SCS3214 / IS3113 Group Project II

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- Mandatory for all CS and IS 3 year exits
- Not offered for students who are doing Honors Degree (4 year)

Learning Outcomes

- Improve the knowledge and to develop the skills required for the software development by carrying out activities in the stages of software development lifecycle (SDLC)
- Develop the relevant system documentation and user documentation of the software project assigned in all stages of SDLC
- Present, demonstrate and defend the working software system of the project as a group as well as an individual contributor
- Demonstrate it as a completed software product ready for deployment

- A group shall have both CS & IS students
- You have the freedom to select your group
- Group shall invite an academic staff member as their supervisor and the 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 coordinator
- Please, note that you have only 15 weeks to complete your work

Grouping

- The course is offered only for third year exits. However, if you are not sure that you are selected for 4th year, then you must join a group.

- You have to understand that if a student selected for 4th year, he/she will leave the group. However, group work will continue.

- After the 4th year selection, depending on group compositions we might have to do group member transfers if there are any unbalanced groups.

- Minimum group size must be at least 4 members whereas maximum number must not exceed 5 members.

- The group will identify by the **Group Number (Eg. G1, G2, G3... Gn)**
- Group should have at least 1 IS student and maximum IS students per group is 2.

Project Types

- **Software Implementation**
  Design and develop a software system for the defined problem definition of a client.

- **Research Prototype**
  Design and develop a prototype system for one or more research problems to demonstrate its validity (PoC software)

Project Types

- There shall be a working and complete software to evaluate. Scope it carefully so that you can do it on time and it is sufficient for the number of credits offered by the course.
- Students are encouraged to use frameworks. However, every framework you use shall have a rational to back it.
  - Having a chat module or search function does not justify the use of "Firebase" for the whole project.
- You shall present intended frameworks you are going to use for the project and a valid reason to use it at the proposal stage and defend it.

Contribution

- Every project shall have a Git repository and code shall work at demonstration even if you pull it from the Git and deploy.
- Your project scope shall be sufficient for 3 credit course per individual
- Which means each of you shall present at least 90 hrs worth work and at least 60 hrs worth self learning
- We expect you to have continuous commitment throughout which you can present through the Git statistics for each contributor

Both group grade and individual contribution will be considered when calculating the final grade.

Final individual grade =
          70% of Group grade + 30% of Individual grade

Please, note that, if a student fails to obtain at least 40% of marks given for individual contribution, he/she will NOT qualify to pass this course irrespective of the Group Grade.

Group grade calculation

- 10% - Based on the project proposal and presentation
- 30% - Interim Report and Presentation (this includes SRS, all design documents)
- 60% - Final Presentation,
    - 30% - Demonstration of the Working Software
    - 20% - Performance the Presentation
    - 10% - Final Project Report

Individual grade calculation

- 15% - Bi-weekly reports, discussions and learning reflections
- 10% - Supervisor Recommendation
- 25% - Presentation of individual scope and achieving them at the end of the project.
- 20% - Presentation of self learning and experience gained through the project.
- 20% - Performance at the Q & A sessions in 3 presentations
- 10% - Final individual self reflection report (max 2 pages)

Please, note that, if a student fails to obtain at least 40% of marks given for individual contribution, he/she will NOT qualify to pass this course irrespective of the Group Grade.

- No formal lectures but there will be technical sessions and discussions relating to group project.
- We'll allocate a time after groups are formed to discuss common issues and formalities
- At least one member from each group shall attend to this meeting

Estimated timeline

- Submission of concept paper - 6th May 2020 (extended on request)
- Forming Groups, Find supervisors - 4th May 2020
- Proposal Submission -11th May 2020 (PDF document to the LMS)
- Proposal Defence - will be notified through LMS
- Interim Report Submission - will be notified through LMS
- Interim Presentation - will be notified through LMS
- Pre-Final Presentation and System demonstration - will be notified through LMS
- Final project report (1st draft) - will be notified through LMS
- Final Formal Presentation - will be notified through LMS
- Final project report (final version) - will be notified through LMS