

Document Contents: All milestone documents produced for this class must include the following sections

1. *Title page:* This page must contain the team's name and the document title, and must have the signatures of all the team members. A team member's signature indicates that they have read and approve the contents of the entire document and not just the portion they are responsible for.
2. *Table of Contents:* Every section and sub-section in the document along with the page numbers should be mentioned here. If you are using Microsoft Word, use the Table of Contents wizard. If you are using Latex, this is automatically generated for you.
3. *Executive Summary:* This will be the first section in the document and must briefly summarize the contents of this document.
4. *Introduction:* This will be the second section of the document and will state the purpose of the document and its relation to the rest of the milestones and the software development life cycle.
5. *Main Content:* This will be the main content portion of the document. Follow the template given in the book for the various milestones. The book does not have templates for a Quality Assurance Plan and a Usability Report. Sample copies will be made available in Angel.
6. *References:* Any paper, website or any other external resource you might use to write your milestone document has to be duly referenced. If you are using Microsoft Word, we recommend the use of Endnote. If you are using Latex, you can achieve similar results by using bibtex.
7. *Appendix:* Any extra information that improves the overall readability of the document.
8. *Index:* An index of popular words and the pages they are mentioned.
9. *Glossary:* A list of words (that might be new to the reader) along with their definitions.

Milestone 1 Main Content: Here is a rough sketch of what the main content for Milestone 1 should resemble

- a) Client Background – What the client does? It must describe what the client does, both in a broad overall sense and in day-to-day affairs, and describe how the project will fit into the day-to-day workings for the client. Use this section to provide a general overview; specifics can be given in the next section.
- b) Current System – A brief description of the current system(if any) and identify its features
- c) User Description - Use this section to identify your users(other stakeholders) and how they will use the system. Must contain the following subsections
 1. User Profiles (See page 439 of requirements text)
 2. User Environment(See page 439 of requirements text)
 3. Key User Needs – List the key problems or needs as perceived by the user. For each user need, answer the following questions
 - i. What is the need? (Use the problem statement template shown in Page 46 of requirements text)
 - ii. How is it solved now?
 - iii. What is a possible solution?
 4. Alternatives and Competition (See page 440 of requirements text)

- d) Product Overview – Use it to provide a high level overview of your proposed system. It must contain the following subsections
 - 1. Product perspective (See page 440 of requirements text)
 - 2. Elevator Statement/pitch as discussed in class
 - 3. Summary of Capabilities(See page 441 of requirements text)
 - 4. Assumptions and Dependencies(See page 441 of requirements text)
 - 5. Rough Estimate of the Cost
- e) Features
 - 1. Describe the attributes you have chosen and their meanings (See page 442 of requirements text)
 - 2. Provide a listing of features (See page 425 of requirements text)
- f) Solution Constraints (See Page56 of requirements text)
- g) Project Plan in Microsoft Project.

Milestone 2 Main Content: Here is a rough sketch of what the main content for Milestone 3 should look like

- a) Include any relevant sections from Milestone 1 that might be relevant to understand this document. My suggestion would be sections C and E, but include what you see fit
- b) Use Cases: For each use case that you identify, follow the template discussed in page 450 of requirements text. See page 427 for an example.
- c) Table to Map the use cases to the various listed features of the system.
- d) Data flow Diagrams: Do context, Level 0, Level 1(as many levels as needed) to explain the flow of data for both the current and proposed systems.
- e) Updated Project Plan in Microsoft Project.

Milestone 3 Main Content: Here is a rough sketch of what the main content for Milestone 3 should look like

- a) Include any relevant sections from Milestone 1 and 2 that might be relevant to understand this document.
- b) For the supplementary specification, follow the template from Appendix D (See Page 453 of requirements text)
- c) Overall Interaction Architecture – A chart diagram which shows how the various interface screens are linked up
- d) The Actual interface screens – have explanations for each screen and map the use cases/features they represent/support.
- e) Updated Project Plan in Microsoft Project.

Milestone 4 Main Content: Here is a rough sketch of what the main content for Milestone 4 should look like

- a) Include any relevant sections from Milestone 1, 2 and 3 that might be relevant to understand this document

- b) Data Design (Extra Credit) – The data design section describes the data structure to be used by the system. For most projects in this class, it will be a relational database document with relational schema.
- c) Architecture – The architecture section details the specific pieces of the system, how these pieces interact and how they meet the systems requirements. Provide a top level of the system architecture (the various modules and their interaction) and for each module; provide the various functions (arguments, description, and name). Remember to link up the use case scenarios to the various function descriptions.
- d) Test cases – For each use case or function that is listed in the previous section (make a choice) provide a test case that can be used to verify it. If you follow the use case approach, look at chapter 26. If you are using the function approach, talk to me and I will provide with you a template.
- e) Updated Project Plan in Microsoft Project.

Milestone 5 Main Content: Here is a rough sketch of what the main content for Milestone 5 should look like

- a) Include any relevant sections from Milestone 1, 2,3 and 4 that might be relevant to understand this document
- b) Usability Report – Follow the template document posted in Angel.
- c) Overall Interaction Architecture – A chart diagram which shows how the various interface screens are linked up
- d) The redesigned interface screens – have explanations for each screen and map the use cases/features they represent/support.
- e) Updated Project Plan in Microsoft Project.

Final Deliverables: I will not provide you with a template for any of the deliverables. I want you to work as a team to figure out the best way to present the requested details. Your project manager and I will be happy to look at it and provide you with feedback.