# System Analysis and Design

**Assignment: Spring 2019**

**Lecturer: Buyang Cao**

**Part II: Analysis Model**

**Presentation: Thursday, April 18th, 2019**

**Due: Friday, May 10th, 2019, 7:00 pm**

**Mail To:** TA’s mail box

**Weight in course grade: 45**%

For Part II of the project you should provide an analysis model together with an system analysis document with the following structure

1. **Table of contents**
2. **Introduction**: a general description of (around 500) words that briefly re-states the goals of your course project and gives a concise account of progress made since the previous report (use case modelling). Indicate changes in the project, refinements, and current status.
3. **Architectural Analysis**: present the project in terms of high level architecture, sub-systems and detail the architectural decisions taken until the current stage. You should include at least one system-level diagram, for example, the layered architecture of the system. You should also provide textual descriptions for your system-level diagram.
4. **Analysis model (domain model):** focusing onthe application not the system design and implementation. It includes the following diagrams describing the business of the target organization
   * 1. Class diagram(s), with each key class (key abstraction) having major responsibilities, and important attributes in most cases.
     2. Relationship(s) between classes.
5. **Updated snapshots of the system’s user interface**: provide at least five (5) updated snapshots of the user interface, with accompanying descriptions. The format used in reports and statistics should be shown (if applicable), and samples of messages to the user should be provided.
6. **Annotated references:**describe how the project references (for instance, project domain book and two reference articles) relate to your project. The description for the book should be between 200 and 300 words, and for each article between 100 and 200 words.
7. **Contributions of team members.**

***Note: You must submit both the document and corresponding UML model (models can be included in the document).***

---------------------The End----------------------------

**分析和设计模型评分**

Group No: \_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- | --- |
| **No** | **内容** | **分数 （百分制）** |
| 1 | 正确理解课项目，对于项目有进一步的认识，能够详细合理地描述项目所要达到的目标。 | 15% |
| 2 | 答辩过程中，条理清晰，逻辑性强，重点突出，PPT版面美观，听众容易理解，能正确回答问题。 | 15% |
| 3 | 对于能够理解所教授的内容并且正确应用之，根据具体的问题，合理地利用所学到的知识点和有关的工具，开展相关的工作，有能力对工程中所面临的问题开展全面的分析，提出解决的方案。能够评价所提出的技术方案在实际中的可行性，并且能理解所提方案的局限性。  在问题的研究、分析、和解决过程中，能成功地应用课堂上所教授之外的，切实可行的资源、方法、技术、和工具，得到有效的结论。  具体的为：   * 正确掌握并使用分析模型，构建能够描述应用场景的domain model，以理解所要解决的问题. * 能够理解分析和设计的区别，并能在分析模型中体现出来。 * 理解系统架构概念，并采用合理的架构模式描述系统的架构。 * 掌握和正确使用类之间的关系（relationships）。 * UML的元素能在分析模型中被正确应用。 * 利用先进的分析工具开展系统分析的工作。 | 45% |
| 4 | 能够充分体现团队间各成员之间的合作，团队有明确的工作目标，各成员能够积极地承担各自角色所应担负的责任，并为团队所制定目标的实现做出贡献。  各成员工作量的具体体现。 | 15% |
| 5 | 团队以及团队成员能够充分体现出具有自主学习的能力，学习有关文献，了解当前的有关技术动向和趋势。  列出为解决相关问题所学习的参考文献，并对参考文献做简要的综述。 | 10% |
|  | *TOTAL* |  |