**Final Report Guideline**

**Due date**: Dec. 9, 2016

The primary goal of this report is to complete the project design for a software system construction. The main objectives of this phase include:

* Complete the project design
* Create an executable architecture for software construction
* Develop test plan

To successfully complete this phase your team must produce the following deliverables:

**Application development team**

* A finalized vision document
* A finalized use-case model with the use-case descriptions
* A finalized supplementary requirements, if applicable
* Non-functional requirements that are not associated with a specific use-case
* This document can be combined with vision document
* **Software architecture document(s) such as UML components (class) diagram(s)**
* The high level outline of a software system presenting major software components and their interactions
* **UML sequence diagram or similar diagram that shows detail operations of use-cases in order**
* **Create an executable architecture**: A partial implementation of the system to validate the software architecture and serve as a foundation for the remaining software construction
* **Test plan**
* Revised overall project plan that details tasks, schedule and resources while focusing on those for software construction phase; Create baselines for construction
* The revised project plan must contain (1) the activities performed at the previous phases, who performed them, and start/end dates for each; and (2) the planned schedule for the next phase. For each activity and team member you must keep track of actual effort and record it to the nearest quarter-hour.
* A finalized risk assessment
* A refined project glossary (This document can be combined with Vision document)

**Research-focused team**

* A finalized vision document
* A finalized use-case model with the use-case descriptions
* A finalized supplementary requirements, if applicable
* Non-functional requirements that are not associated with a specific use-case
* This document can be combined with vision document
* **Software design document/diagram for the software construction**
* **Create an executable architecture, if applicable**
* **Simplified test plan** that demonstrates the software satisfies the major requirements
* Revised overall project plan that details tasks, schedule and resources while focusing on those for software construction phase; Create baselines for construction
* It can be a narrative schedule, describing the steps for project implementation, final report preparation, and specification of tasks distribution among team members
* The revised project plan must contain (1) the activities performed at the previous phases, who performed them, and start/end dates for each; and (2) the planned schedule for the next phase. For each activity and team member you must also keep track of actual effort and record it to the nearest quarter-hour.
* **Summary of related research papers or background section of the CS465 final report**
* A finalized list of major technical risks of the project
* Data collection plan, data description, resources to be utilized, usability testing plan, if applicable
* **Highly recommend to draft the introduction section of the CS465 final report**

**Submission**

* Assign the file name based on the following format

“Assignment Document Name - Team Number”

Ex) Final Vision Document - Team#1

Final Use-case Model - Team#1

* Compress all deliverables to a single file and submit the file on a USB memory or CD to your project advisor, project sponsor, and course director.

**Notes**

* Couples of example docs for developing software design document/diagrams are available on the Blackboard course site.

**Evaluation**

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| **Application development Team** | **Research-focused Team** |
| 25 Software architecture document  25 UML sequence diagram(s)  20 An executable architecture  10 Test plan  5 A finalized vision document  5 A finalized use-case model  5 A finalized risk assessment  5 Revised project plan | 35 Software design document/diagrams  10 Simplified test plan  30 Introduction and background section  5 A finalized vision document  10 A finalized use-case model  5 Revised project plan  5 A finalized list of major technical risks |