

Social Connections

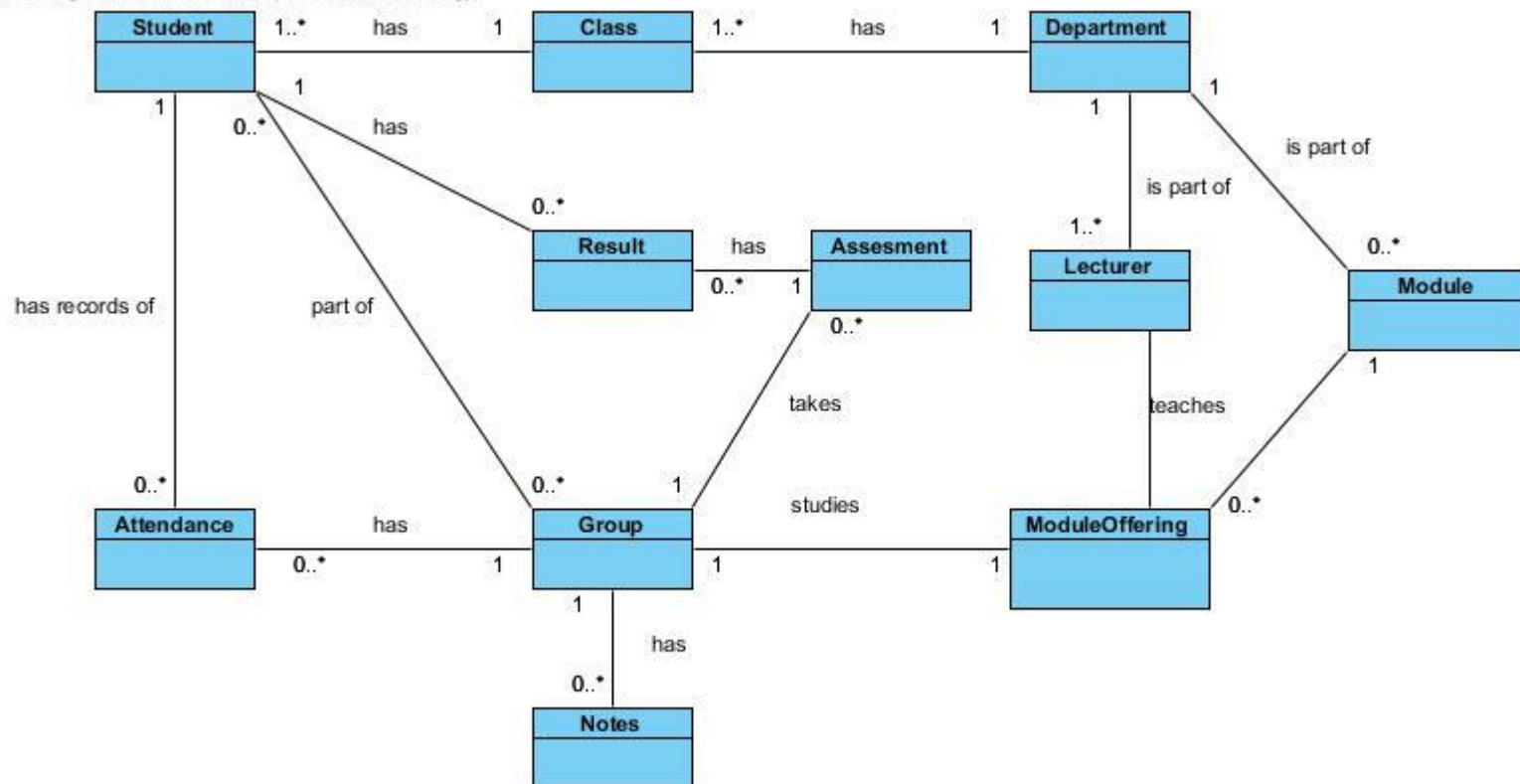
Rouslan Placella

Preslav Petkov

Gary Brady

Domain Model

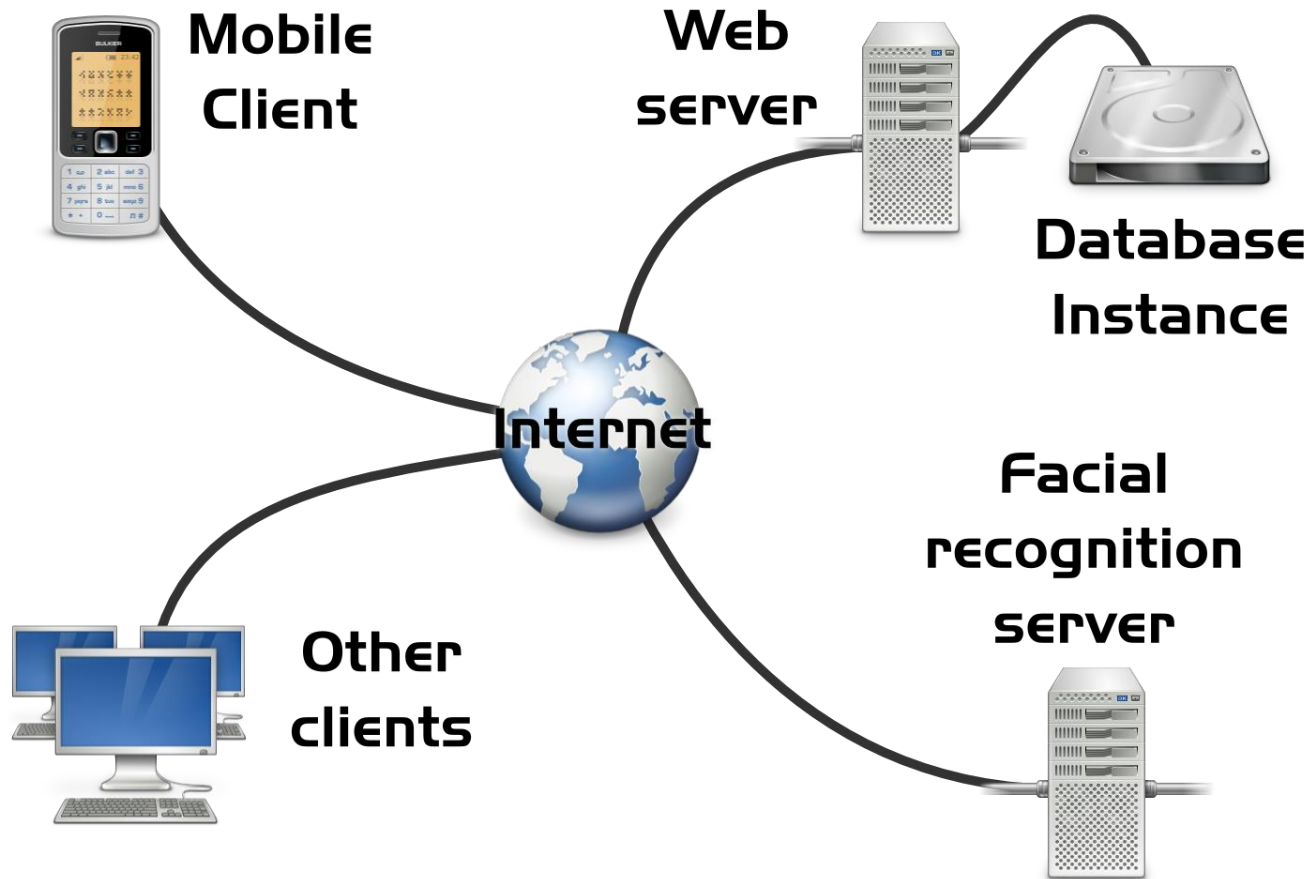
Visual Paradigm for UML Standard Edition (Cork Institute of Technology)



What it does











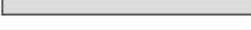
- Takes attendance using face recognition
- Manage Assessments
- Manage Students
- Manage Departments
- Manage Groups
- Manage Modules
- Manage Notes
- Communication
- Manage Lecturers
- Manage Classes
- Set Threshold
- Notifications/Email
- Attendance Excuses
- View Attendance
- View Grant students

