functional Requirements & Quality Attributes
 - Software Architecture
 - Any other relevant diagrams

Interim Presentations

- Weight – 15 Marks
- Task – Presentation
- Criteria
 - Revised Scope and system architecture
 - What you have done vs Remaining work
 - Experienced and learned technologies
 - Quality assurance
 - Development plan
 - Deployment plan

The **authentication** module and one **write** operation must be completed for all users, along with the **finalized UIs**

Final Presentation & Demonstration

- Weight – 25 Marks
- Task – Presentation & Demonstration
- Criteria
 - Project Scope and Requirements Agreed (same panel)
 - System design/architecture
 - Testing
 - Project completeness
 - Technical scope

Product Examination

- Weight – 10 Marks
- Task – Viva
- Criteria
 - Compliance of the developed system with design and architecture
 - Modularized system development
 - Database design and implementation comply with the design
 - Verification and validation
 - Version controlling

Individual Contribution

- Weight – 25 Marks
- Task – Individual viva and Code Examination
- Criteria
 - Taken responsibilities and completed in a satisfactory level
 - Substantial development contribution has been made
 - Code inspection or Database design/implementation aspects
 - Coding standards
 - Best practices
 - System development contribution

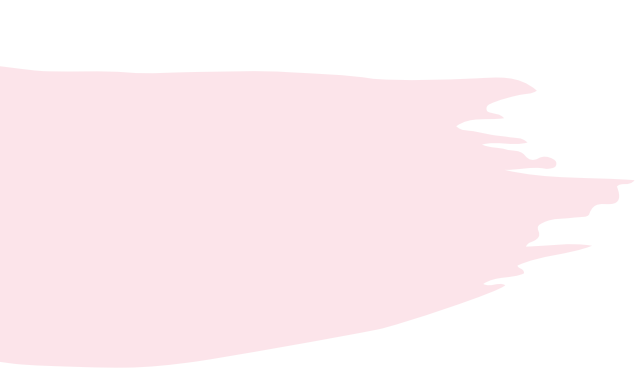
Supervisor's Mark

- Weight – 5 Marks
- Task – Supervisor will give this mark based on the individual's engagement with the project throughout the year.

Summary

• Biweekly team meetings	00 marks
• Preliminary Presentation	10 marks
• SRS Report	10 marks
• Interim Presentations	15 marks
• Final Presentation & Demonstration	25 marks
• Product Examination	10 marks
• Individual Contribution	25 marks
• Supervisor's Mark	05 marks

A student who fails to obtain **40%** or more of the allocated mark for **individual components** will be considered as 'Fail'. All the group component marks will be excluded from the student's final mark calculation. The percentage of the obtained mark from the allocated mark for these individual components will be considered as the final mark for the student for SCS2102/ IS2002 course unit.



Criteria items published here are solely for the information purpose and subject to change. In case of such changes, it will be informed to the students via LMS (UG-VLE).

Milestones Schedule

Milestone	Semester	Week Number
Preliminary Presentation	I	4-6
SRS/SDS Report	I	9
Interim Presentation	I	After exams
Final Presentation	II	After exams
Viva and Code Examination	II	After exams

Changes in 2020

- Use of Frameworks
 - The quality of second-year group projects is declining at a rapid rate
 - The students are relying heavily on frameworks
 - Neglecting basics by hiding behind the level of abstraction provided by these framework “stacks”.

consider the 2nd year group project strictly as a learning project and **not to allow the use of any frameworks.**

Changes in 2020

- Meeting the supervisors
 - A dedicated time slot
 - All members must be present
- Progress reports
 - Shall be aligned with different milestones of the project
 - Shall submit progress reports at least 2 days before the deadline
 - The students must sign in front of the supervisor
 - There must be at least a 2-day gap between the student signature day and the supervisor signature day

Project Evaluation

- Common panel members
 - Consistency in marking
 - Best project award

Year	Gold	Silver	Bronze
2016	✓	✓	✓
2017	✗	✓	✓
2018	✗	✓✓	✗

- Use of repositories
 - students will be encouraged to use a code repository such as git lab or bitbucket

Team

- Dr. Thilina Halloluwa – tch@ucsc.cmb.ac.lk
- Ms. Hiruni Kegalle - hnk@ucsc.cmb.ac.lk
- Ms. Chobodhi Padmaperuma [-cdp@ucsc.cmb.ac.lk](mailto:cdp@ucsc.cmb.ac.lk)
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