

**Deliverable:** #2 - Project Architectural & Design Goals  
**Due Date:** October 13 @ 0800 via e-mail  
**Title:** SE2: Software Design and Architecture.  
**Course ID:** CS 446, SE 464, ECE 452, CS 646

**WWW:** <http://www.cs.uwaterloo.ca/~rtholmes/teaching/2011fall/cs446/index.html>  
**Twitter:** <https://twitter.com/cs446>

**Lectures:** Tuesday & Thursday 1600 - 1720 MC 1056  
**Tutorials:** Friday 1430 - 1520 MC 4060

**Instructor:** Dr. Reid Holmes; DC 3351. Office hours by appointment. [rth.se2@gmail.com](mailto:rth.se2@gmail.com)  
**TAs:** Kevin Shelley; DC 3334. Office hours by appointment. [karshell@cs.uwaterloo.ca](mailto:karshell@cs.uwaterloo.ca)  
Wei Wang; DC 3334. Office hours by appointment. [w65wang2cs.uwaterloo.ca](mailto:w65wang2cs.uwaterloo.ca)

### Description:

Your project proposals provided an overview of the functionality you aim to provide; the proposals also gave some insight into the non-functional, or quality, attributes you want your team's app to exhibit. Non-functional properties essentially impose constraints on your system's behaviour. The intent of this deliverable is to precisely describe the quality attributes you will address for your app. For each quality attribute, motivate why it is important to your app, quantify how you will be able to measure that you have met the constraint, and describe how this constraint will influence how you will construct your software architecture. Keep the materials covered in lectures 2 & 4-8 in mind while working on this assignment.

There will also be an individual component of this deliverable: What risks are there that could impact your app? How will you and your team mitigate these the risks?

### Team deliverable:

1. Metadata: Project title, team member names, team member Quest IDs.
2. What NFPs will your app support? Why these? How will you measure them? How will each NFP impact your future architectural decisions? (At most 4 pages)
3. Only one team member needs email this document to [rth.se2@gmail.com](mailto:rth.se2@gmail.com). PDF only.  
File naming scheme: `cs446-d2_<project-name>.pdf`  
\* (use - instead of space in file names)

### Individual deliverable:

1. Metadata: Project title, your name, your Quest ID.
2. Describe the risks that may impact your app and how you and your team will mitigate them. (1 page)
3. Each student needs email this document to [rth.se2@gmail.com](mailto:rth.se2@gmail.com). PDF only.  
File naming scheme: `cs446-d2_<project-name>_<your-quest-id>.pdf`  
\* (use - instead of space in file names)

### Assessment:

This deliverable is worth 10% of your final grade. The group component is worth 60% of the deliverable mark; the individual component constitutes the remaining 40%.