

CICT INTERN

Software Requirements Specification

CICT-RRS

Research Repository System



Content

- 01** Introduction
- 02** Overall Description
- 03** External Interface Requirements
- 04** System Features
- 05** Other Nonfunctional Requirements
- 06** Other Requirements



Introduction

Software Requirements Specification (SRS) for the proposed Research Repository System (RRS) version 1.0 for Bulacan State University College of CICT , covering both software and hardware requirements.

This document aims to provide an understanding of the requirements of the RRS, focusing on the following stakeholders.

- **Developers** - offering developers a detailed view of the proposed project's development in accordance with its specifications.
- **Project Manager** - This documentation can offer project managers an idea of the resources they can allocate to the proposed project.
- **Tester** - The proposed project's requirements provide testers with a clear understanding of the testing process.

The proposed project aims to establish a repository for all research studies conducted within Bulacan State University College of CICT.

- The research studies are **stored for future generations**
- Assists researchers in **locating relevant papers** and **efficiently collecting respondents** for their studies.

Additionally, the project is expected to benefit the following stakeholders, directly or indirectly:

Accesible

Gather Respondents

Acknowledge

CICT-Faculty



CICT-Students



Overall Description

The proposed system was meant to be a solution for faster data gathering; storing research paper of CICT students and CICT faculty members

Product Functions

- Store and disseminate research studies
- Log-in the student and/or faculty member
- Log-out the student and/or faculty member
- Provide research questionnaire
- Give points for students to view research studies they need

User Classes and Characteristics

- **Students** can access research studies but need specific points. They can upload questionnaires to accumulate respondents and answer to gain more points.
- **Faculty members** can answer and upload questionnaires, but no longer need to use points to view research studies.
- **Admins** possess advanced technical skills, manage the system, generate, print, grant access to students, and review system reports.

Operating Environment

The proposed project is perceived to be operating well at the following minimum prescribed environment:

	CLIENT	SEVER
CPU	1.7 GHz Dual-Core	3.0Ghz Quad-Core
RAM	4GB	16GB
HDD	500GB	4TB
OS	Windows 10	Windows Server 2019

The proposed project should be attached to a reliable server that preferably has a reliable internet connection. The project is heavily reliant on this, and will be inoperable if network issues arise.

