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| **Project agreement for semester work IVIS** | | | **IVIS 2018** |
| Main topic | Programming, Education | | e.g. Sports, Food, Politics, … |
| Student 1 | patrick.burkhalter@students.fhnw.ch | | eMail-Address, Module name |
| Student 2 (opt.) | sandro.schwager@students.fhnw.ch | |
| Language | German | English |  |
| Title (preliminary) | Working title (may be changed later)  Global Programming Education Index | | |
| Dates | Preferred delivery and presentation date  Delivery: May 31 2018, Presentation: Jun 5, 2018  Delivery: Jun 7 2018, Presentation: Jun 12, 2018 | | |

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| Summary | Describe your concept in 500 characters  We will create a world map, in which you can set the data, that should be visualized, in a dropdown. The possible data will be the programming language, which will show the main programming language in this country and the education type (e.g. formal or self-tought). A second dropdown is available in which you can select a specific value (e.g. C#) which will show a heatmap of the distribution of this language. If you click on a country it will show additional information about the selected data. |
| Data sources | Provide URLs to at least 2 data sources  http://hdr.undp.org/en/data  https://insights.stackoverflow.com/survey |

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| **Schedule** | Est. time | Comment |
| (1) data analysis | 6.00 h |  |
| (2) story concept | 10.00 h |  |
| (3) data acquisition | 1.00 h | The data is available on the links under data sources so no data mining is needed. Both are csv format. |
| (4) data integration | 8.00 h | The data sets are way to big. We need to program a script to automatically extract the required information. |
| (5) chart sketching | 6.00 h |  |
| (6) implementation | 31.00 h |  |
| (7) design | 10.00 h |  |
| (8) documentation | 13.00 h |  |
| (9) presentation | 5.00 h |  |
| Total | 90 h | Make sure to plan at least 45 hours per student. |

Appendix

Additional material such as sketches, etc