
SRS Document

4CKnowledge

L.Sathyajit - IT16139404

S.I.Krusanth - IT16122338

A.Arraamuthan - IT16086326

L.N Kodithuwakku – IT16038660

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1. Introduction

1.1 Purpose

This document was made to explain in detail the requirements analyzed to do the project and the implementation plan of the online book publication 4CKnowledge. It will illustrate the purpose and complete declaration for the of system including the features and functionalities. It will also explain system constraints, interface and interactions with other external applications.

1.2 Product Scope

This online website was created to enable users to register on the website and fill in their interests of publications. The admin will have viewing capabilities of all he users currently in the system. The necessary information is stored in a database.

1.3 Glossary

Term	Definition
User	<i>Customer who requires services from the website.</i>
Owner	<i>The sole proprietor of the system who is provided permission for viewing managing the system</i>
Admin	<i>The person who is given specific permission for viewing managing the system, but less permission than the owner.</i>

1.4 References

<https://www.youtube.com/watch?v=WXmTxgDg52o> [Accessed 2018 Mar]

<https://stackoverflow.com/questions> [Accessed 2018 Mar]

<https://www.w3schools.com/> [Accessed 2018 Mar]

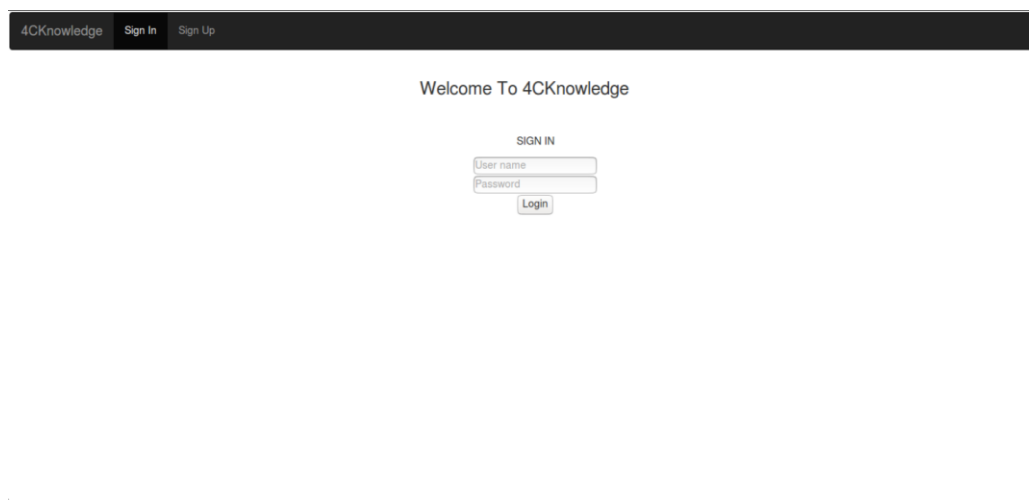
2. External Interface Requirements

2.1 User Interfaces

Front end software: HTML, CSS, Bootstrap, Java, JavaScript, JSP

Database: MySQL (LAMPP)

- Login UI



The screenshot shows a web application interface for 4CKnowledge. At the top, there is a dark navigation bar containing the site name '4CKnowledge' and two links: 'Sign In' and 'Sign Up'. Below the navigation bar, the main content area has a heading 'Welcome To 4CKnowledge'. Centered on the page is a 'SIGN IN' section. This section includes two input fields: 'User name' and 'Password', followed by a 'Login' button.

Figure 2.1.1

Buttons and functions

Login will sign in the user/admin/owner.

Note:

All users have the same login. The respective person should login with their passwords and usernames.

- Respective view pages for specific people

If the owner logs into the system they will be provided this view

4CKnowledge

Sign In

Sign Up

Welcome OWNER

Logout

Name	User Name	Address	DOB	Email	Phone Number	Interests
logan	log	521/1, trello, Colombo - 06	12332323	tranquility@gmail.com	9879879879	ai image-processing sci-fi politics religious art
rr	rr	34, Wall Street, Amsterdam	2009-06-11	peterpen@gmail.com	6656656656	ai
tran	tran	23, gffg, asdas	23423412	qwe123@gmail.com	1232123211	ai politics