External Interface Requirements

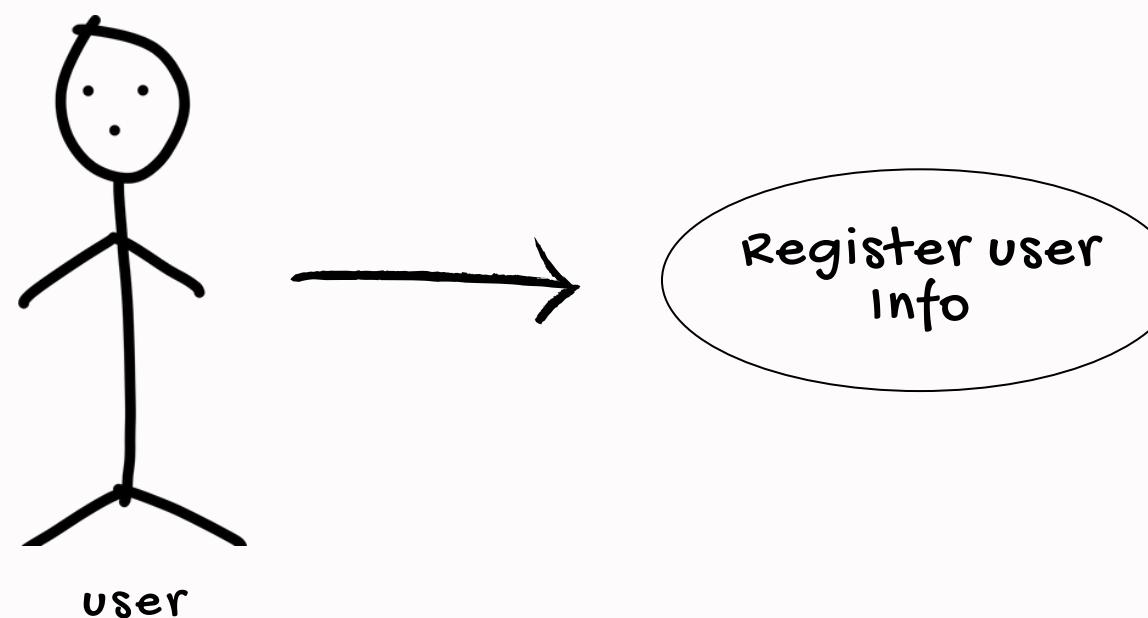
Software Interface

Each client station is preferably installed with a Windows 10 operating system and will communicate with the server that has a Windows Server 2019 OS. For maximum compatibility, storage and retrieval of data will be interfaced with MS SQL.

System Features

Personal Information Registration

The system collects and stores personal information from the students and faculty members, comparing it with their credentials in a server database.



- Users register their **personal information**.
- System asks the users to **agree with data privacy terms**
- System will **save login credentials** once the users agree and **verified** to be a faculty or enrolled student of the university.

Figure 1. Use Case for Personal Information Registration

Functional Requirements

The user should provide important information, these are:

REQ-1.1:

- Student/Employee Number
- Last Name
- First Name
- Middle Name (if applicable)
- College/Department (Predefined choices, if applicable)
- Rank (Predefined choices, if applicable)

- Year
- Section
- Course
- Birthdate
- Birthplace
- Email
- Contact Number

- Complete Address
- House/Unit Number
 - Block
 - Street
 - Barangay
 - City/Town
 - Province
 - Zip Code

REQ-1.2:

- The system should verify the user information.

REQ-1.3:

- The system will only save the user only if they agree with the data privacy terms and pass the verification.

Log-in and Log-out

This feature will be used by the students/faculty member to log-in and log-out of the system.

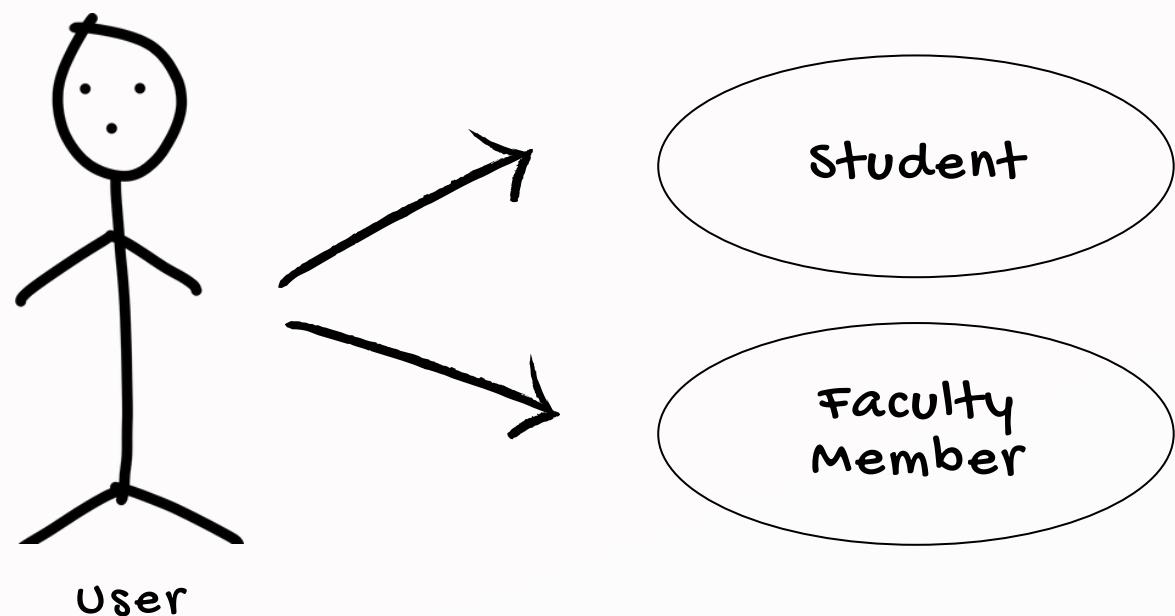


Figure 2. Use Case for Log-in and Log-out

REQ-2.1:

- The user should choose between Student or Faculty login options.