Architecture



Programming Languages

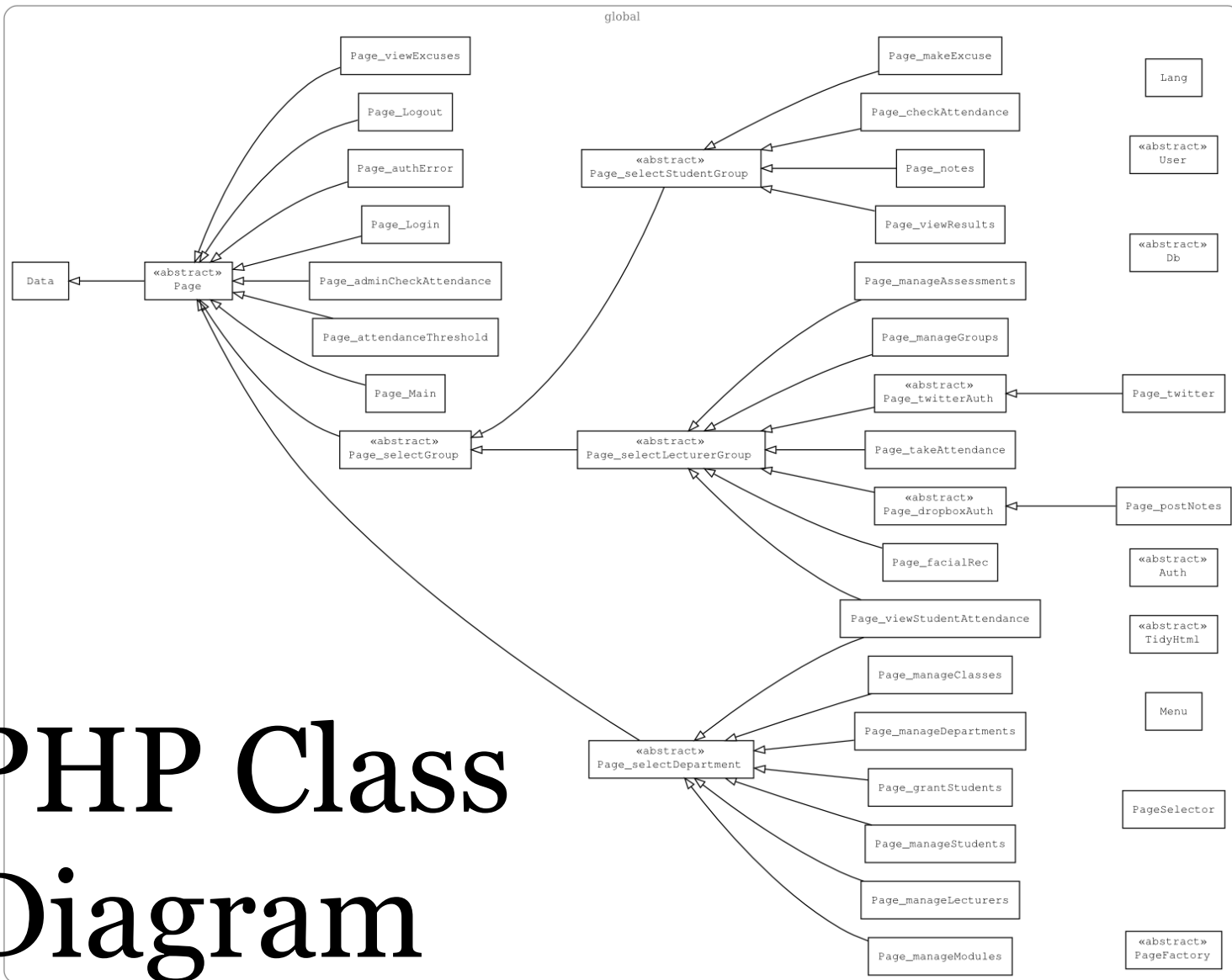
- Total lines of code: 15 000
- Percentage of comments: 17%

Language	Code Lines	Comment Lines	Comment Ratio	Blank Lines	Total Lines	Total Percentage
PHP	8,872	1,903	17.7%	537	11,312	 76.3%
Java	872	247	22.1%	88	1,207	 8.1%
SQL	449	197	30.5%	119	765	 5.2%
CSS	373	21	5.3%	34	428	 2.9%
XML	328	25	7.1%	48	401	 2.7%
JavaScript	243	31	11.3%	12	286	 1.9%
C++	127	42	24.9%	20	189	 1.3%
HTML	126	0	0.0%	3	129	 0.9%
shell script	47	6	11.3%	6	59	 0.4%
C	43	9	17.3%	4	56	 0.4%
Make	3	0	0.0%	0	3	 0.0%
Totals	11,483	2,481		871	14,835	

