**General information:**

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| Study programme and class | Computer Science, DMO1401-3.semINT |
| Date and name of the teacher who has filled out the overview of contents and structure | February 2015, Tove Zöga Larsen |
| Semester | 3. Semester |
| Title of the project | A distributed system for Fynbus |
| ECTS points | 5 ECTS |
| What will the student have learnt/be able to do when having completed the subject/project? | The project is mandatorySubjects The Project involves the subjects *Software Architecture and Distributed Programs* (SDP), *Computer Network and Distributed Systems* (CDS) and *System Development Methods* (SDM). Purpose The purpose of the project is to give you an opportunity to work together and use what you've learned in a context. Goals When you've completed the project you'll be able to:   * Design and program a minor Distributed System implemented as a Web Application – available technologies are Web Services (WCF),Web Forms (ASP.NET) and MVC 4. * Design and document a distributed architecture and a distributed solution with the help of related design patterns. * Describe and argument for the used server setup and network communication. * Manage the quality in a project * Choose and use relevant system development techniques * Manage a minor project and document the process |
| Contents | Your task is to make a system for Fynbus. It´s a requirement that the system should be distributed and use webservices and webforms. |
| Method | SDP You have several technologies available: Web Services, Web Forms and MVC 4.  Data should be persistent in a SQL Server database. You may use Entity Framework for database access. CDS Answer the following questions, you have a maximum of 1 A4 page:   * What kind of server was used and what was the reason for this choice (also if none was used)? * Would it have been an advantage to use a different setup? * What network communication is sent and which network protocol is used? * Would it have been an advantage to use a different setup?  SDM You should decide one or two quality aspects that is the most important for Fynbus, set up goals for the product according to these aspects and evaluate your final result against these goals.  In the project you have to choose and use at least one new (to you) technique for system development.  You have to make a short report (max 5 pages and appendixes if any). The report need to:   * Explain how your product fulfill (or do not) the quality goals. * Describe your recommendations to others who considers to use the new technique you have tried. * Document the process so that you and your supervisors can see how you can improve your skills of managing projects. |
| Curriculum / literature |  |
| Equipment |  |
| Test form / assessment | Delivery and evaluationFynbus Each group will make a presentation of their results for Fynbus.  Michael Dydensborg will comment on the presentations. This will take place **Friday week 17 at 10:30 at Fynbus.** SDP Each group must make an oral presentation of their solution. This will take place on Tuesday 11. November. Bjarne will ask questions and give an oral feedback of the solution and the presentation.  A schedule for the group presentations will be uploaded to Fronter during week 16. SDM Delivery before **Monday week 18 at 8:30**.Each group will hand in the report with appendixes as a pdf in Fronter.  The reports will be graded and commented orally on class. |
| Other general information |  |

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| WEEK | TOPIC | CONTENTS. Describe the expected content of the week’s lessons in a few sentences | Literature | Teacher initials |
| 15 |  | Fynbus presents the company, the processes and the problems Thursday 9/4 12:30 in your classroom. |  |  |
| 16 | Project | The project runs primarily over week 16 and 17 in 2015. The work is done in groups of about 3 – 4 people. The students create the groups themselves.  During this period the teachers are available with guidance and consultancy. We will follow the normal time schedule – Bjarne will be available Monday and Tuesday, Sebastian on Wednesday, Tove on Thursday, and Steffen on Friday. If you need assistance on other days, you must make an appointment via e-mail. |  | BjLa, ToZL, StMo |
| 17 |  | Presentation for Fynbus Friday 24/4 10:30 at Fynbus. |  |  |