REQ-2.2:

- After choosing an option, users should login into their account using their login credentials

REQ-2.3:

- The system should display a message if the authentication is successful

REQ-2.4:

- An error message should be displayed if the system encounters one of the following:
 - Login error
 - Logged in as student
 - Logged in as faculty

Research Paper Viewing

This feature enables the users to view study of their choice.

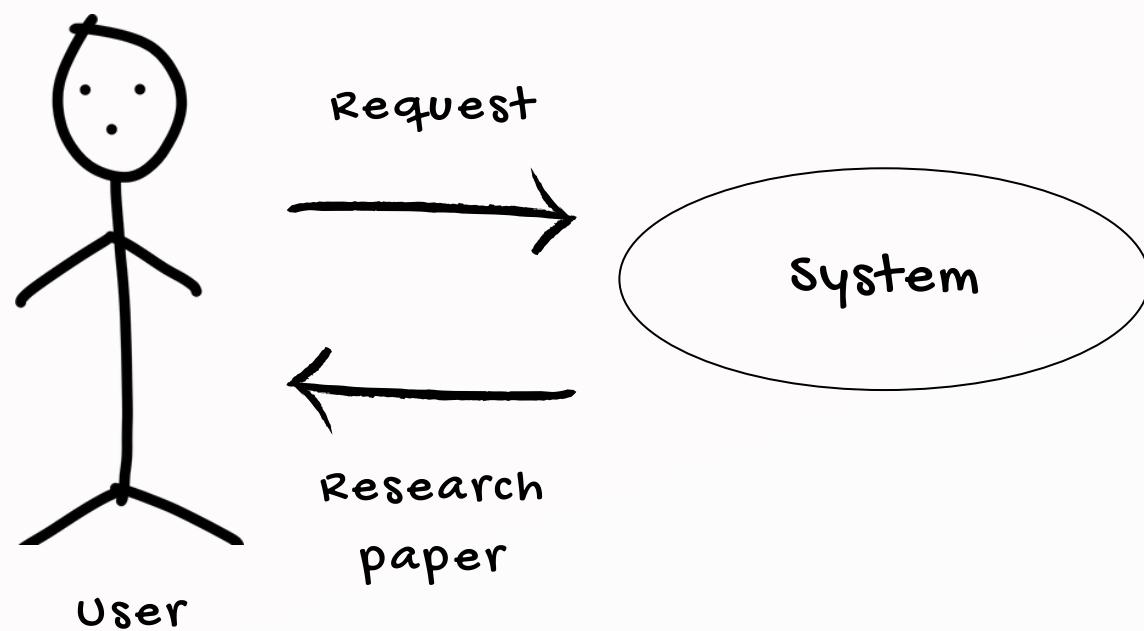


Figure 3. Use Case for Research Study Viewing

System admin selects a report type:

- Student / Faculty Member Report
 - This report shows the activity of the selected user
- Research Studies Report
 - This report shows the names of the users who viewed the study
- Top Study Report
 - This report shows the top study viewed by the users

REQ-3.1:

- Viewing of studies have requirements:
 - Account type should be Faculty or Admin
 - If student, accumulating points increases the studies you can view

Reports Generation

This feature enables the system to generate reports based on user's activity.

