

Project Description

Objective

Writing a software development plan for a video streaming system like Youtube.

Scenario

Assume that your team has extensive software development experience. Further assume that Amazon recently announced a plan to offer video streaming services and decided to outsource the project through a competitive bidding process. Your team is bidding for this project.

Required activities and elements to be included

Assuming your team participates in the bidding process, write a project report including your team's software development plan for the project. Your project report must include at least the following items:

- **Project title and team information**

Include project title, team name (optional), names and email addresses of all members, % contribution made by each member. If your team cannot reach a consensus on individual contribution, specify the individual's claimed percent contribution with a brief description about tasks performed.

Note: put your project title and team information **on the first page**. DO NOT include any additional cover page other than this title page.

- **Executive summary**

Give a brief description about what the reader can expect from this report, your project, significance and benefits, basically justifying your project plan. This section should **NOT exceed ONE page**.

- **Table of contents**

- **Introduction**

In this section, describe the motivation and necessary background for the reader to understand your project.

- **Product vision, project goals, and scope**

- **Major proposed requirements**

Your team needs to come up with the necessary requirements based on your knowledge, known information about the project, and your own realistic assumption. Include both functional and non-functional requirements, illustrating key features of your proposed project. However, a comprehensive requirements specification is NOT necessary.

- **Software development process model**

Briefly justify why you choose the selected process model for this project.

- **Work/feature breakdown structure**
- **Team organization and capability**
- **Time, effort, and cost estimation**
Estimate time, effort, and cost. Clearly specify the **detailed process** and **specific methods** used for your estimation. Your project plan should be clear enough on how long it will take (in **months**), how many people (**number of software engineers**) will be needed, and how much the project will cost, the **total dollar amount**.
- **Risk management plan**
- **Release plan and Iteration plan**
- **Project schedule**
Include proper **milestones** such as timeline, deliverables, etc. based on the selected software development process model.
- **References** if any (optional)

Optionally, your team is allowed to add other items related to the project to make your project plan complete and appealing if necessary.

Tips:

- Pretend that someone other than me with only basic software engineering background will read your report, which means that you write a self-contained report without much of assumption.
- Use of **hierarchical numbering** for section numbers is **strongly recommended** for the organization of your report. You can easily find examples of common section numbering in textbooks or technical articles.

Note: Since your team is to write a project plan, you are not expected to provide any technical solutions to the problems of the system although your team can try it.

Required report format and style

- Use 1.5 line spacing.
- Use Times new roman, 12-point font size.
- If possible, try to include **all the artifacts** created for the project in your project report.
- You are **NOT** allowed to share the content/document **between groups** although discussion on general ideas between groups is allowed.

Project Calendar

<i><u>Deliverables</u></i>	<i><u>Due date</u></i>	<i><u>Points</u></i>
Signup form	6/4	5
Project draft Part I	6/13	5 (not graded but will receive comments)
Project draft Part II	6/20	5 (not graded but will receive comments)
Final version	6/27	85

****Note:** 5 points will be deducted each time a **project draft** is not submitted on time.*

What and how to turn in

- Include all the artifacts you created in one report document. If that is not possible, you must upload only one zipped or compressed file including one report file and other related artifacts.
- Upload only one file for each team to the Titanium. **DO NOT** submit multiple files or I may lose your files which may negatively affect your grade.

Grading Criteria

The project will be graded based on the overall quality, writing, and effort.

Note: Writing is very important not only because of the writing requirements but also poorly written report will influence the level of my understanding on your hard work. So make sure you carefully proof-read the final version of your report.