# 

KEA\_STUD CHAT MESSENGER

Solution description and baseline cost

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# Document information

## Document version

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| --- | --- | --- |
| Version | Author e-mail | Description |
| 1.0 | Nikolaj B. Hemmeshøj, [nibh@kea.dk](mailto:nibh@kea.dk)  Head of Enterprise Architecture | Initial draft |
|  |  |  |

## Approval List

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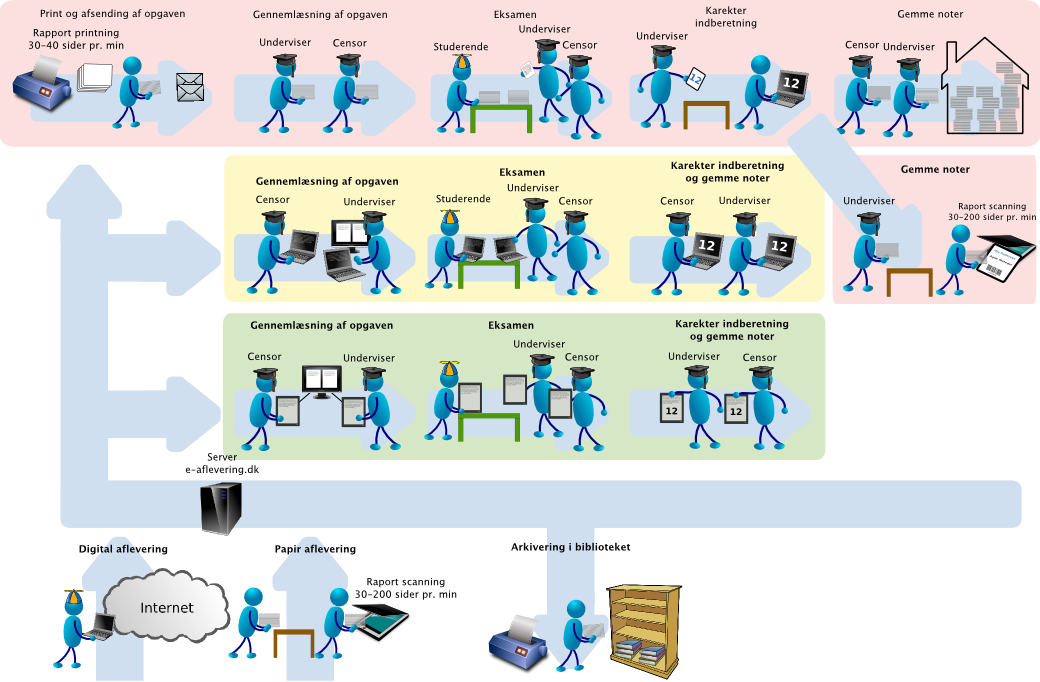
## Confidentiality Rating

|  |  |
| --- | --- |
| Rating |  |
| Company Confidential | X |
| Non Confidential |  |

# General

KEA\_STUD Chat messenger will provide with the possibility of chat within an institute. It will provide the user with the facility to communicate in-group or private, to exchange small/medium files during conversation, save the chat history.

eg. Flow of the process you want to build a solution for, the sample below is for digital assignment hand-in at CBS.



## Solution summary

In short this project will …. improve/make it cheaper/give new options for …

## Deliverables summary

What this project will deliver that can be measured afterwards:

* Better...
* Improved...
* Cheaper...

## Cost summary

High level cost elements that the project will carry:

* Hosting
* Software licenses
* Operations costs
* Software development hours
* ...

High level cost elements that the project will not carry as it can use existing architecture...

* Share hosting with other projects
* …

# Recommendation and next steps

Why should we do this project and when should it start. What needs to happen to do this project and what steps does the project involve.

