Project Requirements & Design 20 pts See D2L Due Date

Note: If you re-upload your files to D2L, you must re-upload ALL files as the system keeps the most recent uploaded submission only. No zip files!

GENERAL SUBMISSION REQUIREMENTS

Upload all files individually as specified, not as zip files, to Assignments in D2L. Do not email files.

Late penalties of 10% per day are in effect for this Deliverable.

DO NOT INCLUDE THIS DOCUMENT WITH YOUR SUBMISSION

**Objective:** To establish your Sr. Project Team has requirements and design documentation.

This is a Group assignment, and **every Group must submit 2 documents**. If you are in a Group that is registered over multiple sections then each section must submit documents in that section. If you are on one, check your D2L assignment due dates often !

This assignment is a combined Requirements and Design document assignment for all different types of projects. The difference for the types of project teams is outlined below. Every Group must submit these documents no matter what type of project.

This deliverable consists of two documents, a Software Requirements Specification (SRS) and a Software Design Document (SDD) and each doc is worth 10 points so the total assignment is worth 20 points.

If your Group is working on a software product type of project, where you produce something that someone can use personally, then you should produce a Software Requirement Spec (SRS) type document. Review the examples we’ve reviewed that are posted in D2L. Use the TEMPLATE to get started. Remember the SRSs are “menus” so select what makes sense. Minimum of one page of functional requirements are needed in this version of the SRS.

**Cover Page FOR EACH DOUMENT**

All submissions require a cover page with the following information:

Project Number (and color if applicable) and Title of your Project at the top of the page

Tell what the document is (Requirements (SRS) or Design (SDD) doc )

Below the title include

Course Number and Section, Semester, Year

Date and My Name

NEXT include the HEAD SHOT of each member with their name below their pic –

And now we DROP the contact information.

**INSTRUCTIONS FOR BOTH DOCUMENTS SRS AND SDD – By Category**

**REVIEW THE TYPE OF DELIVERABLES FOR YOUR TYPE OF PROJECT**

The four different categories of projects are:

1. Mobile / Desktop / Other App Projected
2. Research Projects
3. Industry Projects
4. Software Projects: Chess AI, game engine, ConLang, Data Poisoning, EVT, etc
5. **MOBILE / DESKTOP and OTHER APPS**

**Requirements Document**

Example of functional requirements section

1.0 Launch Page

R 1.1 Login button redirects to login page

R 1.2 Register button redirect to create account page

2.0 Login Page

R 2.1 Login with username

R 2.1 Password

R 2.3 Recover password (optional)

3.0 Register - Create Account – Page

Email (this is your user name ? clarify)

Password

First Name

Last Name

Phone

4.0 ?? now start listing YOUR requirements

**Design Document**

If your Group is working on a software product type of project, where you produce something that someone can use personally, then you should produce a Software Design Document (SDD) type document. Use the examples we’ve reviewed, that are posted in D2L and included at the end of this document. Remember the SDDs are “menus” so select what makes sense. Minimum of two pages of description and diagrams of your technology platform or process flow are required in the SDD. Start by listing the FEATURES of your app to find requirements.

You update as needed and include updates in Draft and Final Reports

Examples of design diagrams and mockups are available at the end of this document.

ALL MOBILE APP PROJECTS REQUIRE ALL MEMBERS OF TEAM TO DO TUTORIAL – Get screenshots of “last page” and add them as an Appendix to your SDD.

1. **RESEARCH PROJECTS**

**Requirements Document**

If your Group is working on an Research project, then you should produce a list of activities to outline what work is happening in your project - as a requirements document. Document what your faculty advisor is telling you to do for the research – initially **list the activities** you are required to do. Features will evolve. Minimum of one page of activities/requirements at this point.

EXAMPLE of Research Project Requirements (taken from YS-12 Open Source Cloud)

Review and study the tutorial links listed in the assignment

cloud platform

mapreduce

sites.google.com

Activities

Identify tasks

Use MapReduce FW to complete two or more tasks

All teams create Google site to demo cloud tasks on diff cloud platforms

ex https://sites.google.com/view/blockchainlabware - set to public or private

your site organization style - left navigation with modules

create module 0 - initial knowledge and concepts

create module N

for each cloud platform (repeat for each cloud platform min 4)

in each module

describe services available on free acct for students

describe how to set up MapReduce FW on azure, google, aws

how to implement word count program with MapReduce

using MapReduce Paradigm

describe: how many mappers, reducers and amount of time

then compare across cloud platforms

repeat

create module for comparison of cloud platforms

specific references provided for each project

**Design Document**

If your Group is working on a Research project, then you should describe the technologies that are used in your research and develop an architectural drawing to demonstrate the technology platform in your project - as a design document. Minimum of one page of description and diagrams of your technology platform or process flow are required.

You update as needed and include updates in Draft and Final Reports – or IEEE paper.

Course assignments -> D2L BUT Final Paper format is determined by Faculty Advisor.

**Ask Faculty what they want in the Final Paper !!**

Examples of design diagrams and mockups are available at the end of this document.

1. **INDUSTRY PROJECTS**

**Requirements Document**

If your Group is working on an Industry project, then you should produce a high level description of your project requirements as a document. Use the examples we’ve reviewed that are posted in D2L, and shown in other sections of this document.

Your requirements are specific to your project.

You update as needed and include updates in Draft and Final Reports

Examples of design diagrams and mockups are available at the end of this document.

**Design Document**

If your Group is working on an Industry Project, then you should describe the technologies that are used in your project and develop an architectural drawing to demonstrate the technology platform in your project - as a design document. Minimum of two pages of description and diagrams of your technology platform or process flow are required.

You update as needed and include updates in Draft and Final Reports.

Course assignments -> D2L BUT Final Package may be determined by Industry Advisor.

**Ask Industry what they want in the Final Package !!**

Examples of design diagrams and mockups are available at the end of this document.

1. **SOFTWARE PROJECT: Chess AI, Game Engine, Plug-In & EVT etc**

**Requirements Document**

These teams are a straight up software projects and an SRS and SDD are a good fit for you. Follow the approach as outlined in those docs. SRS needs functional requirements – other requirements are optional

Use the examples we’ve reviewed that are posted in D2L and shown in other sections of this document. Your requirements will be specific to your projects.

**Design Document**

If your Group is working on a Software Project, then you should describe the technologies that are used in your project and develop architectural drawings to demonstrate the technology platform in your project. Minimum of two pages of descriptions and diagrams of your technology platform or process flow are required at this stage.

You update as needed and include updates in Draft and Final Reports.

Course assignments -> D2L

Examples of design diagrams and mockups are available at the end of this document.

**DELIVERABLE INSTRUCTIONS**

ALWAYS RUN SPELL CHECK ! ! !

You will submit two documents:

Document 1 is named ProjectD-Color-Title-Requirements.docx or .pdf

Document 2 is named ProjectD-Color-Title-Design.docx or .pdf

Keep title simple. Use one or two words.

If you resubmit ONE document you must resubmit BOTH – only the latest submission is kept.

Last step is to submit the assignment doc/pdf file to D2L by the due date.

**No zip file or email submissions are accepted.**

**Late penalties of 10% per day are in effect for this assignment.**

**EXAMPLES OF MOCKUPS and DESIGN DIAGRAMS**

EXAMPLE - Mobile App Mockups

**A screenshot of a login screen

Description automatically generated**

EXAMPLE – Process Flow

A diagram of a flowchart

Description automatically generated

EXAMPLE – Architecture Diagrams

A diagram of a diagram

Description automatically generated

A diagram of a computer system

Description automatically generated with medium confidence

A diagram of a structure

Description automatically generated