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| Course | CSIS 3280 | Section | 002 | Term | Summer 2020 |
| Professor | Bambang A.B. Sarif | | | | |
| Project | Student Registration Application | | | | |

# Introduction

The purpose of this project. Mention the goals and key objectives of the project. How all the entities interconnect to create our application. **max 3 pages**

# Scope

## Group Members and Resposibilities

- Specify your group members and the entities they are responsible for.

* Fernando Viana Maia - 300320728
* Joel Giladi - 300302313
* Qiuming Wei – 300312797

The following table is intended to show how we assigned the project tasks and entities.

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| Story | Artefacts | Responsible |
| Database design - Script | data/sql/CourseReg.sql | Joel |
| DB-Installation page | css/installdb.css  controller/InstallDBController.class.php  entity/InstallDBPage.class.php | Fernando |
| Log in/out page | css/styles.css  css/login.css  inc/entity/LogPage.class.php  controller/login.php  controller/logout.php | Qiuming |
| Main controller file Team1.php and common features | Team1.php  Inc/utility/Route.class.php  utility/LoginManager.class | Joel  Fernando  Qiuming |
| Course Registration | inc/entity/RegistrationPage.class.php  inc/utility/RegistrationUser.class.php | Joel |
| User entity | ../inc/entity/User.class.php  ../inc/utility/UserDAO.class.php | Qiuming |
| Tuition entity | inc/utility/TuitionDAO.class.php  inc/entity/Tuition.class.php | Fernando |

## Features

- Include a list of features you will implement and why these add value to your project.

For the administrator of this web application:

Automatic installation through page set

## Installation Procedure

- Include an installation manual, how to set up (database, folder structure, web alias, etc).

I think this section is just about mentioning the other document “User Manual (1 page)”. Maybe we could embed that document here.

## Technical Concepts

- Include a list with specific examples of how the technical concepts were implemented. See the following Data and Program Requirements:

* 1. The number of entities is at least equal to count($teamMember). The entities have cardinal relationships (1:1, 1:N, M:N) one of which is an associative entity.
  2. Entities must be stored in a Database and accessed using PDO.
  3. The application must support CRUD (Create, Read, Update and Delete) Items using PDO. This must be implemented for each entity.
  4. Users must be able to login; their credentials must be encrypted. The application must use sessions logging in and logging out.
  5. The application must have multiple HTML forms and pages.
  6. The application must be able to search and lookup data.
  7. Statistics must be shown for at least one entity.
  8. All input must be validated the appropriate events handled; proper English must be used.
  9. It must be easy to use and visually pleasing, professionally designed with effective use of layouts, text, page and content elements and user input elements.
  10. The above requirements are for passing the project. You should try your best to make your project stand out by integrating new technologies or topic that are not covered in the class.
  11. Additional features that extend beyond what we covered in class will be rewarded.

## Other Capabilities

- Include a list of the technologies that were implemented as an extension beyond what was covered in class.

* Dynamically invoking of PHP methods – Reflections.
* Dynamically invoking of PHP functions – Anonymous Functions
* Performing of regular expression matches in PHP and Apache module .htaccess
* ???

# References

* Reflections: <https://www.php.net/manual/en/reflectionmethod.invoke.php>, PDOService.class, execute\_direct($queryString, $parameters) method.
* Late Static Bindings: <https://www.php.net/manual/en/language.oop5.late-static-bindings.php>, SuperPage.class, renderContents() method.

# Revision

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| **Version Control** | | | |
| Version | Author | Change Description | Date |
| 1.0 | Fernando Viana Maia | Initial Version – Skeleton and responsibilities suggestion. | 07/18/2020 |
| 2.0 | Qiuming Wei | Specify group members’ responsibility | 07/31/2020 |
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