# Detailed solution description

Detailed description of the in the following sub sections

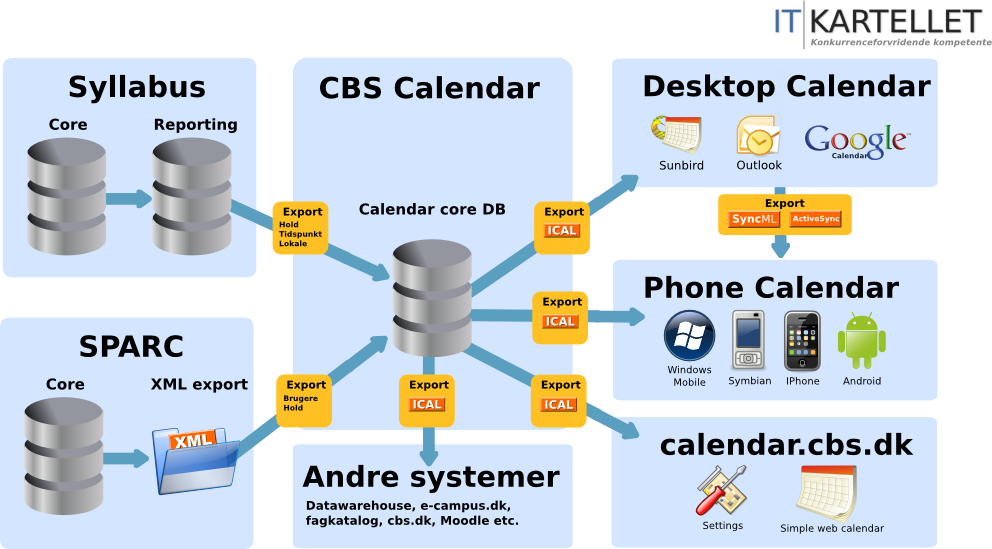
## Technical dictionary

Explain technical terms used so that the business can understand it.

## Architecture overview

Description of components involved and drawing of architecture

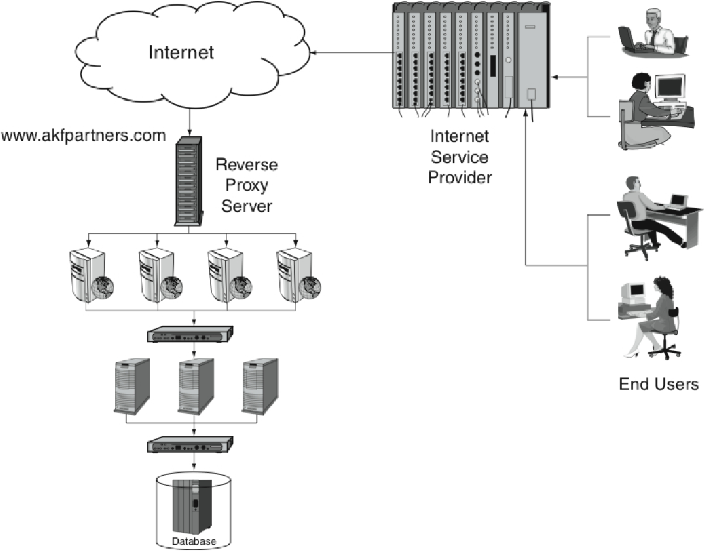
fx. for CBS Calendar



## Server setup

Description of servers setup and sizing, include a drawing of setup

eg.



## Functional requirements

What should the system be able to do. Behavior or functions of the system

## Non-functional requirements

How do we measure that the system works as it should.Specifies criteria that can be used to judge the operation of a system.

fx.

* How many requests/second a system can handle
* Number of users per hour
* Response time for 90% of the requests
* Startup time
* Request size and round trips
* Recovery time from backup

## Capacity recommendations

How does the system scale and how do we measure it under SPT.

# Impact on other system

How does the new system impact other system or infrastructure as the company.

# Failover and scalability

How does the system scale and how does it handle failover.

# Technical implementation plan

How should the system be implemented with timeline.

## Solution implementation components (work breakdown structure)

What steps do you need to do to implement the product or project

eg.

### Preparation

1. Analysis of requirements
2. ...
3. Create installation manuals
4. Performance testing

### Development of software

1. Web service development
2. ...
3. Frontend development

### Hardware setup

1. Install Hypervisor
2. Create VM’s for project
3. Install webservers and databases
4. SPT test of basic setup
5. ...

# Cost

What does the system cost to implement.

## Platform cost

## License and support

## Operational Cost

# Risks

What risks are there in the project.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Item # | Area | Description | Rank (RF=i\*p) | Mitigation | Solution |
| #1 | HW | Low capacity | 15=3\*1 | evaluate upgrade options | port application to other host |
|  |  |  |  |  |  |