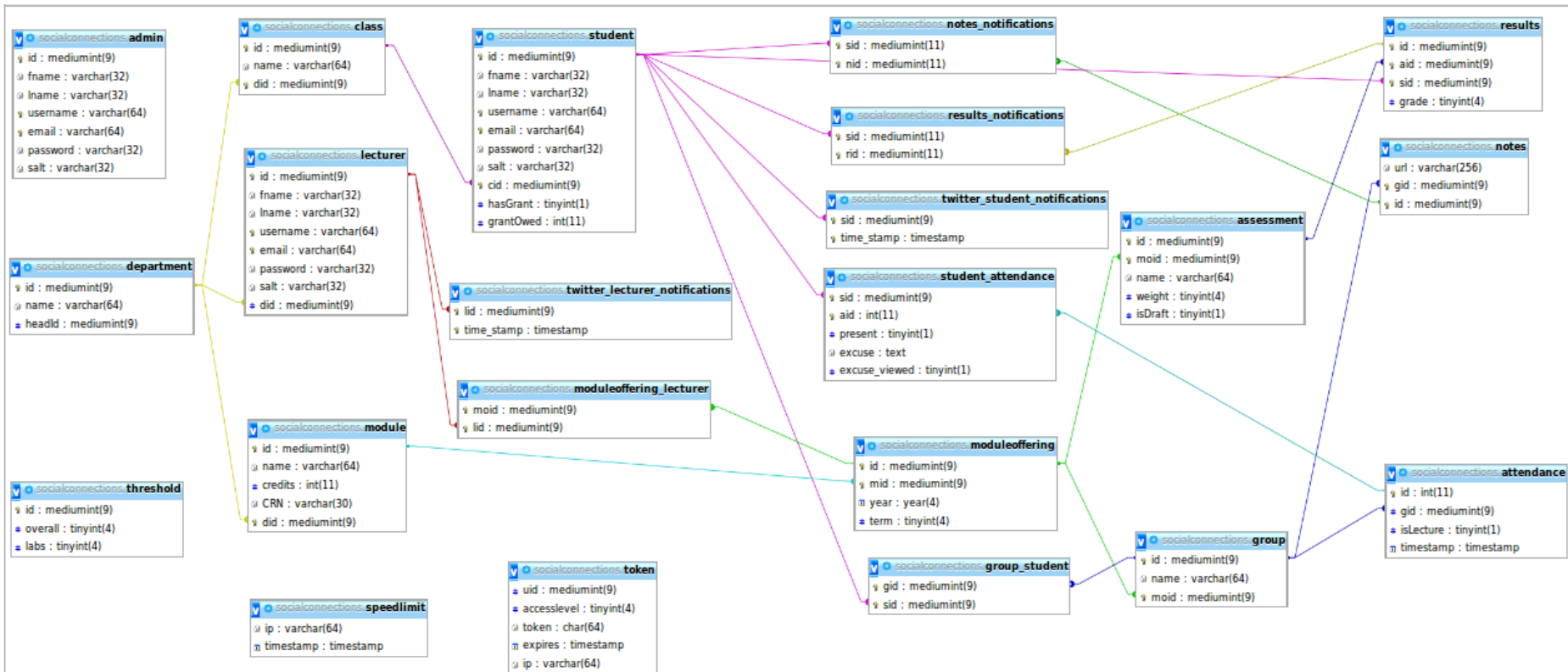
PHP Framework

- Internationalisation through gettext
- TidyHTML
- User management
- Authentication
- Mobile support
- Security (SQL prepared statement, Rate limited login, Hashed and Salted, XSS protection)