Figure 2.1.3 ownerView.jsp

If a user logs into the system he will be displayed the page shown below

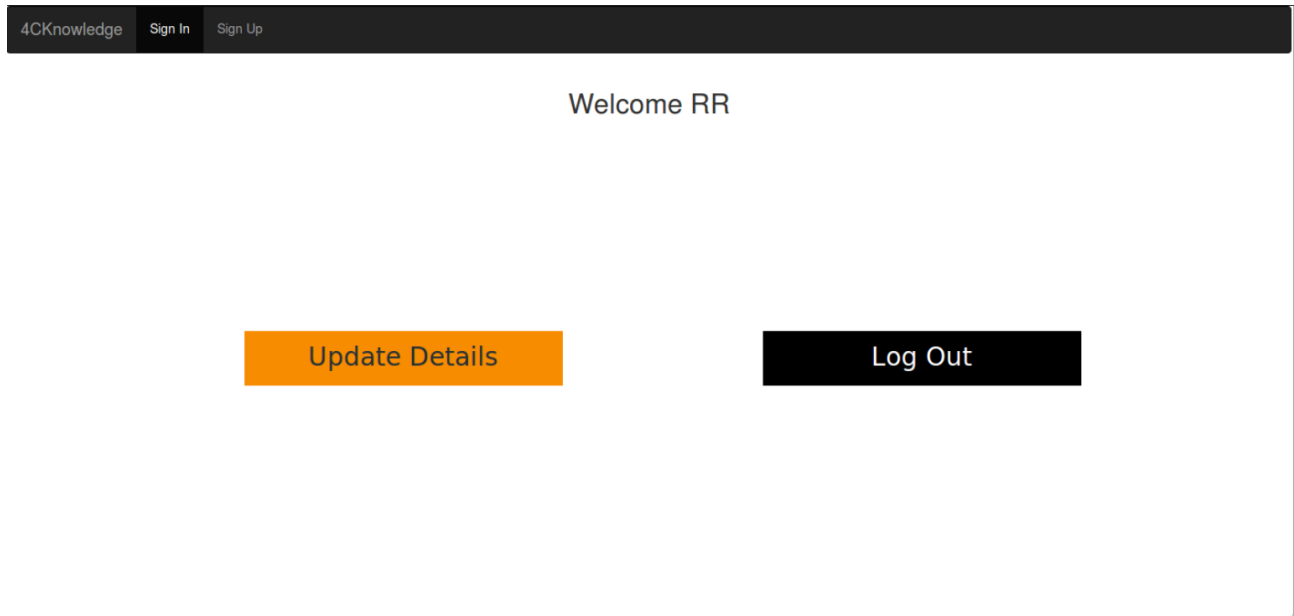


Figure 2.1.4 loggedUser.jsp

If an admin logs into the system they can view full name, permanent address, mobile number and interests of the member.

