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| **Semester project 2017e – Epico** | | | | | | | | |
| **Education** | | | | | | Pb. Web - Backend development Pb. Web - Design and communication | | |
| **Semester** | | | | | | 1st | | |
| **Class** | | | | | | UKPBW17a1  UKPBW17b1 | | |
| **Teachers in charge** | | | | | | Bastiaan Degen ([bjde@iba.dk](mailto:BJDE@iba.dk))  Christian Bruhn ([chbr@iba.dk](mailto:chbr@iba.dk))  Niels ([nmla@iba.dk](mailto:nmla@iba.dk)) | | |
| **Time period** | | | | | | 20/11/2017 - 8/12/2017 | | |
| **Language** | | | | | | English (this counts for all groups, all reports and presentations) | | |
| **Available material** | | | | | | Resources from courses Project description Epico appendix | | |
| **Subjects involved in the project** | | | | | | Backend development/programming Databases  Development Environments (IDE) | | |
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| **Assessment and feedback** | | | | | | Oral feedback and a passed / not passed grade | | |
| **Attendance** | | | | | | **Attendance is mandatory** If attendance requirement isn’t met a not passed grade will be issued and the student will not be allowed to take the exams. | | |
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|  | | **Group project** | | | | | | |
|  | | Yes | | | **Groups are formed by the Teachers** | | | | |
| 3-4 students | | | **Students per group** | | | | |
| Group composition:   |  |  |  | | --- | --- | --- | | **Group 1 (Bastiaan):**  Emma  Michael S  Nanna  Jesper | **Group 2 (Christian):**  Patrick  Visti  Daniel  Kevin | **Group 3 (Bastiaan):**  Anne Christine  Miron  Remon  Precious | | **Group 4 (Christian):**  Marianne  Mike  Mathias  Peter S.  Kasper | **Group 5 (Niels):**  Emil  Lene  Katazyna  Kristaps | **Group 6 (Niels):**  Peter H  Steffen  Didde  Renars  Antonin | | **Group 7 (Niels):**  Michal K  Tiago  Christine  Andre |  |  | | | | | | | | | | |
| **Project program & important deadlines** | | | | | | | | | |
| Date | | | Time | | | | Activity | |
| Monday | | | 20/11/2017 09:00 | | | | Project kick-off | |
| Tuesday | | | 21/11/2017 12:00  at 14:00 | | | | Send your project plan to BJDE  Presentation of project plan  (time-schedule will follow on BB) | |
| Intermediate period | | | 22/11/2017 7/12/2017 | | | | See your assigned teachers document on BB | |
| Thursday | | | 7/12/2017 12:00 | | | | Project report hand-in | |
| Friday | | | 8/12/2017 09:00 | | | | Presentation Grading and Project end | |
| **Project description** | | | | | | | | | |
| **Project plan:**  Problem statement with 1 main research question, 3 sub questions (this should be 1 page A4, 2400 characters)  Time plan: Trello/Gannt chart  Project plan presentation whole group is present, duration 10 minutes per group.  **Product (EPICO Web Application):**  Assignment:  Develop a web app that addresses EPICO's Freelance consultants. This means an app that runs in a browser and has a responsive design.  Requirements:  - Must be simple and understandable in the design, and reflect the design that fits the EPICO website, follow the attached design manual.  - The first priority is that the user can access the vacancies listed on the website through a login (linked-in and login through app). Users must be able to see the job description and contact details of the EPICO-employee who has made the position. This can now be done via a portal already encoded on the website.  From here they should be able to contact the responsible EPICO-employee, either by phone number or mail, and preferably with a small message attached.  - There must be a notification function (like an alert) so that the user can receive notifications for new jobs.  - The user should have easy access to contact EPICO and the opportunity to update their unemployment status. If possible, this should be done so it is updated directly in our CRM system. If this cannot be done, send an email to buddy@miracleas.dk with the user's information and their new date of unemployment. (Here are some additional details that we can see if / when it becomes applicable).  - The second priority is that the news from the EPICO news site / blogsite should be accessible in a simple and easy way. Here, there must also be a possibility for the user to sign up so that he / she receives notifications when new posts / news are received.  Our website:  Website: www.epico.dk  **Project report:**  A report will be submitted with a maximum of 20 standard pages + 5 pages per. student excluding Front page, attendance list and attachments.   |  |  | | --- | --- | | Nr. of students | Max. page count | | 1 | 25 | | 2 | 30 | | 3 | 35 | | 4 | 40 | | 5 | 45 |   A standard page is defined as 2,400 estimates incl. spaces and footnotes. Front page, table of contents, literature list and appendices do not count in this. Attachment is out of review.  