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| VIA University College  ICT Engineering |
| Project Description |
| VIA Survival Guide |
| **Group 6** |
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| **SEPI2-S15, Group 6** |

**Background Description**

Education is an important part of one`s life, for it provides knowledge and means to fulfill certain goals. It is very important to note that in most of the cases a successful career can be achieved through a good and quality education. In this context, Western Europe became the perfect place for students from all over the world to study both efficiently and with pleasure.

VIA University College, one of the biggest universities in Denmark, has a quite large number of international students enrolled. At campus Horsens there are more than 2000 and the number could grow still. In this way, newcomers should have a hard time starting their life in a new country, which in fact usually happens. Applying for a CPR, getting the residence permit and knowing everything that is relevant can be tricky, sometimes even challenging, therefore, a easy-to-use source of information is needed.

Communication between students is an important part of education, therefore this process should be eased as much as possible by providing the students with some kind of possibility of communicating that could be interest-based. Furthermore, being acquainted with all the events that occur and also having a handful of information and places to see is certainly useful for students.

In present, a single and reliable source that could provide all the needed information in a clearly structured format for a student at VIA University College does not exist. Its existence, however, is most likely to be a new step towards a better education at VIA.

As far as it concerns the existing student`s tools, there has always been complaints regarding VIA`s time schedule system. Therefore solutions to this problem are more than welcomed amongst students.

Purpose

The purpose is to develop a system that provides useful information, a chat and a better working time schedule for the students at VIA University College.

Problem formulation

The biggest problem is evidently linked to the way the application should present and structure all its functionalities. All the data required by the application should be stored in a database situated either on the server or on another host. The application for the server should be able to work in the context of high traffic.

Questions to be answered are the following:

* How will the system update with the information regarding new events?
* How will the data be structured in the database?
* How will the chat be organized?
* How to implement the timetable?

# Delimitation

* Implementing the system with only the most important and relevant events.
* The time table will be implemented only for the ICT students.
* The chat will be group-based.

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| **What**  Partial problem | **Why**  Why study this problem? | | **Which**  Which models/theories are expected to be used to solve the problem? | |
| How will the system update with the information regarding new events? | Main functionality of the system | | Analyzing end-user`s opinions.  Use Case Modeling | |
| How will the data be structured in the database? | Fast and reliable data withdrawal | | Inspect :  Course Material  Lecture Notes | |
| How will the chat be organized? | Comfortable usage | | Analyzing end-user`s opinions.  Design Patterns | |
| How to implement the timetable? | Main functionality of the system | Design Patterns  Creating a model and comparing it to the existent timetable | |

# Time schedule

# References and expected sources

* **Stackoverflow**
* **Lecture Notes**
* **Session Material from all the courses**
* **Gaddis 1st sem / 2nd sem**
* **Database book**
* **Netwoking book**
* **UML 2.0 book**
* **The other books…**
* [**http://docs.oracle.com/javase/tutorial/networking/sockets/**](http://docs.oracle.com/javase/tutorial/networking/sockets/)
* [**http://db.cs.berkeley.edu/papers/fntdb07-architecture.pdf**](http://db.cs.berkeley.edu/papers/fntdb07-architecture.pdf) **(book)**
* [**https://docs.oracle.com/javase/tutorial/jdbc/overview/**](https://docs.oracle.com/javase/tutorial/jdbc/overview/)

# Encyclopedia of Portal Technologies and Applications

* [K. L. JAMES](https://www.google.md/search?sa=X&biw=1366&bih=631&tbm=bks&tbm=bks&q=inauthor:%22K.+L.+JAMES%22&ei=iIsiVbnbIYG2sgGfuoTADA&ved=0CCUQ9AgwAQ) Software Engineering – 2008
* Design Patterns in Java - [Steven John Metsker](https://www.google.md/search?biw=1366&bih=631&tbm=bks&tbm=bks&q=inauthor:%22Steven+John+Metsker%22&sa=X&ei=KIwiVZKzJYG2sAGDxIPQBw&sqi=2&ved=0CC0Q9AgwAg), ‎[William C. Wake](https://www.google.md/search?biw=1366&bih=631&tbm=bks&tbm=bks&q=inauthor:%22William+C.+Wake%22&sa=X&ei=KIwiVZKzJYG2sAGDxIPQBw&sqi=2&ved=0CC4Q9AgwAg) – 2006

### [Gang of Four Java Design Patterns Mock Exams](https://books.google.md/books?id=VurWlzXivG0C&pg=PA31&dq=java+design+patterns+gang+of+four&hl=ru&sa=X&ei=c4wiVZnaOoyrsQHKoYGYBA&ved=0CBoQ6AEwAA) - N., Y. Ibrahim

### [The Art of Agile Development](https://books.google.md/books?id=g_ji7cRb--UC&printsec=frontcover&dq=agile+programming&hl=ru&sa=X&ei=0owiVbf4OYausAH1hYP4AQ&ved=0CBoQ6AEwAA) - [James Shore](https://www.google.md/search?biw=1366&bih=631&tbm=bks&tbm=bks&q=inauthor:%22James+Shore%22&sa=X&ei=0owiVbf4OYausAH1hYP4AQ&ved=0CB4Q9AgwAA), ‎[Chromatic](https://www.google.md/search?biw=1366&bih=631&tbm=bks&tbm=bks&q=inauthor:%22Chromatic%22&sa=X&ei=0owiVbf4OYausAH1hYP4AQ&ved=0CB8Q9AgwAA) - 2007