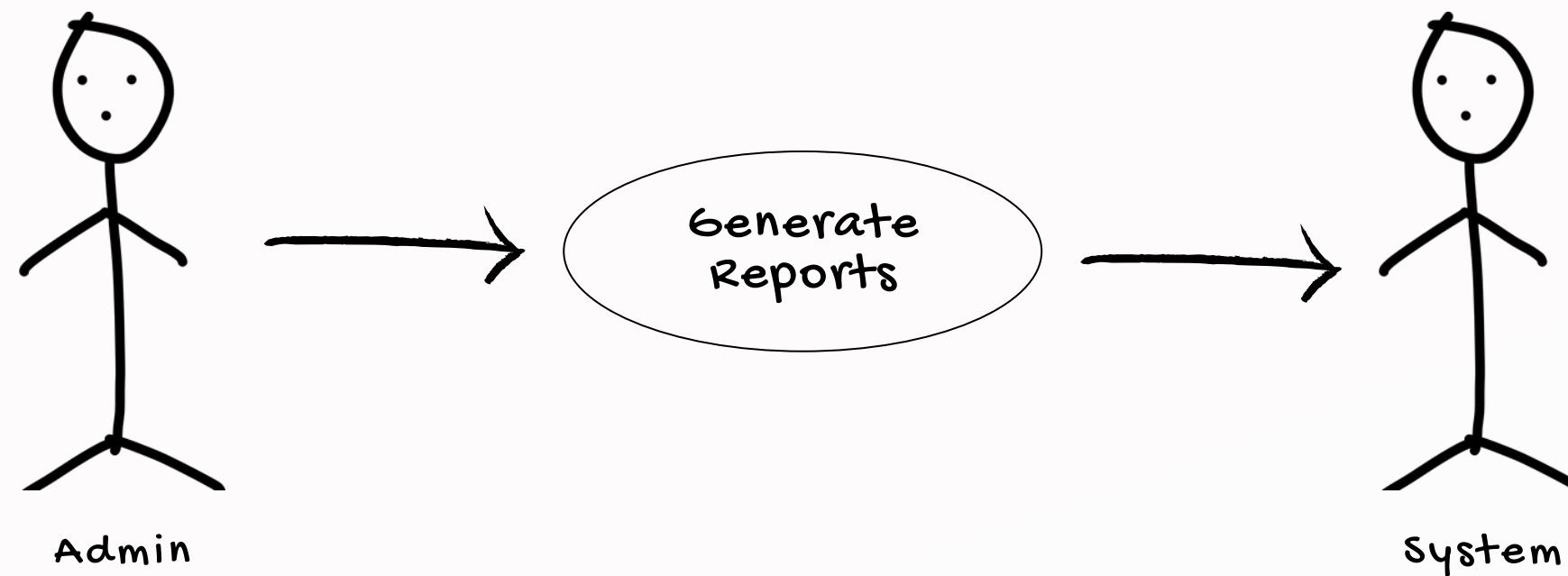


Figure 4. Use Case for Reports Generation

System admin selects a report type:

- Student / Faculty Member Report
 - This report shows the activity of the selected user
- Research Studies Report
 - This report shows the names of the users who viewed the study
- Top Study Report
 - This report shows the top study viewed by the users

REQ-4.1:

- There should be three types of reports the system admin can choose from:
 - Student / Faculty Member Report
 - Research Studies Report
 - Top Study Report

REQ-4.2:

- For the Student / Faculty Member Report, the following details are needed:
 - Student / Faculty Name

REQ-4.3:

For the Research Studies Report, the following details are needed:

- Research Paper Title

REQ-4.4:

- For the Top Study Report, the following details are needed:
 - Period (date)

REQ-4.5:

- Only the system administrator can generate reports

Uploading and Answering Questionnaire

This feature allows users to upload questionnaire for their research and to answer questionnaire to gain points.

