

SWE30010 Manage IT Projects

Pass Task 4 (Group)

Project Proposal Part 4 – Solution Direction & Solution Design

Overview

In this task, you are to develop your group's project proposal of a software project based on its description – Software Architecture Design.

Purpose: • To practise how to develop a group's project proposal of a software based on its description – Software Architecture Design

Tasks: 1. Finalize a solution direction of a software project
2. Finalize a high-level design of a software project

Resources: Lecture 2
03_R_Design_Template.docx

Feedback: Tutor will provide feedback during weekly tutorial

Submission Details and Assessment Criteria

You must create your own document (pdf), which you will upload to Canvas, with the following details:

- Your name and student id
- Your tutor's name
- Details (name and ID numbers) of your group members, if any
- Your own responses to the tasks according to the corresponding instructions (see below)

Tasks and Instructions

You will be updating and completing the document in the "03_R_Design_Template.docx".

1. Suggest two different solution directions (e.g. Web based application or "desktop-only")
2. Perform gap analysis (e.g. KoST – Knowledge, Skill, Technology) to compare these two solutions (you need to detail your reasoning as your justification for your group's decision). Things to be considered may include, but not limited to, the following:
 - a. Problem domain
 - b. Solution domain
 - c. Team members' knowledge in the company / business (Knowledge gap)
 - d. Team members' experience in the programming language, skills, API, database server used etc. (Skill gap)
 - e. Any similar software / availability of current technology (Technology gap)
3. Choose one as your proposed solution direction and justify your choice
4. Based on your chosen solution direction above:
 - a. Develop a high-level design (aka architecture diagram) indicating each tier in your design (e.g. web client, desktop client, business logic component, data component, and database server)
 - b. Give a brief description of each component in your high-level design diagram and state their roles and responsibilities

Note: Since you will be developing the software based on your high-level design, it must be realistic.

Once completed, your team need to submit the group's final decision on the solution direction and solution design of the project. Also included are individual member's comments (one – two paragraphs) on whether they agree with the final decision with reasons (i.e. why you agree or disagree with the group). Remember to convert your document to pdf as mentioned above.