4CKnowledge

Sign In

Sign Up

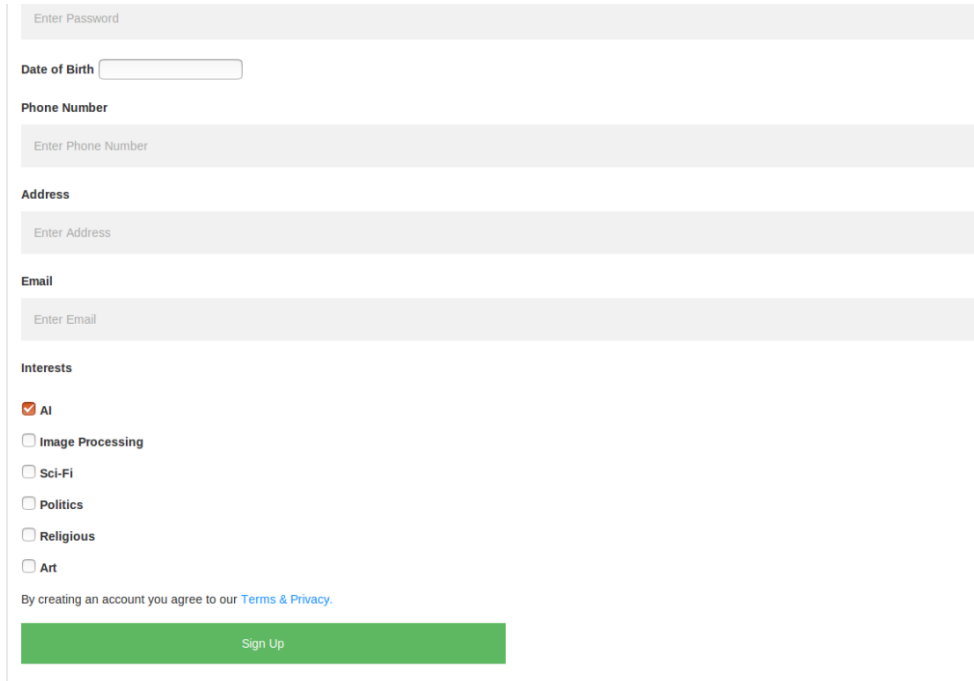
Welcome ADMIN

Logout

Name	Address	Email	Interests
logan	521/1, trello, Colombo - 06	tranquility@gmail.com	ai image-processing sci-fi politics religious art
rr	34, Wall Street, Amsterdam	peterpen@gmail.com	ai
tran	23, gffg, asdas	qwe123@gmail.com	ai politics

Figure 2.1.5 adminView.jsp page

- Sign Up page



The image shows a registration form titled 'Register.jsp page'. It contains several input fields and a list of interests. The fields are: 'Enter Password' (a wide grey bar), 'Date of Birth' (a small text box), 'Phone Number' (a wide grey bar with 'Enter Phone Number' text inside), 'Address' (a wide grey bar with 'Enter Address' text inside), and 'Email' (a wide grey bar with 'Enter Email' text inside). Below these is an 'Interests' section with a list of checkboxes: 'AI' (checked), 'Image Processing', 'Sci-Fi', 'Politics', 'Religious', and 'Art'. At the bottom, there is a line of text: 'By creating an account you agree to our [Terms & Privacy](#).' and a green 'Sign Up' button.

Figure 2.1.6 Register.jsp page

All pupils have the logout option which will end their respective sessions

2.2 Hardware Interfaces

Since this project is web based, it is best suited with google chrome and Linux Operating System and a computer of basic hardware specifications.

2.3 Software Interfaces

Ubuntu Linux Operating System

A browser which supports HTML, JavaScript (Preferably Google Chrome)

MySQL database

Java EE IDE-Eclipse

2.4 Communications Interfaces

For handling sessions the HTTP protocol was used in this project.