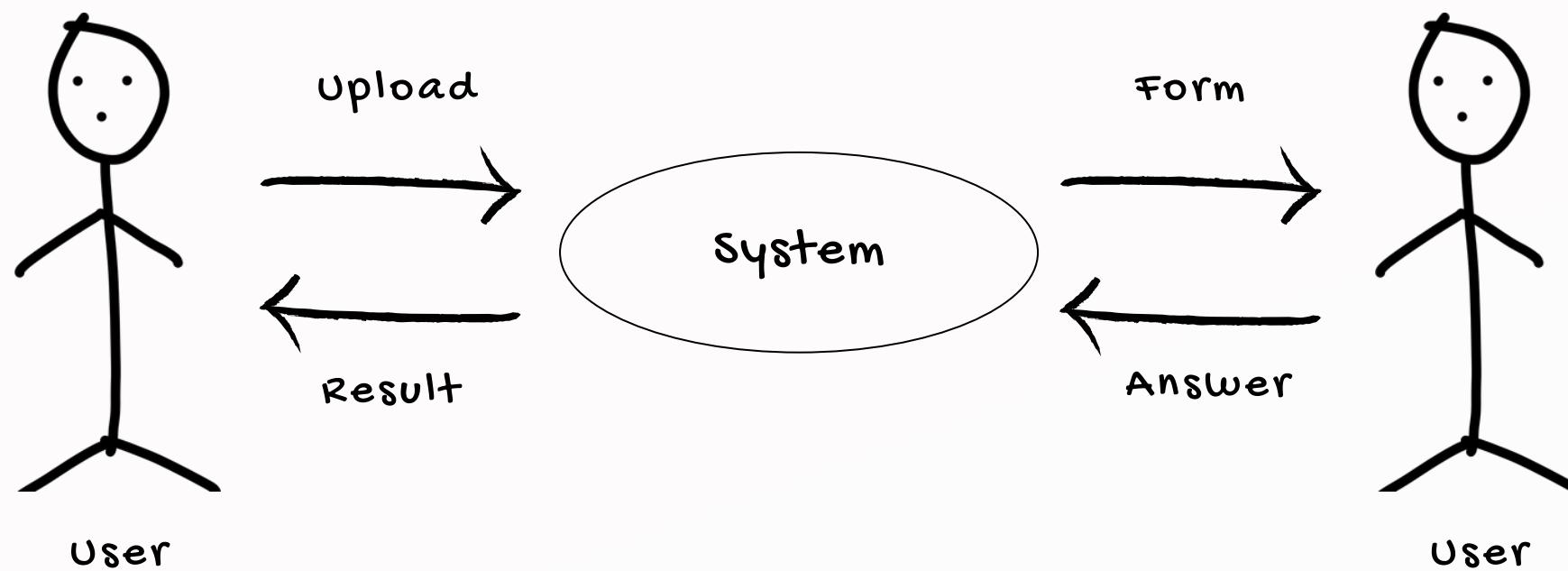


Figure 5. Use Case for Uploading and Answering Questionnaire

- User will choose between Upload or Answer questionnaire:
 - **Upload**
 - They can upload their questionnaire to gather respondents remotely.
 - **Answer**
 - By answering, they help researchers gain more respondents and students earn points that they can use to view studies they like.

REQ-5.1:

- To upload a questionnaire, the researcher should provide:
 - Questions
 - Target respondents
 - Deadline

Other Nonfunctional Requirements

Performance Requirements

As the proposed project is expected to be heavily used, it is perceived that the system should be able to handle huge data traffic during the following peak hours:

- 6:30 AM to 6:00 PM
- 10:00 PM to 5:00 AM

Security Requirements

The proposed project has to operate by data privacy rules, limit access to student and faculty member data to authorized individuals, and employ study screenshots and watermarks to avoid plagiarism.

Software Quality Attributes

The following software quality attributes are prescribed to be evident in the system:

- User-Friendliness
 - The proposed project should exhibit a user interface that is very user friendly, as the intended users are a diverse demographic.
- Availability
 - The system should be available always.
- Maintainability
 - The system should be easy to maintain and should be easily accessible once it is up and running again.

Business Rules

- Students/Faculty members should be able to upload, view, and answer questionnaires; and be able to view research studies stored in the system.
- System Admin are the ones who can generate reports. They can be a personnel from the IT or MIS department.
- Super Admin is the one responsible for the maintenance of the system. He can also be the System Admin.

Other Requirements

User Interface

Landing Page

Where users can view more information about the system such as home, features and about.



Research Repository System

Research findings are valuable assets that deserve to be preserved and made accessible to a wider audience.

Get Started

Features

Benefits using our website

- Find Studies**
Easy to find related studies for your research.
- Gather Respondents**
Easily upload your questionnaires for your research studies.
- Repository**
Long-term preservation of research studies for future researchers.

About Us

College of Information and Communication Technology - Research Repository System
CICT-RRS is designed to assist the entire college community with their research endeavors. Our platform empowers students and faculty members alike to efficiently discover pertinent topics for their studies, anytime and anywhere. Additionally, researchers can utilize our website to efficiently gather respondents by uploading their questionnaires, streamlining the data collection process. With this website, the college can now preserve all completed studies conducted by the entire college community, ensuring that valuable research contributions are archived and accessible for future reference and knowledge dissemination.

