# 

KEA\_STUD CHAT MESSENGER

Solution description and baseline cost

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# Document information

## Document version

|  |  |  |
| --- | --- | --- |
| 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

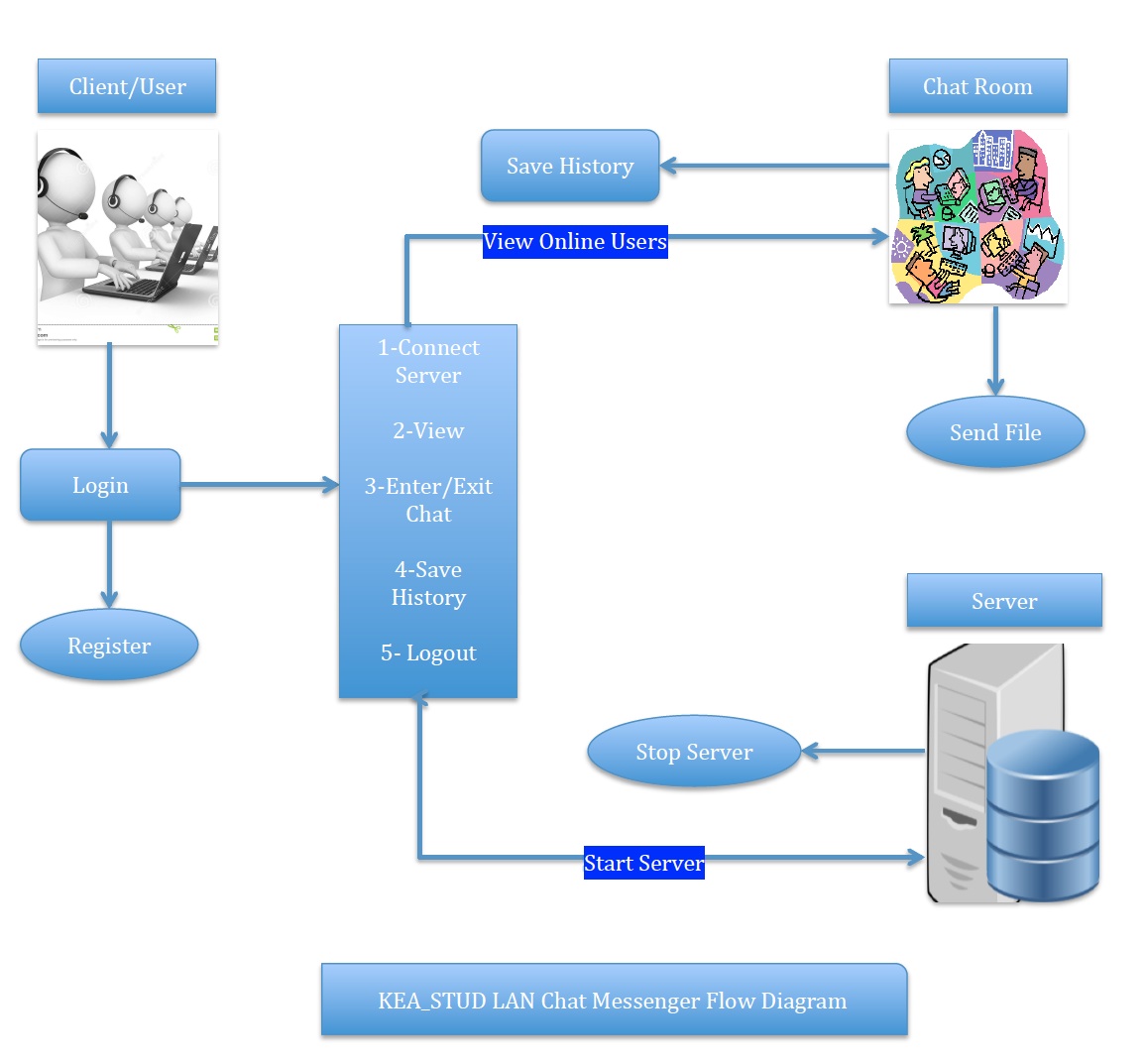
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| --- | --- | --- |
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## Confidentiality Rating

|  |  |
| --- | --- |
| 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. The chat system will work using Local Area Network (LAN).



