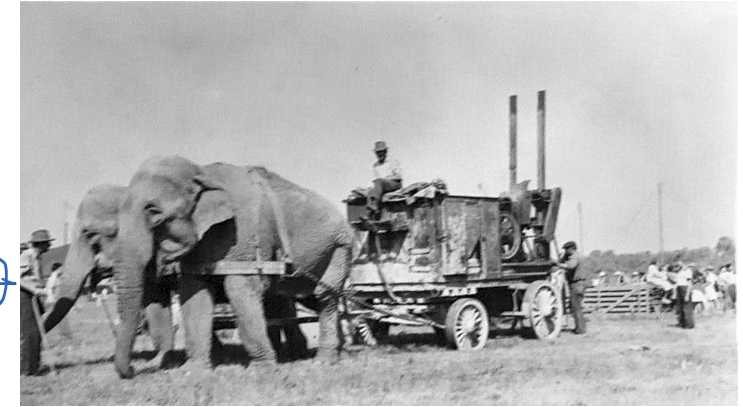# Lecture 14
SRS Template

Wikimedia commons

Com S/SE 409/509

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Robyn's Office Hours: **Tues & Thurs, 9:30-10:45**
Wandi's Office Hours: **Mon 10 am**. & **Wed 7 pm**
Olukorede's Office Hours--**Wed 10**

HW3 is posted; due 10/15

Review: SRS* template (Chap. 16; also Appendix A)

Standard guide to topics that belong in an SRS (p. 292 ff)

Template in Chap. 16 is similar to IEEE standard

Template has 5 parts, divided into 27 sections:

  Project Drivers: Sections 1-2

  Project Constraints: Sections 3-5

  Functional Requirements: Sections 6-9

  Nonfunctional Requirements. Sections 10-17

  Project Issues: Sections 18-27

Project deliverable will be an SRS for EverGreen

*Software Requirements Specification

SRS template

Part I. **Project Drivers:**

What is the need for the product & who wants it?

1. Purpose of project
   business problem & goal--how this solves problem
2. Stakeholders

Part II. **Project Constraints**

Restrictions placed on the requirements & design space

3. Mandated constraints

4. Naming conventions & terminology

   "all projects have their own unique vocabulary"

5. Relevant facts & assumptions → *change during development ; post-deployment*

   Ex: Roads that have been treated don't need to be re-treated for at least 2 hours.

SRS template

Part III. **Functional Requirements**

6. Scope of the work

   context diagram

7. Business data model & data dictionary

8. Scope of the product

   product use case diagram & scenarios

9. Functional requirements (Chap. 10, 12) puc scenarios ← FR

   & their fit criteria, rationale, priority, trace links backwards to use cases & scenarios

   testable   why?

SRS template

8 types

Part IV. **Nonfunctional Requirements (Chap. 11)**

& the fit criteria, rationale, priority, trace links backwards to use cases & scenarios for each

testable

10. Look & feel

11. Usability & humanity

12. Performance

13. Operational & environmental

14. Maintainability & support

15. Security

16. Cultural

17. Legal

SRS template

Part V. **Project Issues**

[Robyn agrees with textbook that these should be documented; thinks most belong elsewhere, not in the SRS]

18. Open issues — *not resolved*
19. Off-the-shelf solutions   [& OSS] — *COTS*
20. New problems — *deployment may cause add'l problems.*
21. Tasks
22. Migration to the new product — *process*
23. Risks   More on this later — *Risk-driven development*
24. Costs   More on this later
25. User documentation & training
26. Waiting room   backlog for requirements, features not in this release; more later
27. Ideas for solutions