Popular Studies

Thumbnail	Date	Title	Description	Tags
	November 16, 2021	Blood Bank Management System	System designed to streamline the process of blood donation, collection, testing, storage, and distribution.	Blood Medical
	September 24, 2023	Placeholder Title	Placeholder description.	Placeholder Tags
	August 24, 2023	Placeholder Title	Placeholder description.	Placeholder Tags

© 2024 TEAMS NAME. All rights reserved. [Facebook](#) [Instagram](#) [Twitter](#) [YouTube](#)

User Interface

Page where users (Admin and CICT Students and Faculty) login their existing accounts.

Log In



CICT-RRS

Log In

Enter Student No.

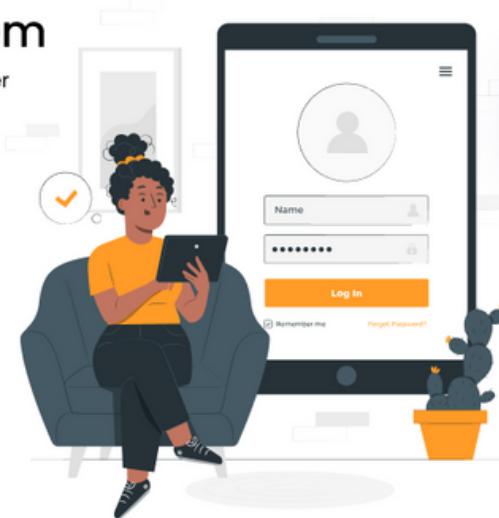
Password

Forgot password ?

Log In

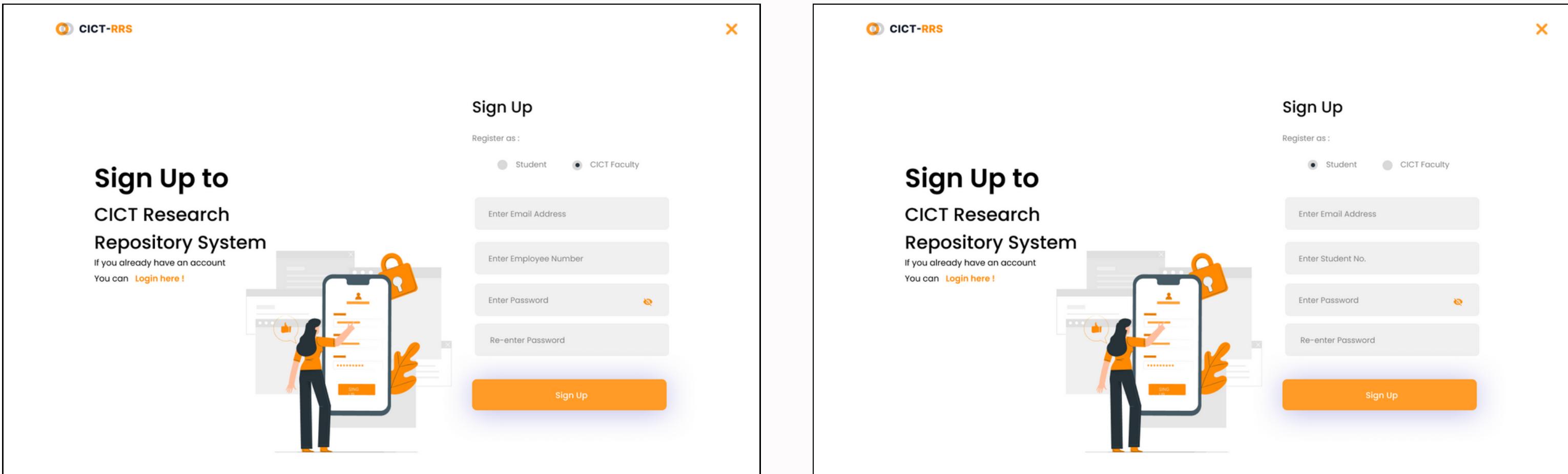
Log In to
CICT Research
Repository System

If you don't have an account register
You can [Register here !](#)



• • • •
• • • •
• • • •
• • • •

User Interface



Sign Up

Page where users can create an account to use the system.

- A 5x5 grid of black dots arranged in five rows and five columns.



THANK YOU