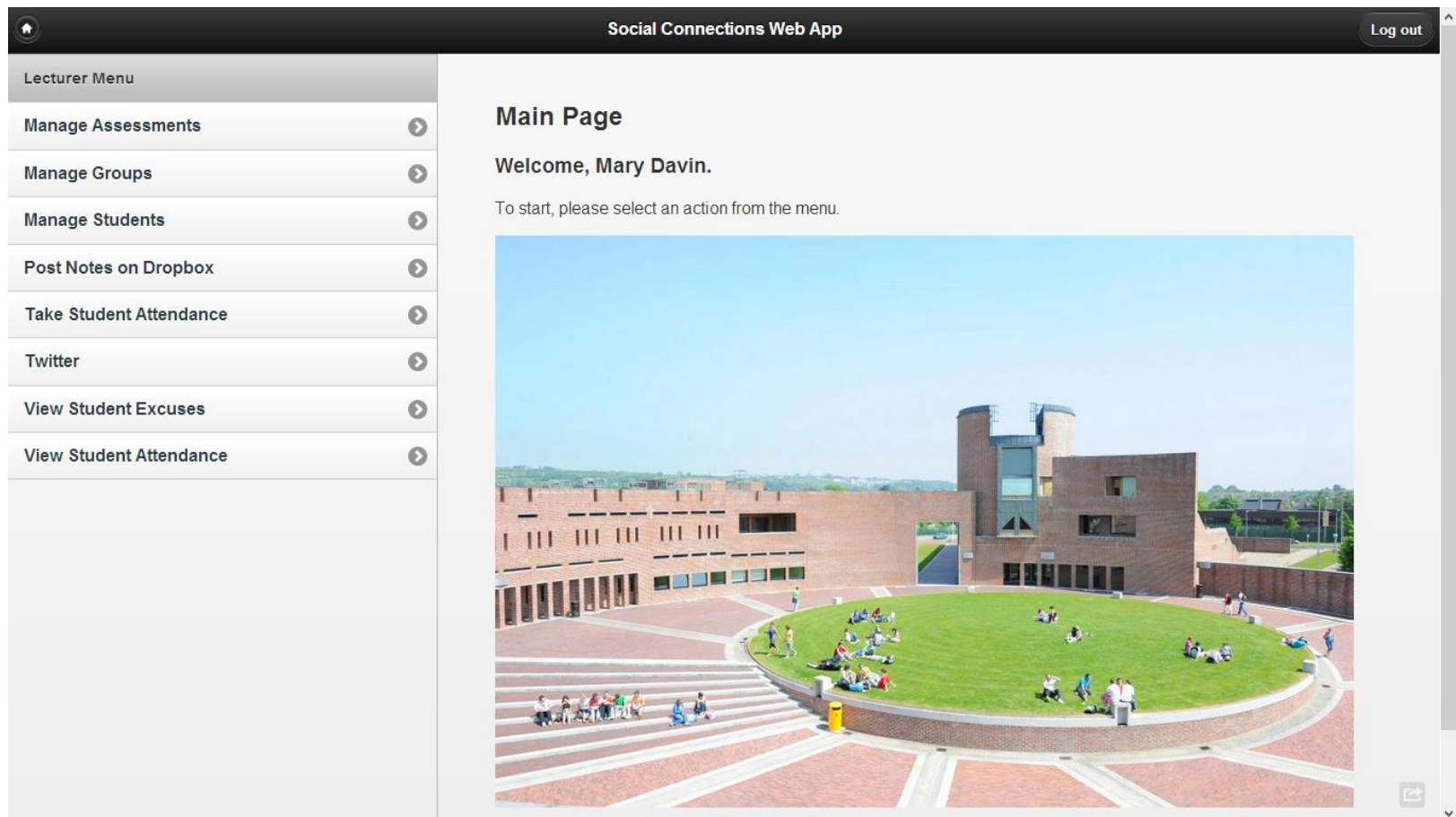
PHP Class Diagram



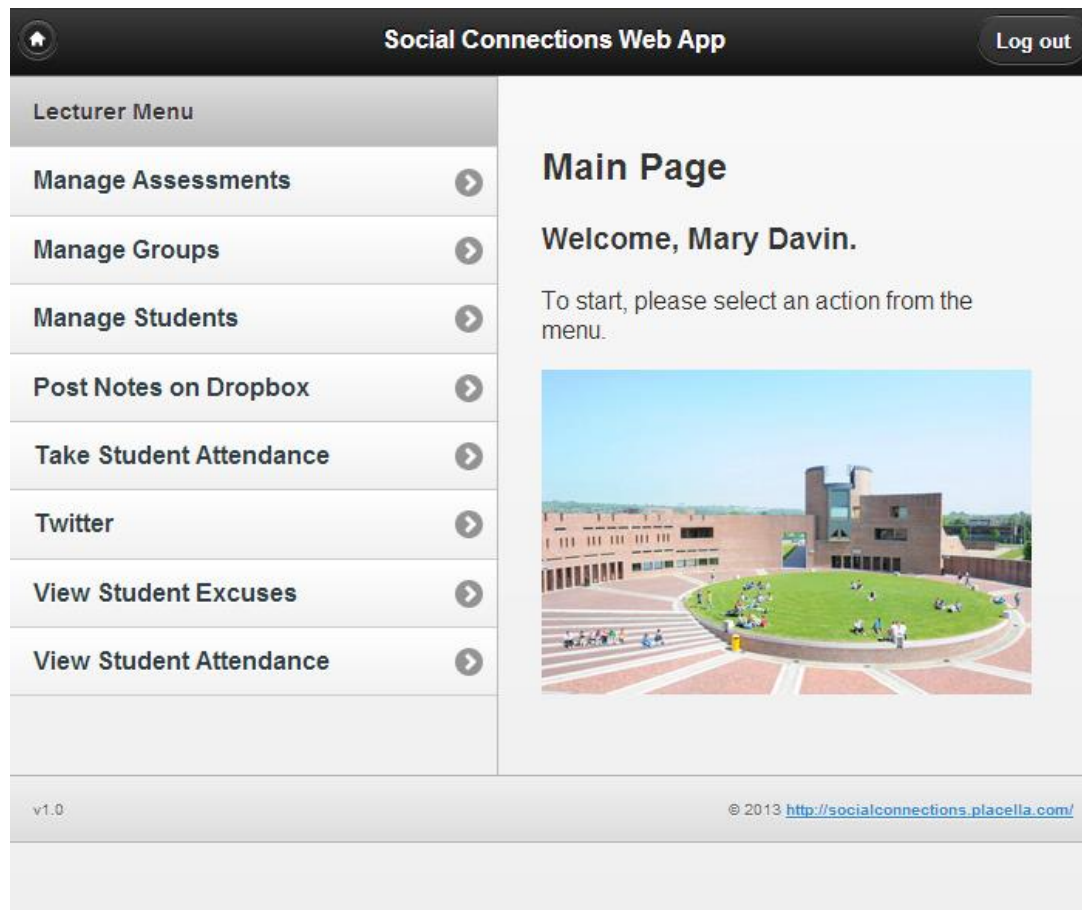
Database Model



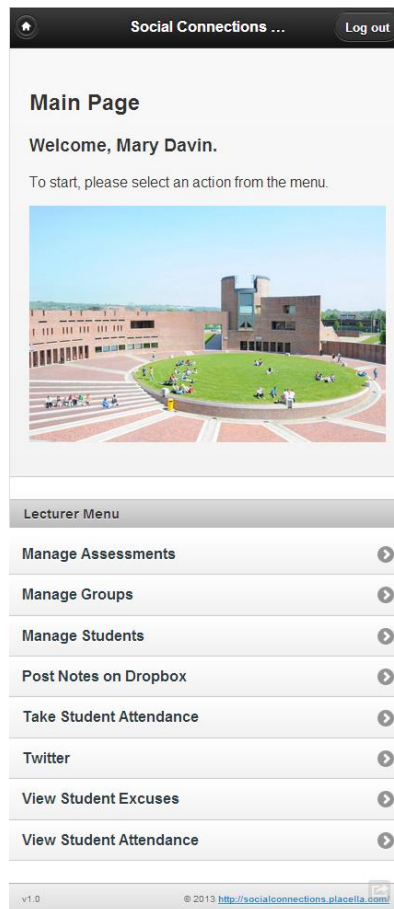
Responsive Web Design



Responsive Web Design



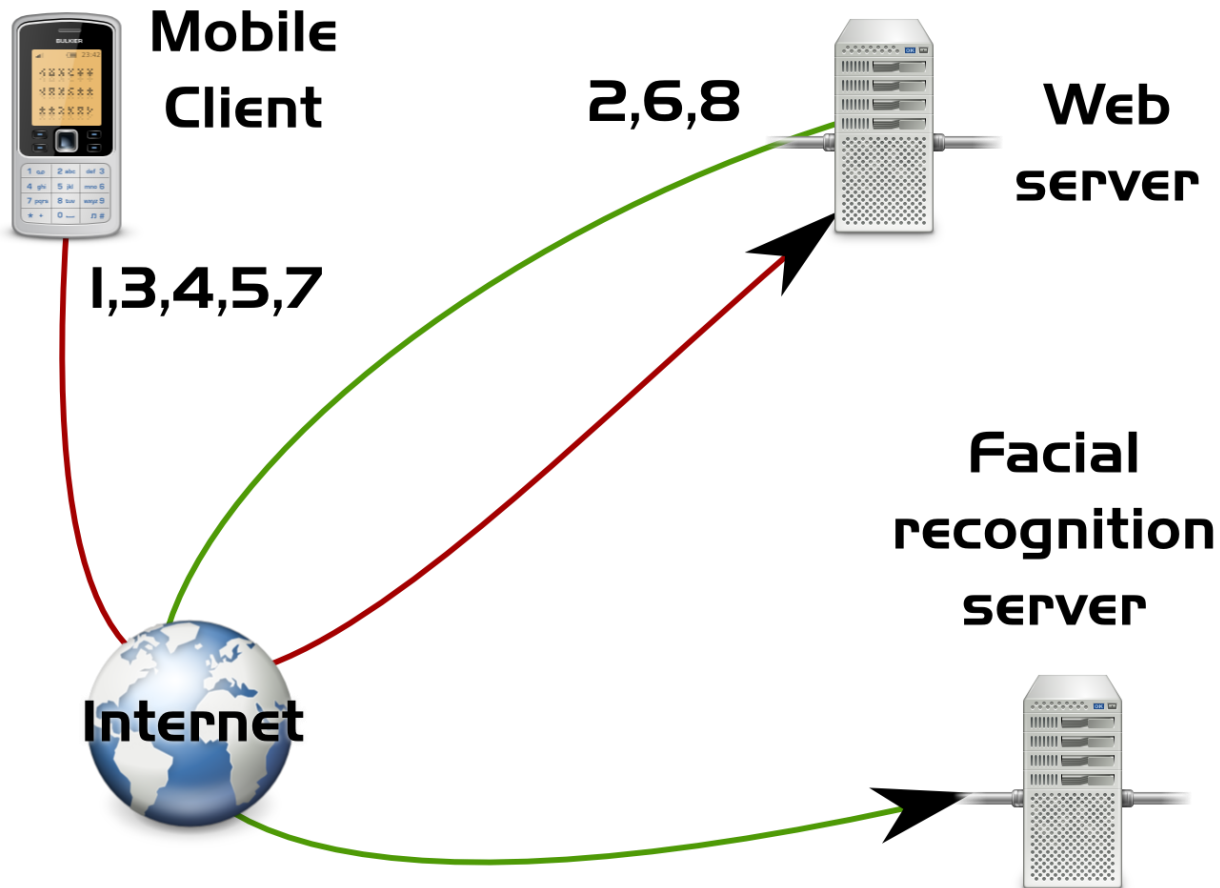
Responsive Web Design



Supported Platforms



Facial Recognition



Dropbox/Twitter

- Oauth (libraries)
- Applications

Performance

- Speed
- Stress test
- Handles 20 concurrent connections

Expandability

- Configurable
- Easily translatable
- Easily deployed
- Highly extendible

Communication

- Meetings
- Phone
- Facebook
- E-mail
- IRC
- Skype
- Blog

Retrospective

- XSRF tokens
- fastCGI
- Templates
- Avatars
- Improved Server Setup

Future prospects

Using the knowledge gained during the development of this project, we will set up a highly scalable, cloud based, pay as you go facial recognition system for the public.

Cost Analysis

- Estimated value of project using the Basic COCOMO Model : €110,000 total
- Estimated value of project, assuming minimum wage : €1,557 total