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| **Computer Science Capstone I** | | |
| CSE 485 | Requirements Document | Fall 2016 |

This document is a technical breakdown of the requirements comprising your team’s project. For this document, you will detail these requirements at the finest level of detail possible, including use cases and expected outputs. The following sections are required for this document:

**Title Page**

Include “Requirements Document” in large text, name of project, name of team members, current version number, date of last modification.

**Table of Contents**

Name and page number of each section of the document.

**Introduction**

Introduce the project and its purpose, give the main objectives and the scope of the project, (optional) include a table with any technical terms, abbreviations, etc. and their meaning, (optional) include a “references” subsection with all references cited elsewhere in your document, if relevant.

**Overview**

Describe (in more technical detail than in the introduction) the product/system/concept/idea you are developing. (optional) Include a diagram of your system if relevant (for example. a UML diagram). Introduce and list each of the “actors” (AKA users) for your product (make a table listing each actor with a brief description of that actor). Then for each actor, list out the goals of the product for that particular actor.

For example:

Actors:

|  |  |
| --- | --- |
| **Name** | **Description** |
| CIDSE Student | Student enrolled in undergraduate CIDSE courses at ASU using Blackboard, |
| CIDSE Instructor | Instructors of undergraduate CIDSE courses at ASU using Blackboard for online assignment distribution |

Goals:

CIDSE Student:

* Facilitate easier access to assignments and grades through a cleaner, more student-friendly interface
* Allow student to give feedback on each assignment using a web-based feedback module

CIDSE Instructor:

* More detailed breakdown of student performance on assignments, including automatic error-highlighting for incorrect syntax in code submission
* Advanced cheat detection through smart comparison with online code repositories

**Assumptions and Dependencies**

State in detail all assumptions and dependencies of your software. For example:

-Users of this software must be running Windows 8.1 or higher.

-User must be proficient in web development to fully utilize this tool

-The machine is assumed to be operated in an open space with sufficient lighting such that the camera can detect objects in space.

**Requirements**

This should be the most detailed section of your document. List and give a detailed description of all requirements for your project (**must give at least 8 requirements**). Give the following for each requirement:

1. Name the requirement.

2. Give a description of the requirement.

3. (For Functional Requirements or Features Only) Provide a use-case diagram showing how the requirement would be applied. **Must provide at least 3 use case diagrams.**

4. (For Functional Requirements or Features Only) Provide a user story illustrating a requirement from the perspective of a user/actor. **Must provide at least 3 user stories.**

For example:

**Actor:** Restaurant Customer

**Name:** Process Order

**Description:** After a customer has submitted an order from the digital menu, convey the order to the kitchen and waiting staff and provide a total and ETA to the customer based on the order queue.

**Diagram:**

Order

Registration

Table Orders

Order

Queue

Customer

Kitchen Staff

Waiting Staff

*Hamburger, Cola, Brownie Dessert, $12.99*

*Total: $12.99*

*Est. Wait Time: 24 min.*

Register Order

Forward Order

*Table 12 Add: Hamburger, Cola, Brownie Dessert*

*New Order: Hamburger, Cola, Brownie Dessert*

**User Story:** *“As a restaurant customer, I want to be able to order from the menu at my convenience, without having to call on a waiter/waitress, so that I can browse the menu at my leisure.”*

You may use whatever format/organization you choose for this section (for example, top-down hierarchical representation of requirements starting at higher-level system requirements down to lower-level module requirements, or user/actor-based representation where a set of requirements is detailed for each user.)

**Submission:**

One requirements document per team should be submitted via the assignment link on Blackboard no later than Sunday, November 6th 2016 by 11:59PM. Late submissions will not be accepted.

**Rubric:**

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| **Item** | **Requirement** | **Points** |
| Title Page | Title of document, title of project, team member names | 4 |
| Table of Contents | Header, page number for each section | 4 |
| Introduction | Purpose, main objectives, scope of project | 4 |
| Overview | Project Description (at least 2 paragraphs), Actors Table (at least 2 actors), Goals List (at least 2 goals per actor) | 8 |
| Assumptions and Dependencies | At least three items listed total | 4 |
| Requirements | At least 8 requirements listed, at least 3 of which must be functional requirements. For each requirement, name and description. At least 3 use-case diagrams shown. At least 3 user stories shown. | 24 |