

**Deliverable:** #2 - Project Architecture Description  
**Title:** SE2: Software Design and Architecture.  
**Course ID:** CS 446, SE 464, ECE 452, CS 646

**WWW:** <http://www.cs.uwaterloo.ca/~rtholmes/teaching/2013winter/cs446/index.html>

**Twitter:** <https://twitter.com/cs446>

**Lectures:** Monday, Wednesday, & Friday: 0830 - 0920, MC 4041

**Instructor:** Dr. Reid Holmes; DC 3351. Office hours by appointment. [rth.se2@gmail.com](mailto:rth.se2@gmail.com)

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### 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. In class we have described a variety of system architectures each of which has some strengths and weaknesses. The intent of this deliverable is to identify, describe, and justify the architecture of your project. Do not be constrained by the individual architectures we described in class; it is perfectly fine if a heterogeneous style (or another style we did not describe) better suits your domain.

The outcome of this deliverable is a system architecture that supports the functional goals and non-functional attributes of your project. Non-functional attributes should be specific enough to tell whether or not your app has them. Note: a two-box client/server component diagram will be insufficient here. For example, every BB10 service you interact with (e.g., NFC, Geolocation, Contacts, etc.) should be clearly identified and can be treated as individual components; you should investigate their API in advance to ensure the components provide what your app requires.

The deliverable has two parts; a written team deliverable and an oral deliverable where your team will meet with us to discuss the architecture of your system. The written component should clearly and succinctly capture and justify the architecture of your system. This description can be at most 4 pages (2 pages of text and 2 pages of diagrams).

### Team deliverable:

1. Metadata: Project title, team member names, team member Quest IDs.
2. Architectural description (4 page maximum).
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)

### Oral deliverable:

1. Sign up for meeting slot online: <http://doodle.com/akgmgnav67vpas9y> make sure your whole team can attend. All meetings will be held in DC 2314 (behind the main CS office).
2. The slot is 30 minutes and will start with you giving a 5 minute oral description of your system's architecture. No slides can be used, but you are encouraged to make use of the whiteboard.
3. The remainder of the slot will be used to discuss the architecture with each of you. Some questions will be for the group, others will be for specific individuals. Being able to clearly and unambiguously justify your architectural decisions will be fundamental to success here.

### Assessment:

This deliverable is worth 20% of your final grade. The written component is worth 50% of the deliverable mark; the oral component constitutes the remaining 50% (split 50/50 between a group score and an individual score).