# Architecture constraints

Below are system constraints that have a significant bearing on Buzz system architecture.

These constraints are divided into two categories.

### Technical constraints

These are fixed technical design decisions that absolutely cannot be changed.

### Business constraints

These are unchangeable business decisions that in some way restrict the software architecture.

# Technical Constraints

#### Programming language

Buzz system will primarily be implemented using various Java view technologies and frameworks. These technologies offer important functionality for distributed web applications and should provide strong foundation for Buzz.

Java technologies to be used include:

1. Java EE
2. JPA(Java Persistence API)
3. JPQL(Java Persistence Query Language)
4. JSF(Java Server Faces)

Other technologies include: HTML, AJAX & CSS

#### Platforms supported and operating system

The CS (Computer science) systems operate mainly on Linux. Buzz should also support Linux as it will need to be integrated with other existing systems such as:

1. Computer Science LDAP repository
2. Computer Science Portal
3. World Wide Web

Buzz should support major browser clients that include:

1. Mozilla Firefox
2. Google Chrome
3. Safari
4. Internet Explorer

Buzz will not support the Android platform because of the limited time allocated for the development.

#### Hardware

Buzz will be hosted by the computer science server and therefore should support the server’s hardware capabilities while providing the recommended functionality to the users.

#### Use of a specific library or framework

Any specific framework or library can be used/should be used for Buzz provided that it’s open source.

# Business Constraints

#### Schedule

Buzz System must be implemented within the stipulated time period and should be functional at the end of the deadline.

#### Budget

A budget has not been allocated for buzz system and therefore its recommended that any technology or product that requires capital should not be used.

#### Software licensing restrictions

Buzz should adhere to all software licensing restrictions that are stipulated by the software owners.