

1 Technologies

For each of the following sections, all technologies we considered are listed. At the end of each section the final choices will be stated and explained why each technology was chosen instead of other options.

1.1 Programming Languages

- Java
- JavaScript including JSON
- Python
- PHP
- C++
- C
- HTML5

1.2 Frameworks

- Ajax
- AngularJS
- Bootstrap
- Django

1.3 Libraries

- jQuery

1.4 Protocols

- LDAP (Lightweight Directory Access Protocol)
- HTTPS
- HTTP
- SMTP
- REST (Representational State Transfer)

1.5 Database Systems

The System will utilize a relational database and will use PostgreSQL to handle queries.

1.6 Operating Systems

The System will be created to primarily work on Linux as the entire Computer Department is running on Linux. The System will however be compatible with other operating systems such as Windows, Apple OS.