3. Functional Requirements

3.1 Use Case Diagram

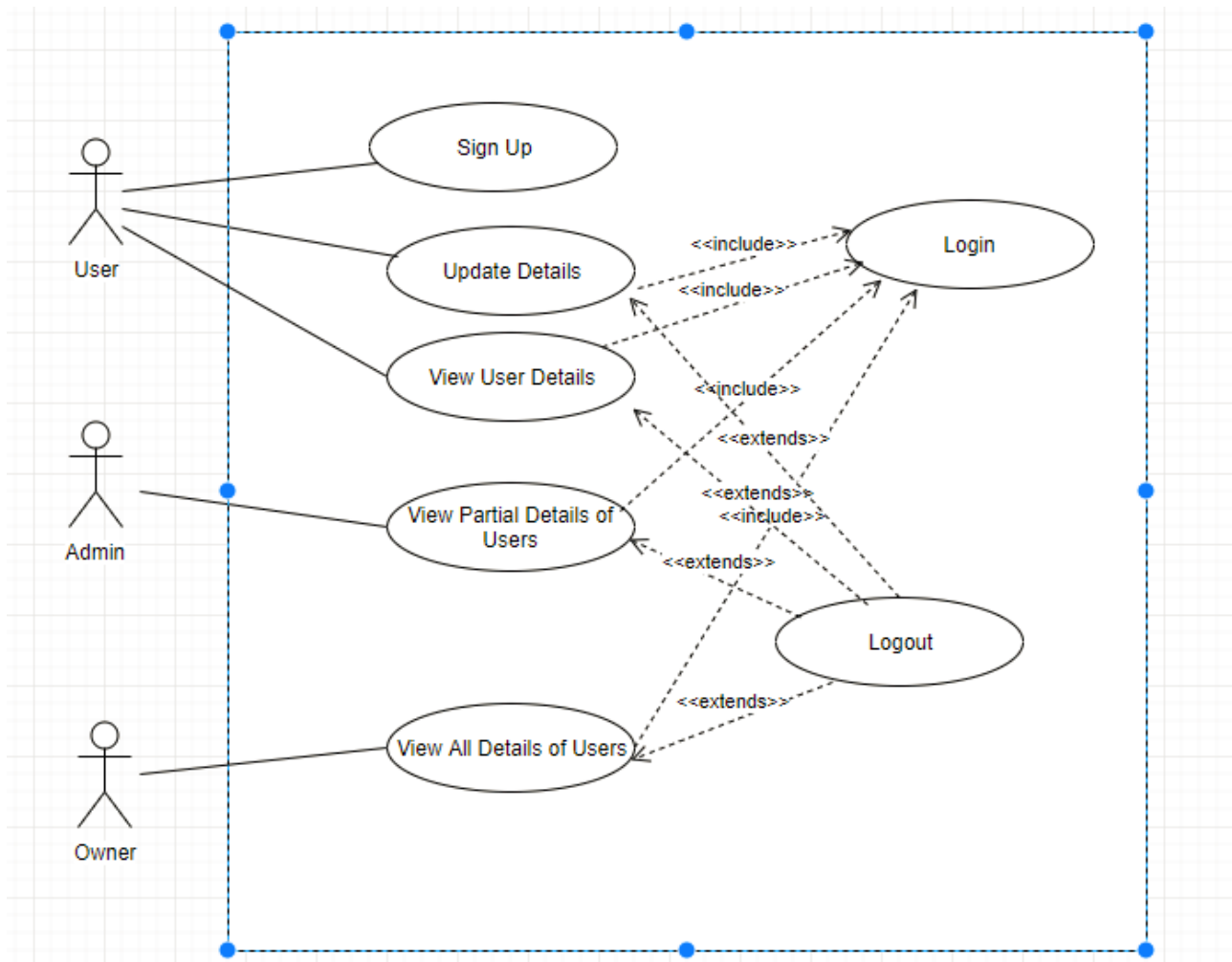


Figure 3.1.1

3.2 Use Case Scenarios

Use case name	Login	
Preconditions	Load the login page successfully. Database details loaded to the system.	
Success End conditions	Successfully logged into the system.	
Actors	Admin / Owner / Existing User	
Main Flow	Step	Actions
	1.	Enter username and password
	2.	Click Login

Table 3.2.1

Use case name	View all details of registered users.
Preconditions	Successfully Logged into the system as an owner. Database details loaded to the system.
Success End conditions	View all details of all the registered users.
Actors	Owner

Table 3.2.2

Use case name	View basic details of registered users.
Preconditions	Successfully Logged into the system as an admin. Database details loaded to the system.
Success End conditions	View partial details of all the registered users.
Actors	Admin

Table 3.2.3

Use case name	View personal details
Preconditions	Successfully Logged into the system as a registered user. Database details loaded to the system.
Success End conditions	View all personal details.
Actors	Existing User

Table 3.2.4

Use case name	Update personal details
Preconditions	Successfully Logged into the system as a registered user. Database details loaded to the system.
Success End conditions	Successfully update personal details.
Actors	Registered User

Table 3.2.5

Use case name	Register as a new user	
Preconditions	Load the login page successfully. Database details loaded to the system.	
Success End conditions	Successfully register as a user.	
Actors	User	
Main Flow	Step	Actions
	1.	Enter all personal details.
	2.	Successfully register as a user.

Table 3.2.6

4. Other Nonfunctional Requirements

4.1 Performance Requirements

Performance will not be an issue because all the queries have small data. There are no immediate delays in every action and response of the system. 95% of the transactions will be proceed in less than 2 second. In the case of searching it is done in the client side without from database. Therefore, it reduces the process time of searching. The system provides access to multiple users simultaneously.

4.2 Safety Requirements

The database is stored on the web MySQL therefore a safe backup of the database is maintained. Even hardware failures wouldn't lead to loss of data in database.

4.2 Security Requirements

This product was designed using the OOP concept therefore there exists basic encapsulation and data hiding methods. The passwords are encrypted using a key only known to the developers. Therefore, ensuring more safety from malicious hackers.

4.3 Software Quality Attributes

4.4.1 Reliability

The probability of system failure occurring is very less since it is a portion of a web app which contains only the views.

4.4.2 Maintainability

The document could be easier to the users who uses and maintains the application and the developers who wish to edit or develop further.

4.4.3 Usability

The interfaces are user friendly and easy to use by users from any technical background. The application is easy to handle with no delays. The interfaces are supportable for any devices are scalable.