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| **Course: PRJ321 Java Web Application Development** | **Contribution: 40% of course** |
| This assignment should take an average student who is up-to-date with tutorial work approximately 5 weeks | |
| **Learning Outcomes:** LO1,LO2,LO3,LO4 | |

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| **Plagiarism** is presenting somebody else’s work as your own. It includes: copying information directly from the Web or books without referencing the material; submitting joint coursework as an individual effort; copying another student’s coursework; stealing or buying coursework from someone else and submitting it as your own work. Suspected plagiarism will be investigated and if found to have occurred will be dealt with failure of the course.  **All material copied or amended from any source (e.g. internet, books) must be referenced correctly according to the reference style you are using.** |

**Assignment Submission Requirements**

* Source code zipped in .zip file
* Report for software design
* Lack one of them, student will not allowed to do assignment’s demonstration.

**Detailed Specification**

You must provide a complete design and construct a Java web application.

Your report should include:

1. **A case study:** describes the system that you will implement (case study is not certain to be too detailed. It's just a paragraph so that the reader can understand the system that will be presented). You should mention the important issue, other detailed information can be presented in the form of Business rules.
2. **A database design:** comes with the interpretation (logical design, physical design).
3. **System design:** a detailed description of how you design the system. You should provide your understanding of your MVC architecture and how your application implemented. The diagrams (eg UML: deployment diagram, class diagrams, sequence diagrams, state chart ...) should be provided if necessary.

+ A detailed description of any new technologies you find out (not in school) to develop applications.

+ Coding convention should be clarified.

1. **Screenshot**: The screenshots and explanations (should have site map).
2. **Conclusion and Discussion**: the pros and cons of the application as well as your design. What you've learned anything through the development of this application. In the future, if having more time, what would you do to improve it?
3. **Contribution:** Evaluate the contribution of each member during the project

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| **Topic** | **Total**  **Effort** | **Actual** |
| **Case Study Analysis** | 100% | Ex: 40% |
| **Database design** | 100% |  |
| **System design** | 100% |  |
| **Implementation** | 100% |  |
| **Documentation** | 100% |  |

Your implementation:

* All source code must be zipped and uploaded to cms.
* Code’s comments are required

Your demonstration (10 minutes):

* You will be required to briefly demonstrate your system (slide should be prepared). Prepare to answer the lecturer’s questions

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| **Evaluation** | | |
| **Task** | **Score** | **Condition** |
| Case study | 10% | A case study certainly coherent |
| Database design | 10% | The database is designed as standard and structured in accordance with the business rules |
| System design | 20% | A design highlight the MVC pattern, the diagram used standard notations. |
| Screen shots | 5% | A complete guide and understandable on used screens |
| Conclusion and discussion | 5% | The personal opinions should be clarified. The knowledge learned should be highlighted. |
| Demonstration | 50% | Programs comply with the proposed design. Operation with good quality. |