



Introduction and Goals

Software Architecture

Requirements Overview

What is AcademiX?

The main purpose of the university management application will be a web-based platform that will allow students, faculty, and staff to manage their academic, administrative, and financial activities.

Main features

- User authentication and authorization
- Dashboard with relevant information and alerts
- Course and curriculum management
- Enrollment management
- Attendance tracking and reporting
- Grading and transcript management
- Billing and payment management
- Reporting and analytics

From the point of view of the end users a system is created or modified to improve support of a business activity and/or improve the quality. Keep these excerpts as short as possible.

Define the main purpose of your software and list the main features.

Help: <https://docs.arc42.org/section-1/> & <https://biking.michael-simons.eu/docs/index.html#section-introduction-and-goals>

Stakeholder

Role/Name	Expectations
University Administrator / John Smith	Provide an efficient and user-friendly platform for managing academic and administrative activities
Senior Lecturer / Jane Doe	Efficient management (schedules, notifications, etc.), one application instead of multiple systems
Chief Information Officer / Michael Lee	Enable data-driven decision making through reporting and analytics
Student Representative / Emily Chen	Enhance communication and collaboration among students
Financial Officer / Sarah Johnson	Streamline billing and payment processes and guarantee security

You should know all parties involved in development of the system or affected by the system. Otherwise, you may get nasty surprises later in the development process. These stakeholders determine the extent and the level of detail of your work and its results.

Define five important stakeholders.

Quality Goals

Priority	Quality	Motivation
1	Reliability	The current system is prone to human errors, and this should be improved.
2	Usability	The application should make processes more efficient and save time.
3	Maintainability	Specific requirements are expected to change during the lifetime of the app.

You should know the quality goals of your most important stakeholders, since they will influence fundamental architectural decisions. Make sure to be very concrete about these qualities, avoid buzzwords. If you as an architect do not know how the quality of your work will be judged, it becomes challenging to meet the expectations.

Define three quality goals ordered by priority.

Help: <https://iso25000.com/index.php/en/iso-25000-standards/iso-25010>