## Solution summary

KEA\_STUD LAN chat messenger will provide ease to users in terms of connection, as it will enable users inside the organisations firewall to connect and communicate to each other using existing resources without being connected to Internet. The communication will be platform independent. Moreover it will reduce the cost of communication (by minimising mobile/text usage) and also the maintenance costs. No centralised server or active internet connection is required for communication.

## Deliverables summary

KEA\_CHAT LAN messenger will deliver following results that can be measured afterwards:

* Ease of communication between KEA students and staff.
* User Login & Signup options.
* Internet less connection between users.
* Facility to send group and private messages.
* Ability to exchange files during conversation.
* Option to save message history for future referral.
* Setup manual

1. How to install server
2. How to setup Database
3. How to get the system going and maintaining

## 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

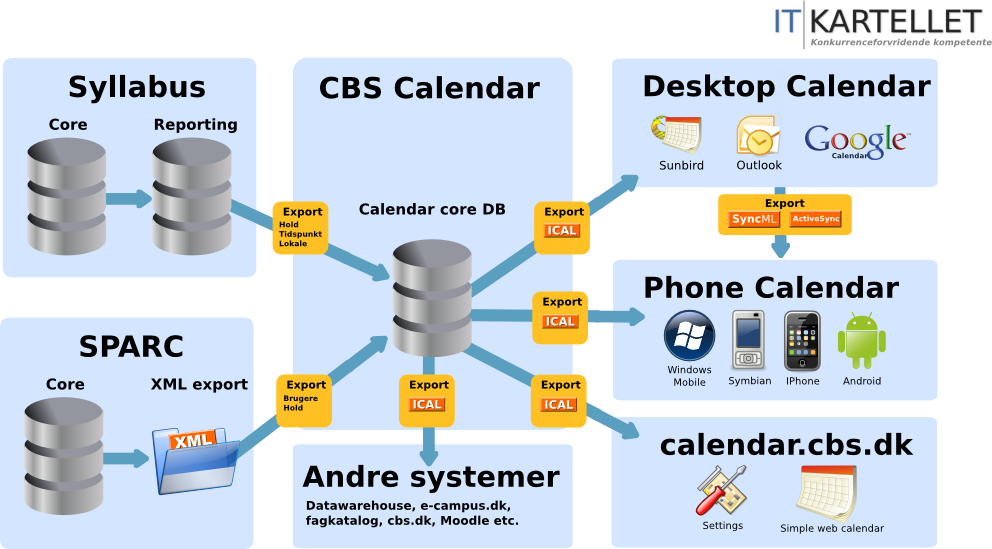
## Technical dictionary

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

## Architecture overview

Description of components involved and drawing of architecture

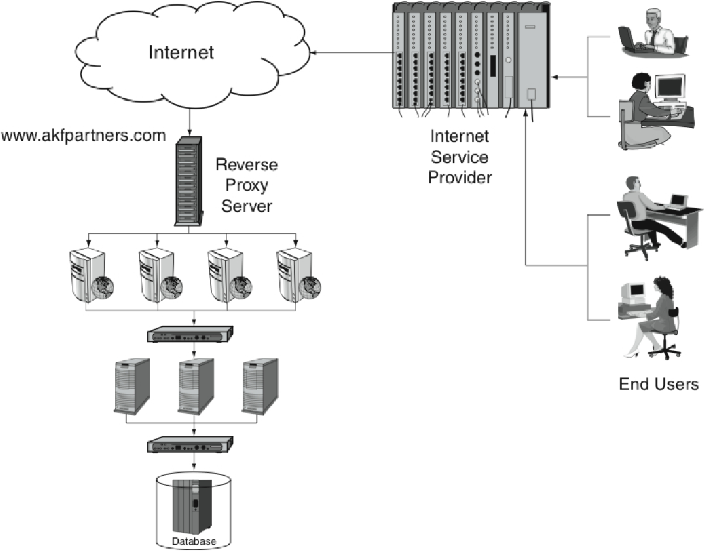
fx. for CBS Calendar



## 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 |
|  |  |  |  |  |  |