

# NOTICE!

- These materials are prepared only for the students enrolled in the course Distributed Software Development (DSD) at the Department of Computer Science and Engineering, University of Mälardalen, Västerås, Sweden and at the Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia (year 2012/2013).
- For all other purposes, authors' written permission is needed!
- The purpose of these materials is to help students in better understanding of lectures in DSD and not their replacement!

# Distributed Software Development



2013-01-20



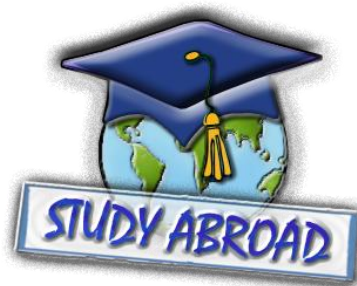
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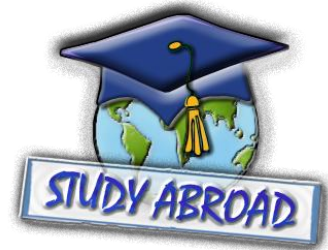
MÄLARDALENS HÖGSKOLA

Javier Hualpa, Branimir Lochert

# StudyAbroad Project Vision



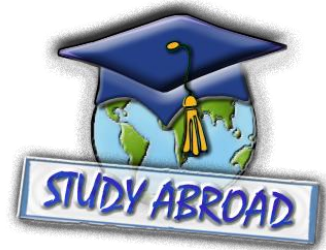
# The team



- Italy - PoliMi
  - Alessandro Sisto (Team Leader)
  - Javier Hualpa
  - Daniele Rogora
- Croatia - FER
  - Branimir Lochert (Project Leader)
  - Katarina Sekula
  - Milan Čop

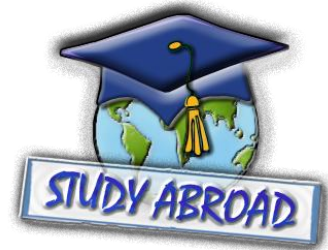


# The project



- Where to go to study abroad? ✓
- How to apply and get there? ✗
- Project supervisor: Ivana Bosnić

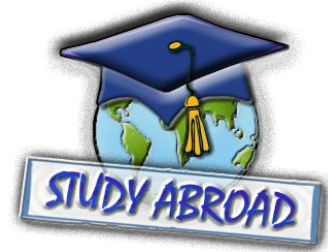
# Incentives



- Where to go is an important decision
- Need to consider a lot of information
- What if it was all in one place?
- What if you could narrow it down?



# Goals



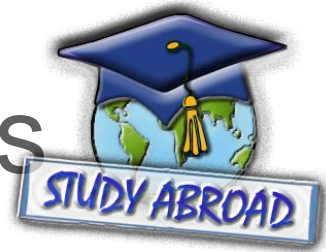
- Build an application which
  - Gathers information from data sources
  - Presents to the user (in a nice format)
  - Narrows it down!
  - Guides the user towards a decision

- Learn DSD





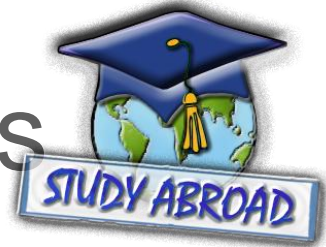
# Requirements and features



- Gather data from various open data sources
- Present the data to the user
  - Text
  - Photos
  - Maps
  - Gadgets
  - Graphs



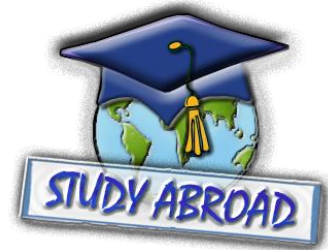
# Requirements and features



- Filter data
  - Language, country, university, city, climate, social life, finances, culture, people of interest
- Feedback
  - Suggestions, hints, user content