The product must be brought online and a digital copy is delivered to all teachers on the semester's subject.   * The report must clearly indicate the author in individual sections. * The institution's standardized front page is filled in and inserted as the first page. * All pages must contain a clear page name, name (s) of authors, and project name.   Report layout:   1. Front page/Title page 2. Preface/forword 3. [Resume/abstract] 4. Table of Content 5. Problem statement 6. [Resume of Literature] 7. Methodology 8. Research 9. Analysis 10. Construction/Implementation 11. Evaluation of method 12. Evaluation of result 13. [Future Spin Offs] Discussion 14. Conclusion 15. Appendices 16. Bibliography 17. [index]   Citation should be done according Harvard use for example www.citethisforme.com.  You can use Niels’ site for additional instructions http://www.x15.dk/prez/reporting/udd\_rapport\_en.php  **Presentation:**  In front of class present for Epico, teachers and fellow students.  30 minutes per group presentation time. All group members are required to be present (attendance registration will be conducted). | | | | | | | | | |
| **Learning objectives** | | | | | | | | | |
| UKPBW17A1: Backend - Development Environment (IDE)  UKPBW17B1: Communication & Design - Development and CMS  **Knowledge**  The student has knowledge about:   * Integrated Development Environments (IDEs) and their possibilities and limitations. * Common programming languages in a web context. * Quality assurance and version management of applications in a web context * Types of Content Management systems and frameworks and their applicability in a web context * Criteria for selecting Content Management Systems or Frameworks * Selection of relevant database technology for application development in a web context   **Skills**  The student can:   * Apply the Content Management system or framework for application development in a web context * Apply integrated development environment for application development in a web context   **Competencies**  The student can:   * Select the Content Management system or framework for application development in a given development task   ===============================================================================================  UKPBW17B1: Communication & Design - Backend Programming  UKPBW17A1: Backend - Backend Programming  **Knowledge**  The student has knowledge about:   * Design patterns * World Wide Web's fundamental protocols * The possibilities and limitations of client / server architecture   **Skills**  The student can:   * Create web-based programs * Apply basic programming principles * Use web API’s * Document the program structure   **Competencies**  The student can:   * Analyse a development wish for the construction of a web-based application * Select and apply appropriate programming technologies for developing web-based applications - with the main focus on the server side   ===============================================================================================  UKPBW17B1: Communication & Design - Database  UKPBW17A1: Backend - Database  **Knowledge**  The student has knowledge of:   * At least one widely-used modelling language for data modelling * Distributed databases and their prevalence and usage in a web context * Description of problems/issues with data exchange, and use of data formats in development within a web context   **Skills**  The student can:   * Utilize data models in connection with development and maintenance within a web context * Use complex enquiries on databases * Use transactions * Embed business logic in the database layer * Use data formats for data integration   **Competencies**  The student can:   * Analyse and select which task is best located on the database layer and which would better be placed on the application layer. * Analyse and select database technologies which can best solve a given development task within a web context | | | | | | | | | |
| **Form – hand in** | | | | | | | | | |
|  | | | | **Scope** | | | | **Weighing** |
|  | Written Written  Written Oral | | | Project plan  Finished product  Project report  Presentation for Epico, students and teachers | | | | N/A see below |
| **Assessment criteria** | | | | | | | | | |
| The project will be assessed as a holistic view on your individual effort during the project. You will be assessed on:   * Attendance to mandatory meetings, * Elements that are handed in * Overall effort during the project * Use of relevant methodology in solving the project and use of relevant theories * Build quality of the product * To which degree the product follows the design specification from Epico * Professionalism in the presentation   The assessment will result in a fail / pass grade. | | | | | | | | | |