



# What is a Project Report?

- Project report != documentation
- A project report should tell
  - What is your project?
  - Why did you choose the project?
  - How did you conduct the project?
  - What are the results/products/lessons of the project?
- A way to evaluate your technical writing skills

### Title

Don't be too generic

#### Abstract

Tell the whole story in 100 to 200 words

#### A good abstract

- Let people know you've done good work
- Make people want to read more

# Introduction Section

- A more elaborated version of the abstract
- Focuses on
  - Motivation
  - Project highlights



- Introduce the tools/libraries/platforms you used to build you project
- The purpose is to help people understand your project, i.e. not advertisement for the technologies
  - Assume your readers are students who just took CS202
  - Be clear about the connections between different pieces

#### System Overview

- The Big Picture of your project
- Descriptions of the interaction between different components, overall work flow etc.

# Design and Implementation ...

- Design (or feature design), is how things should be
  - E.g. The system support several types of users ...
- Implementation is how things are done
  - E.g. Each user type is implemented as a subclass of a User class ..

# ... Design and Implementation

- Writing about design and implementation is not easy
  - Choose the right *level of details*
- Topics that are usually interesting and/or important
  - Performance
  - Security
- Improvement of user experience
- Insights, insights, insights

### System Evaluation

- Results produced
- Comparison with other systems
- Load testing

# **Conclusion Section**

- Reiterate your achievements
- Emphasize lessons learned and insights gained

# Appendices

- API documentation
- Database schema
- User manual
- Source code
- ۰...

# Some Technical Writing Do's and Don'ts

- Use formal language
- Use diagrams and figures
- Use tables
- Don't overuse pictures and screenshots
- Don't overuse bullets
- Don't overuse passive voice
- ♦Use "We" instead of "I"

#### Past CS491 Reports

- All CS491 project reports are available at <u>http://cs.calstatela.edu/abet/cs491/index.htm</u> <u>l</u>
- Some good reports
  - Matthew's ProgFest 2005 Platform
  - Chris's Deep Space 2
  - Andrew's CodeSimian
  - Cheralyn's Cupboard 2.0
  - Christopher's LemGen
  - Kelly's Content-based Image Organization

### More Good Reports

Andres's 3D Surface Explorer
Eugene's Project Black Widow