

IT2080 IT Project
Assignment 1 – Project Proposal

Weight: 20%

Submission: As explained in the text.

Deadline: As explained in the text.

Section 1 – Project Proposal (document) [10%]

- File name – 2023-S2-IT2080-ITP-Assignment1-ProjectProposal-<GroupID>.doc
- Number of pages -20 to 30 (excluding appendix).
- Submit the document (.doc and .pdf) via the link in the courseweb and also to the evaluator at the end of the presentation (more instructions will be provided when the presentation is scheduled).
- Consider the given marking scheme and make sure you have included all the sections to obtain the allocated marks.

Content

- Use the template below to draft your proposal.

1. **Background** – Briefly state the nature of the client.
2. **Problem and motivation**
 - a. Provide a problem statement and then elaborate by explaining how the client is currently doing the work and the problem the client is facing in the current process.
 - b. Motivation – State the benefits the client will receive by addressing the problem.
3. **Aim and objectives**
 - a. Aim – provide a high-level statement to indicate the aim to be achieved by your project to address the problem discussed (state the specific nature of the solution).
 - b. Objectives – Provide the steps to complete in order to achieve the aim. These steps should be measurable. They can be used in the project plan.
4. **System overview** with system diagram– State and discuss the functional requirements, related non-functional requirements, and related technical requirements (they may slightly change later when you do proper requirements engineering).
5. **Literature review** – Identify the similar solutions and critically review each indicating their pros and cons. At the end provide a summary, concluding why the existing systems cannot be used to address the client’s problem and you should develop a new system.
6. **Methodology** – State all the methods, tools, and technologies you plan to use for this project. You may categorize the methods into following: requirements engineering methods, design methods, development tools and technologies, testing methods, integration methods,

etc. Always state the alternatives and justify your selection. Include the project plan (Gantt chart) and work breakdown structure (tabular format) under this section.

7. **Evaluation Method**- State how the system will be evaluated.
8. **References** – You should cite references especially when you discuss the background of the client and when you justify the selection of your methods. Please do not provide statements based on your imaginations and always make sure to be based on literature. The references should be valid sources like official web sites, research papers, books. All the references should be cited in the main text.
9. **Appendix** – Include additional diagrams and descriptions in appendix. All the content should be referred in the main text.

Marking scheme

Section	Marks
Company/Client Background	5%
Problem [10%] and motivation [5%]	15%
Aim [5%] and objectives [10%]	15%
System overview	15%
Functional requirements [10%] Related non-functional and technical requirements [5%]	
Literature review	15%
Identify similar solutions and critically review each [10%] Summarize highlighting why they cannot be used [5%]	
Methodology	25%
All the SE related methods, tools, and technologies [15%] Project plan [5%] Work breakdown structure [5%]	
Evaluation Criteria	
References	5%
Valid references in IEEE format All the references are cited properly	
Total	100 %

Section 2 – Presentation + viva [10%]

- Presentation and viva will be scheduled during the ITP module sessions.
- All the members of the group MUST participate the presentation, and absent members will not be given additional schedule or marks.

Content

- **Introduction [2-3 mins]** – There should be an introduction section to briefly state the background, problem and motivation, aim and objectives, system overview, literature review, and methodology. One member or multiple members can present this section. The mark for this section is common for all the members (refer to the marking scheme below).
- **Features of the system [each member 2-3 mins]** – Each member has to present the feature(s) they are working in. Each member will be individually marked based on their presentation and viva (refer to the marking scheme below).

Marking scheme

Section	Marks
Introduction – This is a group mark Background [5%] Problem and motivation [5%] Aim and objectives [5%] System overview [5%] Literature review [5%] Methodology [5%]	30%
Features of the system – This is individually assessed Functional requirement [10%] Related non-functional requirements [10%] Related technical requirements [10%] Users of the feature and their operations (CRUD) [20%]	50%
Presentation skills – This is individually assessed	10%
Viva – This is individually assessed	10%
Total	100 %