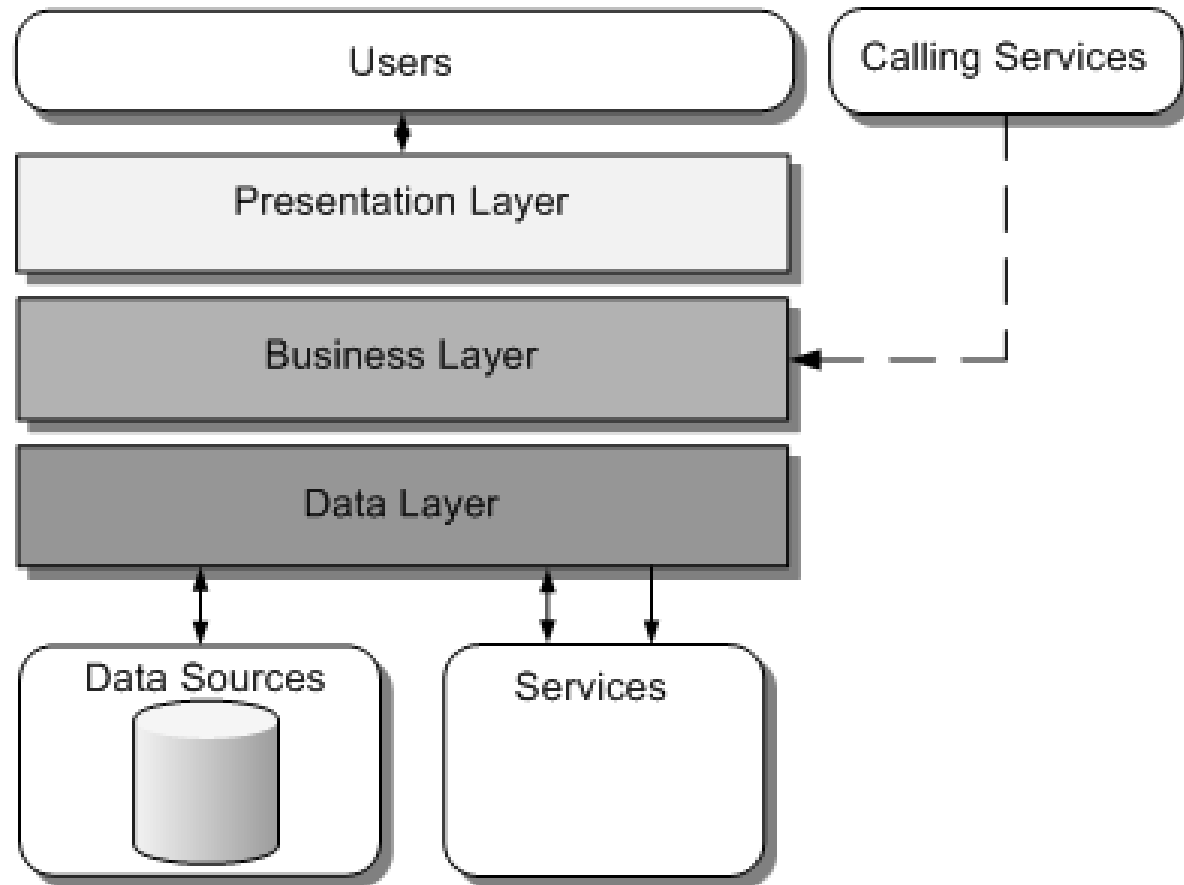
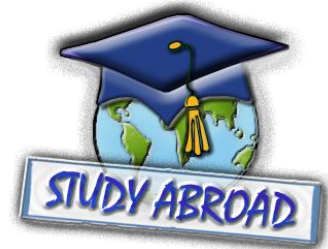
Guiding the user towards a decision

# Technologies

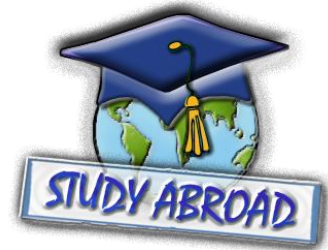


- Server
  - .NET / C#
  - dotNetRDF, LINQtoRDF
- Client
  - HTML / CSS
  - JavaScript (jQuery)
  - Ajax

# High level architecture

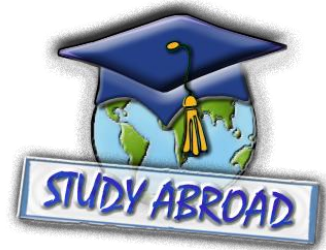


# Data Sources



- **Public data sources (APIs)**
  - Financial: Eurostat
  - General: dbPedia, Freebase
  - Publications: Mendeley
  - Maps and Landmarks: Google Places
  - Education: LinkedEducation, TheDataHub
- **Other**
  - HTML parsing, crawlers

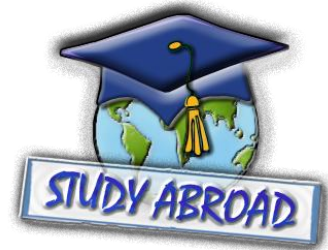
# Risks



- Quality and availability of data sources
- Team communication
- Deadlines
- Modularisation and integration

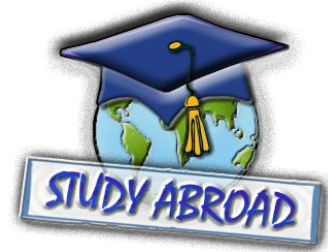


# Future Features



- Extensibility!
- Future data sources should integrate seamlessly

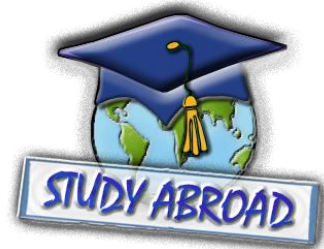
# Team Communication & Collaboration

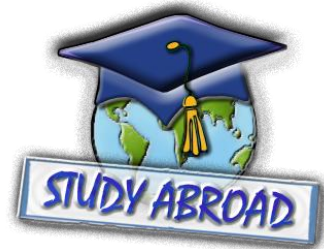


- Communication
  - Skype
  - Face to face
- Collaboration
  - Google group
  - SVN









**Thank you!**