# CS 3560 - Course Project – Version 1
# Maximum Points: 100 pts (25% of the course grade*).

## [1 point] Cover page (see example below)

Project Title
Team Members

**Cover Page Example**

Development and Management of the Project: [Name of the Project]

Team Members

| | Student 1 | Student 2 | Student 3 | Student 4 | Student 5 |
|---|---|---|---|---|---|
| Name | [Name of Student] | [Name of Student] | [Name of Student] | [Name of Student] | [Name of Student] |

## [2 point] List of Content (new page)
## [1 point] List of Figures (new page)
## [1 point] List of Tables (new page)

**List of Content Example**



* The other 5% of the course grade will be assigned to the project presentation.

## [15 points] Project Plan (new page)

### Introduction

System-As-Is

System-To-Be

### Organization of the Project

Specification of the roles (project manager, analyst, programmer, tester, etc.) and their responsibilities

### Methods and techniques

Description of the methods and techniques to be used during design and implementation

## [15 points] Requirements Specification (new page)

### Functional Requirements

List all functional requirements (FR) and their corresponding rationale. FRs should be grouped by categories and must have a unique identifier.

### Assumptions

List all system assumptions and their corresponding rationale. Assumptions must be grouped by categories if more than one is specified.

## [30 points] Design (new page)

### Domain Model (Class Diagram)

Recommended tool: *Astah* - https://astah.net/.

### Object-Oriented Model (Updated Class Diagram)

Recommended tool: *Astah* - https://astah.net/.

### Entity Relationship Diagram (data conceptual model)

Recommended tool: *Draw.io* – https://www.diagrams.net/.

### Data Logical Model

Recommended tool: *pgAdmin* - *https://www.postgresql.org/.*

## [30 points] Implementation (new page)

### GitHub repository with the software project including:

#### Graphical User Interface:

*Java Swing* or *Java FX* must be used.

#### Source-Code and Configuration Files

All implemented classes and used frameworks. *Java* is required - https://www.oracle.com/java/.

#### Persistence:

ORM implementation. *Hibernate* must be used - https://hibernate.org/. However, JDBC https://jdbc.postgresql.org/download/ is allowed for some cases as well.

#### Data Physical Model

*PostgreSQL* must be used - https://www.postgresql.org/.

### A minimum 5 and maximum 10-minute video containing a project demonstration.

## [4 points] Discussion (new page)

Analysis of the results obtained, and lessons learned.

## [1 point] References

## Appendix (optional)